

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P319703

Luminaire Tested: **GAN-SA9D-740-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69372 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

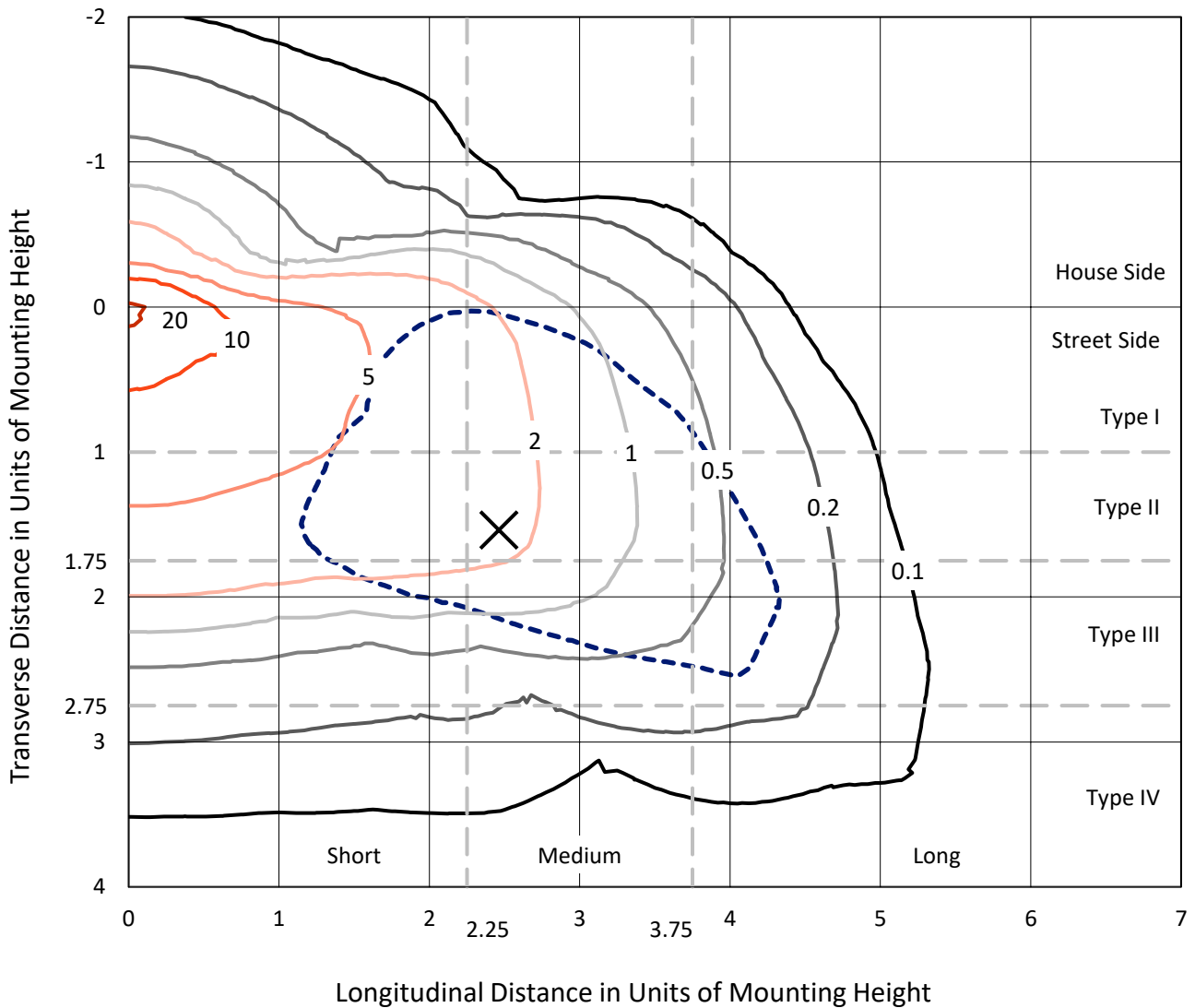
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

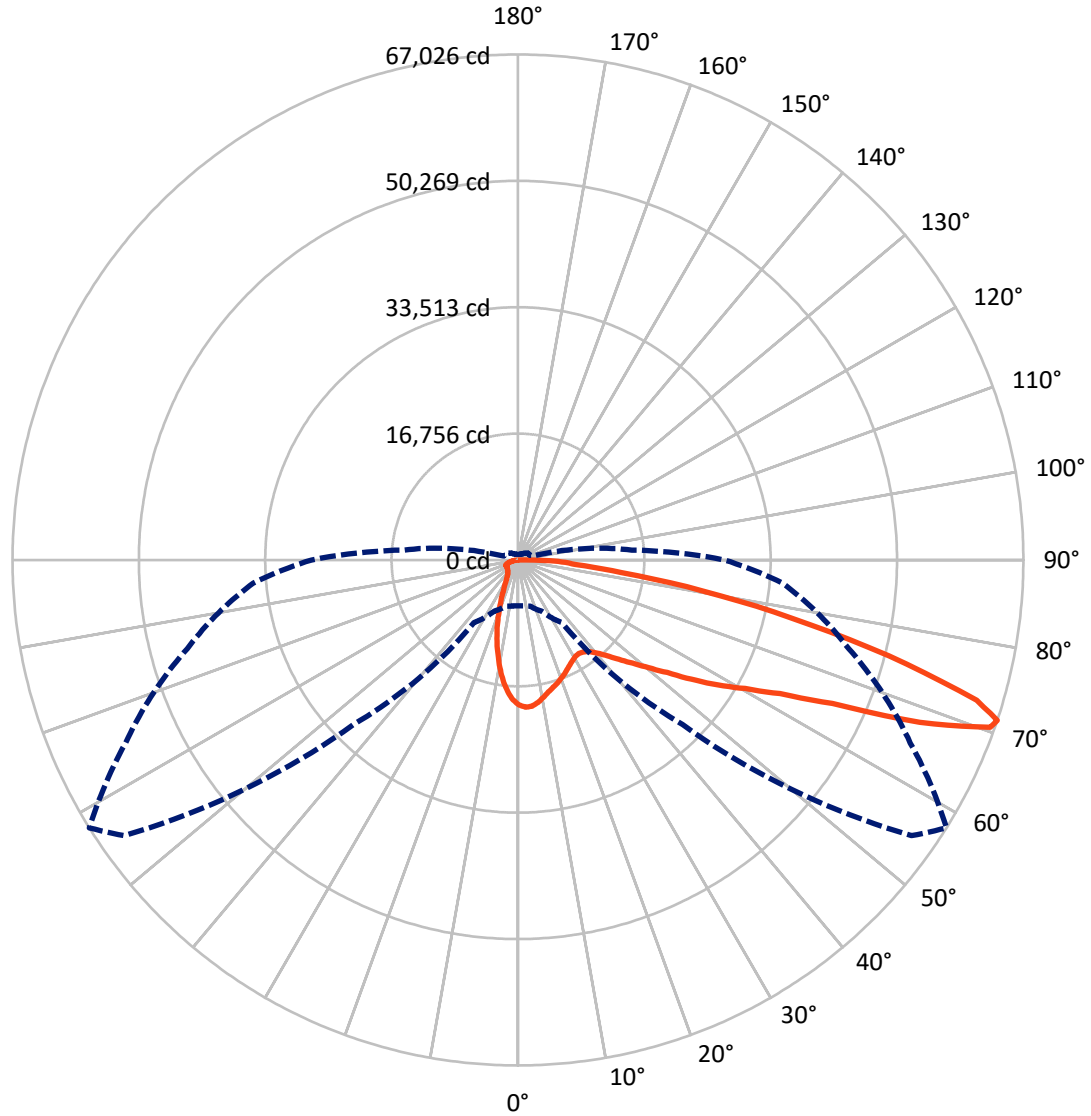
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 21.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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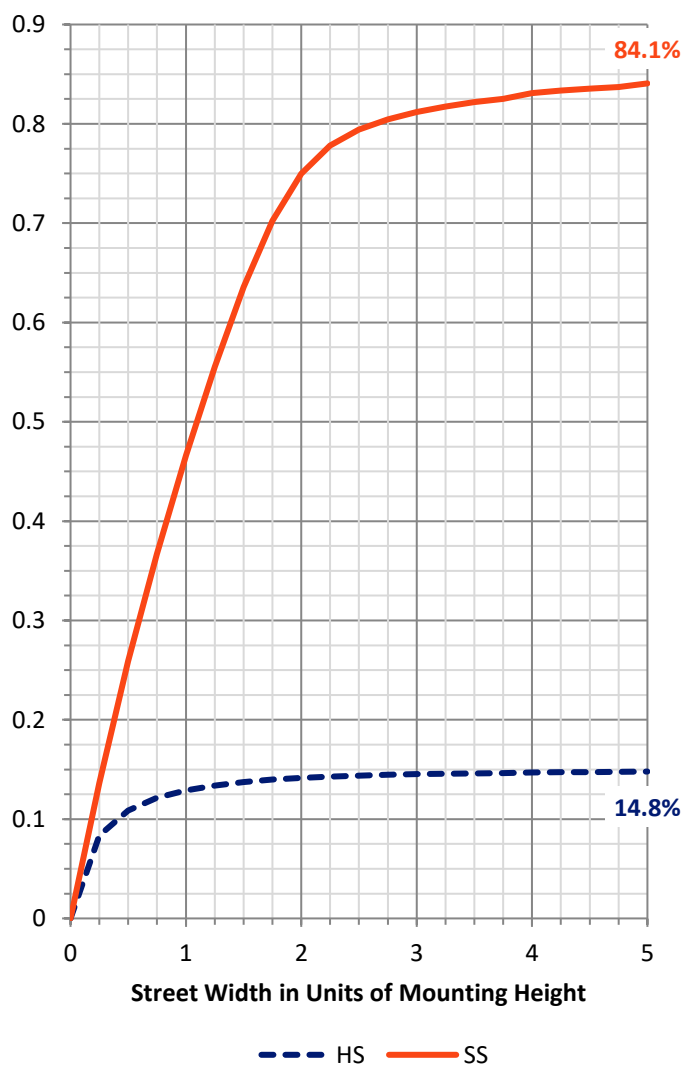
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10371.6	0.0	10371.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	59000.4	0.0	59000.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	69372.0	0.0	69372.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1658.2	2.4
10°-20°	3687.1	5.3
20°-30°	4686.0	6.8
30°-40°	5969.0	8.6
40°-50°	8464.3	12.2
50°-60°	13098.8	18.9
60°-70°	17832.4	25.7
70°-80°	11896.3	17.1
80°-90°	2079.9	3.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	69372.0	100.0
0°-180°	69372.0	100.0

Coefficient of Utilization



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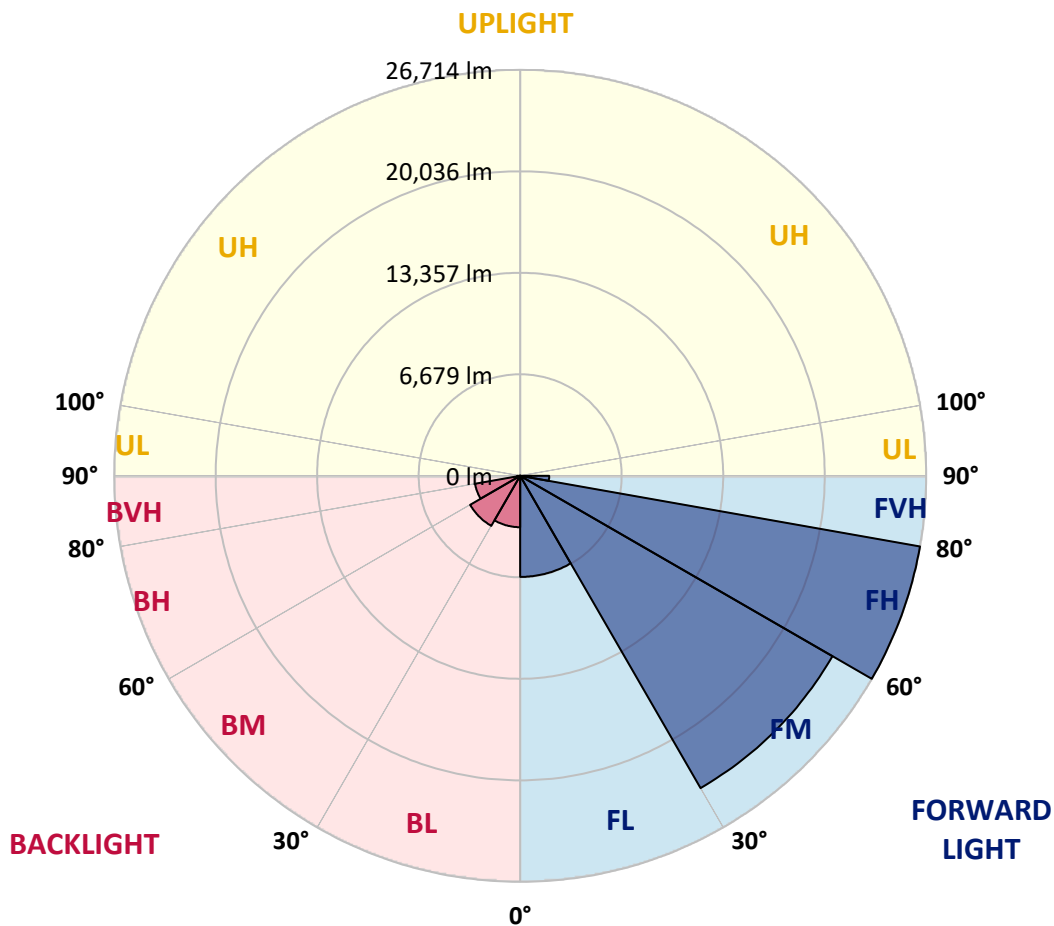
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6650.4	9.6			
FM (30°-60°)	23728.6	34.2			
FH (60°-80°)	26714.3	38.5			G5
FVH (80°-90°)	1907.1	2.7			G5
BL (0°-30°)	3380.8	4.9	B4/5000		
BM (30°-60°)	3803.6	5.5	B3/5000		
BH (60°-80°)	3014.4	4.3	B4/5000		G4/5000
BVH (80°-90°)	172.8	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	19220.7	19220.7	19220.7	19220.7	19220.7	19220.7	19220.7	19220.7	19220.7	19220.7	19220.7
2.5°	19730.6	19704.0	19713.6	19694.3	19648.4	19602.5	19534.8	19546.9	19452.7	19312.5	19138.5
5°	19358.4	19348.8	19421.2	19462.3	19496.2	19469.6	19450.2	19474.4	19336.7	19143.4	18841.3
7.5°	18577.9	18471.6	18563.4	18701.1	18831.6	18930.7	19061.2	19078.1	18991.1	18788.1	18391.8
10°	17468.7	17367.2	17502.6	17717.6	17978.6	18215.4	18478.8	18527.2	18544.1	18360.4	17879.5
12.5°	16318.5	16241.2	16376.5	16678.5	17111.1	17476.0	17896.5	17968.9	18118.8	17995.5	17405.9
15°	15289.1	15260.1	15424.4	15721.6	16219.4	16777.6	17384.2	17517.1	17770.8	17729.7	17036.2
17.5°	14399.8	14392.6	14518.2	14829.9	15380.9	16086.5	16874.3	17099.0	17476.0	17524.3	16731.7
20°	13737.7	13723.2	13810.2	14039.7	14607.6	15407.5	16323.3	16632.6	17176.3	17345.5	16417.6
22.5°	13382.5	13380.0	13382.5	13491.2	13955.2	14699.4	15786.9	16163.8	16883.9	17202.9	16069.6
25°	13322.1	13314.8	13261.6	13249.6	13513.0	14107.4	15255.2	15670.9	16606.1	17103.8	15738.5
27.5°	13479.1	13488.8	13418.7	13305.1	13358.3	13718.4	14793.7	15238.3	16383.7	17084.5	15509.0
30°	13805.3	13800.5	13740.1	13621.7	13517.8	13573.4	14465.0	14909.7	16233.9	17169.1	15351.9
32.5°	14165.4	14192.0	14179.9	14114.7	13960.0	13737.7	14366.0	14800.9	16190.4	17372.1	15284.2
35°	14598.0	14627.0	14713.9	14764.7	14583.5	14225.8	14578.6	14955.6	16316.1	17753.9	15393.0
37.5°	15008.8	15083.7	15327.7	15542.8	15388.1	14989.4	15144.1	15412.3	16705.1	18355.6	15685.4
40°	15482.4	15547.6	15946.4	16403.1	16378.9	15965.7	16055.1	16233.9	17391.4	19218.3	16214.6
42.5°	15948.8	16079.3	16656.8	17304.4	17490.5	17125.6	17268.2	17362.4	18358.0	20361.3	17137.7
45°	16569.8	16710.0	17512.2	18292.8	18727.7	18522.3	18749.5	18785.7	19573.5	21917.5	18478.8
47.5°	17509.8	17669.3	18604.5	19423.7	20088.2	20109.9	20484.5	20470.0	21091.0	23698.4	20167.9
50°	18974.2	19203.8	19969.8	20735.8	21542.9	21992.4	22492.6	22422.5	22910.6	25595.4	22113.2
52.5°	20892.9	20999.2	21567.1	22132.5	23135.4	24143.1	24860.7	24797.9	24974.3	27545.5	24321.9
55°	22881.6	22961.4	23195.8	23505.1	24853.5	26496.7	28014.3	27915.2	27468.1	29570.5	26504.0
57.5°	24669.8	24831.7	24993.7	25121.7	26583.7	28956.7	31240.3	31247.5	30174.6	31755.0	28758.5
60°	24947.7	25090.3	26160.8	27170.9	29543.9	32238.3	34693.4	34620.9	32975.3	34125.5	31271.7
62.5°	22052.8	22374.2	24162.4	26849.5	32395.3	38240.8	39098.6	39009.2	36324.5	37047.1	34198.0
65°	15803.8	16168.7	18326.6	22364.5	31013.1	44854.7	47048.9	45845.5	40891.7	40640.4	37624.6
67.5°	9117.4	9204.4	10139.5	13382.5	23613.8	45200.3	59177.2	57492.9	47984.0	44717.0	39301.6
70°	6742.0	6739.6	6961.9	8235.4	12778.3	36890.0	64945.3	66455.6	55451.0	46058.1	36931.1
71°	6096.8	6104.0	6352.9	7495.9	10120.2	30877.8	63720.2	67025.9	57418.0	45396.0	35215.4
72.5°	5214.8	5238.9	5584.5	6722.6	8513.3	21294.0	58442.6	63604.2	58350.7	43762.5	32530.7
75°	3955.8	4011.4	4489.8	5666.6	7781.1	10799.2	42892.5	50789.6	51835.9	38615.3	24172.0
77.5°	2822.4	2885.3	3426.6	4765.3	7396.8	8138.7	28724.7	37047.1	38146.6	24747.2	10903.2
80°	1783.4	1858.3	2266.7	3791.5	6949.8	7727.9	18051.1	24901.8	20801.1	7918.8	2774.1
82.5°	1046.3	1104.3	1406.4	2476.9	5676.3	7442.8	10620.4	13802.9	8095.2	2392.3	1261.4
85°	606.5	633.1	877.2	1578.0	4122.5	7024.7	7802.8	7715.8	3513.6	1169.6	596.9
87.5°	282.7	314.1	519.5	824.0	2288.4	5091.5	6166.9	5328.3	2184.5	548.5	280.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	19220.7	19220.7	19220.7	19220.7	19220.7	19220.7	19220.7	19220.7	19220.7	19220.7	19220.7
2.5°	19053.9	19012.9	18841.3	18689.1	18529.6	18321.8	18092.2	18063.2	17923.0	17949.6	17901.3
5°	18677.0	18573.1	18159.8	17785.3	17343.1	16946.8	16516.6	16318.5	16033.3	16014.0	15941.5
7.5°	18138.1	17944.8	17304.4	16594.0	15883.5	15206.9	14537.5	14097.7	13648.3	13457.4	13440.5
10°	17531.6	17202.9	16260.5	15209.3	14184.7	13196.4	12239.5	11531.4	10893.5	10591.4	10579.3
12.5°	16956.4	16470.7	15177.9	13747.4	12345.8	11065.1	9752.9	8822.6	8022.7	7754.5	7640.9
15°	16468.3	15784.4	14124.3	12295.0	10593.8	8815.3	7321.9	6343.3	5603.8	5347.7	5299.3
17.5°	15994.7	15115.1	13044.2	10828.2	8771.8	6816.9	5321.1	4593.7	4199.8	4095.9	4093.5
20°	15523.5	14426.4	11915.7	9327.6	7010.2	5098.8	4091.1	3764.9	3632.0	3619.9	3600.6
22.5°	14989.4	13696.6	10729.2	7822.1	5470.9	4008.9	3477.3	3346.8	3329.9	3373.4	3373.4
25°	14489.2	12971.7	9525.8	6348.1	4255.4	3344.4	3105.2	3078.6	3124.5	3201.8	3209.1
27.5°	14022.8	12273.3	8351.4	5038.4	3409.7	2945.7	2846.6	2878.0	2960.2	3049.6	3052.0
30°	13638.6	11613.6	7210.8	3970.3	2880.4	2648.5	2631.5	2694.4	2783.8	2853.9	2870.8
32.5°	13341.4	11050.6	6108.9	3192.2	2534.9	2426.1	2440.6	2493.8	2549.4	2588.1	2614.6
35°	13203.6	10567.3	5091.5	2692.0	2315.0	2254.6	2273.9	2302.9	2327.1	2356.1	2377.8
37.5°	13227.8	10192.7	4182.9	2380.2	2167.6	2136.2	2136.2	2136.2	2136.2	2150.7	2153.1
40°	13452.5	9977.6	3443.5	2182.1	2068.5	2034.7	2008.1	1983.9	1964.6	1974.3	1969.4
42.5°	14027.7	9958.3	2902.2	2056.4	1988.8	1933.2	1880.0	1846.2	1822.0	1831.7	1836.5
45°	15003.9	10200.0	2537.3	1967.0	1913.9	1829.3	1761.6	1725.4	1708.5	1739.9	1744.7
47.5°	16267.7	10726.8	2315.0	1901.8	1843.8	1732.6	1660.1	1626.3	1631.1	1677.0	1689.1
50°	17896.5	11582.2	2208.7	1860.7	1795.4	1650.5	1575.5	1546.5	1561.0	1626.3	1640.8
52.5°	19684.6	12814.6	2220.7	1848.6	1764.0	1590.0	1510.3	1476.5	1500.6	1561.0	1573.1
55°	21748.3	14295.9	2421.3	1865.5	1718.1	1551.4	1457.1	1399.1	1418.5	1474.1	1483.7
57.5°	24041.6	15992.3	2824.9	1860.7	1660.1	1515.1	1401.6	1314.6	1329.1	1362.9	1372.6
60°	26429.0	18041.4	3450.7	1875.2	1633.5	1471.6	1326.6	1217.9	1213.1	1242.1	1246.9
62.5°	29295.0	20412.0	4166.0	1884.9	1650.5	1416.1	1227.6	1121.2	1106.7	1114.0	1118.8
65°	32247.9	22127.7	3897.8	1846.2	1703.6	1370.1	1140.6	1027.0	1000.4	995.6	998.0
67.5°	32339.8	20288.8	2733.0	1768.9	1725.4	1346.0	1075.3	947.3	903.8	886.8	884.4
70°	29002.6	16482.8	2128.9	1686.7	1638.4	1307.3	1014.9	882.0	816.8	790.2	787.8
71°	27373.9	15173.1	2017.8	1645.6	1573.1	1268.7	988.3	853.0	785.4	756.4	751.5
72.5°	24819.7	13602.4	1882.4	1580.4	1447.5	1169.6	937.6	811.9	741.9	708.0	700.8
75°	17811.9	8895.1	1616.6	1408.8	1198.6	932.8	821.6	729.8	669.4	628.3	623.5
77.5°	6862.8	3540.1	1222.7	1172.0	918.3	729.8	676.6	630.7	587.2	546.1	543.7
80°	2121.7	1582.8	891.7	882.0	664.5	543.7	526.8	514.7	497.8	454.3	444.6
82.5°	1133.3	908.6	613.8	570.3	435.0	362.5	381.8	386.6	389.1	343.1	338.3
85°	541.3	480.9	345.6	323.8	253.7	203.0	234.4	253.7	256.1	210.2	195.7
87.5°	258.6	251.3	161.9	123.2	94.2	67.7	82.2	101.5	111.2	79.7	70.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)