

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: P319383

Luminaire Tested: **GAN-SA9D-740-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67952 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

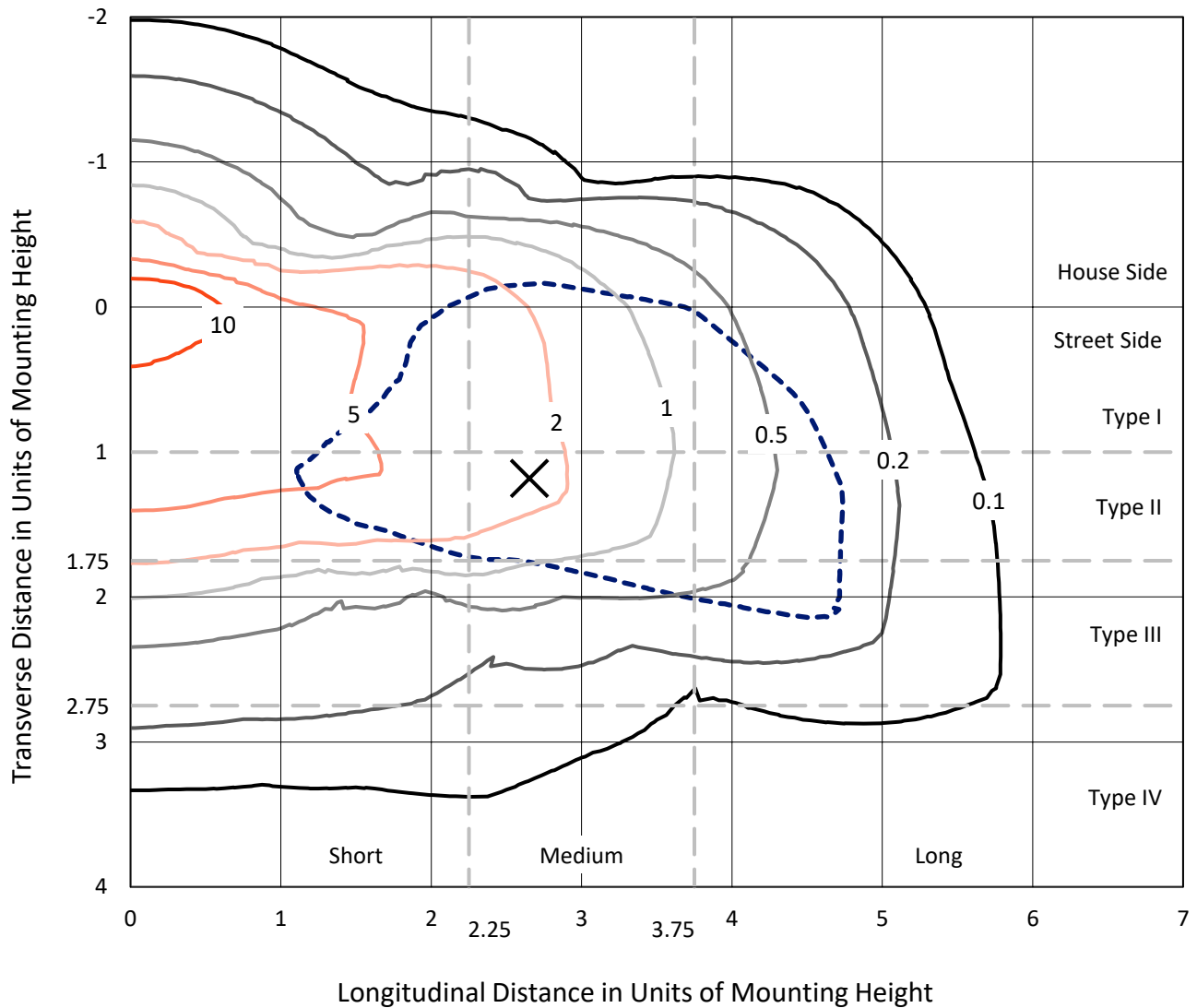
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

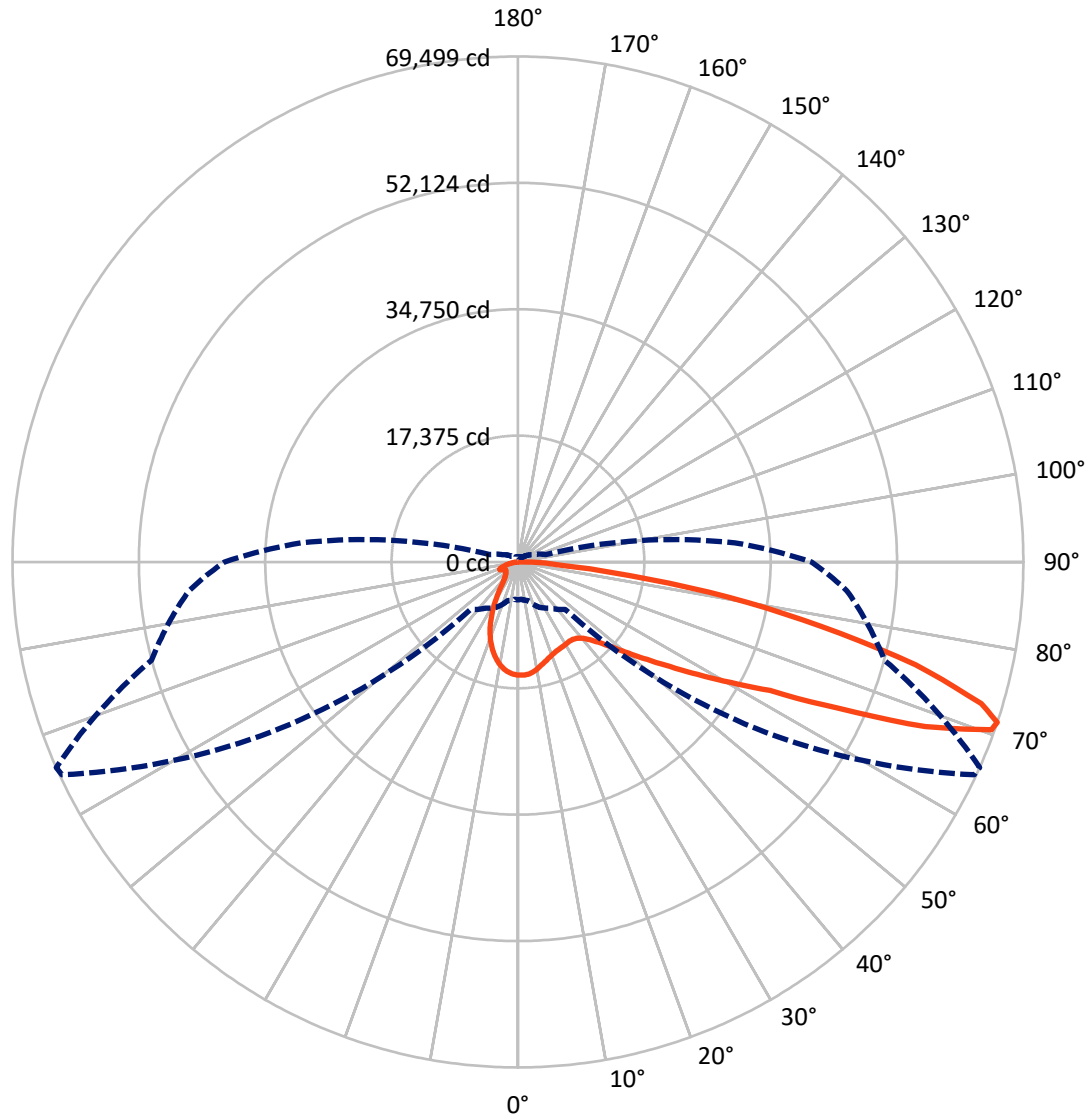
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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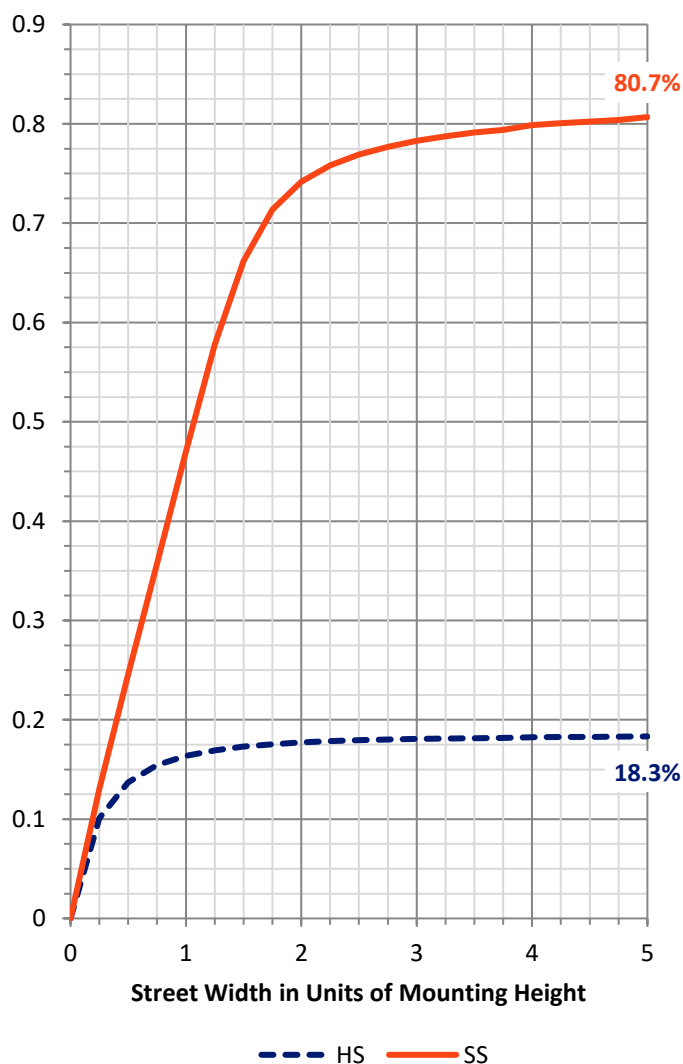
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12593.4	0.0	12593.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	55358.6	0.0	55358.6
	% Fixture	81.5	0.0	81.5
Total	Lumens	67952.0	0.0	67952.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1370.2	2.0
10°-20°	3286.4	4.8
20°-30°	4414.4	6.5
30°-40°	5807.1	8.5
40°-50°	8447.8	12.4
50°-60°	13196.4	19.4
60°-70°	16530.7	24.3
70°-80°	12609.2	18.6
80°-90°	2289.7	3.4
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°	67952.0	100.0
0°-180°	67952.0	100.0

Coefficient of Utilization



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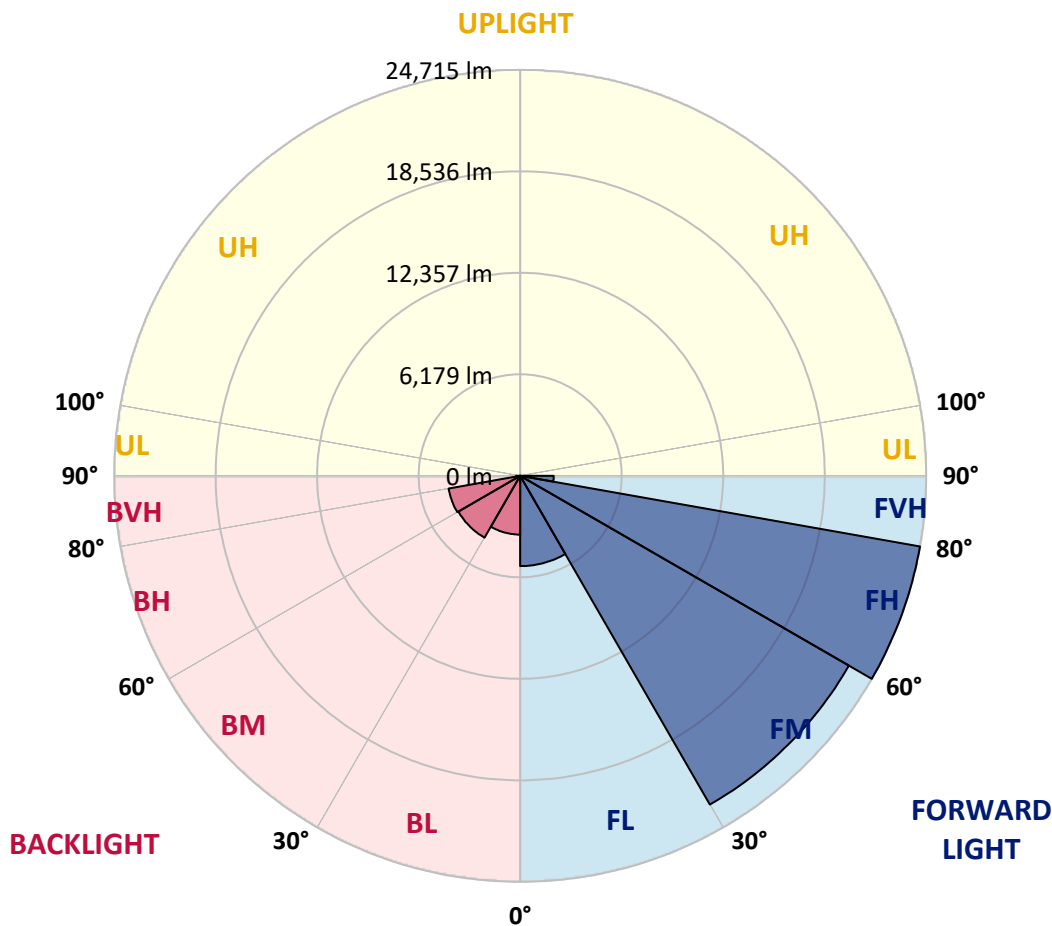
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5494.9	8.1			
FM (30°-60°)	23107.1	34.0			
FH (60°-80°)	24714.9	36.4			G5
FVH (80°-90°)	2041.8	3.0			G5
BL (0°-30°)	3576.2	5.3	B4/5000		
BM (30°-60°)	4344.3	6.4	B3/5000		
BH (60°-80°)	4425.0	6.5	B4/5000		G4/5000
BVH (80°-90°)	247.9	0.4			G3/500
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°	65°	66°	75°	85°
0°	15566.5	15566.5	15566.5	15566.5	15566.5	15566.5	15566.5	15566.5	15566.5	15566.5	15566.5
2.5°	15277.9	15254.5	15324.8	15397.6	15425.7	15472.6	15543.0	15582.9	15580.6	15587.6	15564.1
5°	14264.4	14233.9	14374.7	14489.6	14710.2	14958.8	15261.5	15477.3	15482.0	15604.0	15636.9
7.5°	13304.8	13283.7	13445.6	13630.9	13886.7	14266.7	14757.1	15221.6	15249.8	15580.6	15695.5
10°	12535.3	12530.6	12687.8	12889.6	13187.5	13612.2	14175.2	14855.6	14897.8	15468.0	15704.9
12.5°	11934.7	11944.1	12080.2	12310.1	12624.5	13067.9	13677.9	14445.0	14513.1	15289.6	15650.9
15°	11491.3	11528.8	11639.1	11871.4	12181.0	12631.5	13257.9	14065.0	14168.2	15090.2	15620.4
17.5°	11237.9	11280.1	11357.6	11549.9	11840.9	12274.9	12868.5	13752.9	13846.8	14937.7	15622.8
20°	11162.8	11198.0	11242.6	11359.9	11606.2	12000.4	12561.1	13471.4	13572.3	14815.7	15646.3
22.5°	11310.6	11336.4	11341.1	11331.7	11481.9	11803.3	12338.2	13264.9	13372.9	14736.0	15662.7
25°	11627.4	11662.5	11636.7	11549.9	11500.7	11697.7	12223.3	13128.9	13236.8	14677.3	15629.8
27.5°	12103.6	12108.3	12087.2	11974.6	11742.3	11709.5	12188.1	13049.1	13152.3	14609.3	15561.8
30°	12751.1	12781.6	12744.1	12591.6	12211.5	11897.2	12230.3	12971.7	13065.5	14522.5	15451.5
32.5°	13508.9	13584.0	13581.7	13422.1	12877.8	12317.1	12403.9	12924.8	12997.5	14431.0	15317.8
35°	14294.9	14398.1	14590.5	14522.5	13849.1	12981.1	12737.1	12999.8	13049.1	14419.2	15224.0
37.5°	15111.3	15214.6	15611.1	15794.1	15005.8	13931.2	13262.6	13264.9	13288.4	14562.3	15216.9
40°	15965.3	16075.6	16671.5	17147.8	16504.9	15134.8	14109.5	13818.6	13792.8	14914.3	15355.3
42.5°	17161.8	17260.4	17976.0	18583.6	18168.3	16676.2	15280.3	14672.6	14618.7	15604.0	15798.8
45°	18675.1	18759.6	19519.7	20169.6	19956.1	18435.8	16751.3	15848.0	15838.6	16753.6	16697.3
47.5°	20474.6	20540.3	21223.0	21851.7	21929.2	20460.5	18600.0	17661.6	17509.1	18330.2	18088.6
50°	22349.1	22421.8	22886.4	23562.1	24136.9	23170.3	20979.0	19883.3	19679.2	20411.2	20059.3
52.5°	23590.2	23686.4	24089.9	24946.3	26619.0	26140.4	23792.0	22576.7	22267.0	22933.3	22663.5
55°	23036.5	23252.4	23869.4	25241.9	28603.9	30677.8	27261.9	25718.1	25368.6	25922.2	25762.7
57.5°	20519.1	20814.8	21657.0	23775.6	28883.0	34675.6	32507.8	29418.0	29171.6	29012.1	29084.8
60°	15918.4	16202.3	17246.3	20007.7	26938.1	37594.2	40402.5	33978.8	33622.2	32113.7	32179.3
62.5°	11266.1	11122.9	11838.5	13858.5	21889.3	37936.7	49385.8	40078.7	38905.7	35388.8	35100.3
65°	8591.5	8558.6	8880.1	9522.9	13257.9	33838.0	54737.3	50331.3	48498.9	39241.2	38560.8
67.5°	7059.5	7000.8	7317.5	8253.6	8537.5	21830.6	54854.6	62226.1	60426.6	44036.6	42563.3
70°	5804.3	5738.6	6034.2	7242.5	7890.0	11071.3	46166.9	69191.7	69095.5	50108.4	45585.1
71°	5203.7	5156.8	5511.0	6853.0	7751.6	9227.3	39860.5	69210.5	69499.0	52163.6	45406.8
72.5°	4237.1	4253.5	4628.9	6099.9	7648.3	8148.1	29296.0	65984.5	66594.5	54122.6	43785.6
75°	2815.3	2829.4	3322.1	4692.2	7416.1	7972.1	16101.4	55368.4	56489.8	52949.5	39954.4
77.5°	1891.0	1886.3	2221.8	3218.9	6461.2	7972.1	9440.8	41411.3	42643.0	42131.6	30802.2
80°	1302.1	1292.7	1529.7	2221.8	4891.7	8068.3	7298.8	29021.5	29394.5	22752.6	12518.9
82.5°	797.7	804.7	999.4	1569.6	3329.1	7261.2	6890.5	15824.6	15418.7	6381.4	3127.4
85°	457.5	455.1	638.1	1062.8	2137.3	6128.1	6719.3	6810.8	6247.7	1921.5	1130.8
87.5°	164.2	176.0	342.5	588.9	1224.7	4267.6	5701.1	3542.6	3193.1	868.1	511.5
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°	15566.5	15566.5	15566.5	15566.5	15566.5	15566.5	15566.5	15566.5	15566.5	15566.5	15566.5
2.5°	15547.7	15561.8	15545.4	15451.5	15371.8	15242.7	15170.0	15069.1	15038.6	15024.5	15062.1
5°	15606.4	15611.1	15472.6	15226.3	14949.5	14623.3	14388.7	14100.2	13964.1	13905.4	13943.0
7.5°	15660.3	15639.2	15336.6	14865.0	14353.5	13785.8	13281.4	12819.2	12549.4	12439.1	12448.5
10°	15667.4	15578.2	15092.6	14362.9	13569.9	12737.1	11962.9	11249.6	10799.2	10505.9	10595.1
12.5°	15594.6	15444.5	14733.6	13713.1	12612.7	11477.2	10430.8	9361.0	8718.2	8420.2	8429.6
15°	15538.3	15266.2	14292.5	12948.2	11470.2	9966.3	8537.5	7280.0	6594.9	6289.9	6146.8
17.5°	15491.4	15073.8	13781.1	12087.2	10121.1	8213.8	6496.4	5375.0	4999.6	4910.4	4872.9
20°	15425.7	14869.7	13211.0	11090.1	8584.4	6252.4	4743.8	4190.2	4192.5	4295.7	4309.8
22.5°	15334.2	14637.4	12603.3	9971.0	6935.1	4553.8	3718.6	3559.1	3720.9	3918.0	3953.2
25°	15198.1	14362.9	11927.7	8734.6	5288.1	3500.4	3176.6	3169.6	3366.7	3573.1	3603.6
27.5°	15005.8	14004.0	11176.9	7406.7	3896.9	2974.9	2845.8	2895.1	3040.6	3190.7	3202.4
30°	14747.7	13586.4	10348.7	6006.1	3054.6	2648.8	2634.7	2679.3	2768.4	2874.0	2883.4
32.5°	14463.8	13161.7	9464.2	4650.0	2615.9	2472.8	2486.9	2508.0	2550.2	2592.5	2601.8
35°	14205.7	12727.7	8558.6	3533.3	2407.1	2357.8	2348.5	2343.8	2348.5	2334.4	2336.7
37.5°	14039.2	12368.7	7615.5	2813.0	2287.5	2257.0	2228.8	2193.6	2153.7	2130.3	2135.0
40°	13978.2	12101.3	6660.6	2430.6	2188.9	2167.8	2113.9	2038.8	1991.9	1977.8	1977.8
42.5°	14142.4	11962.9	5738.6	2238.2	2106.8	2071.6	1982.5	1895.7	1860.5	1858.1	1855.8
45°	14644.5	12019.2	4861.2	2132.6	2031.7	1963.7	1846.4	1773.7	1750.2	1754.9	1752.5
47.5°	15545.4	12373.4	4110.4	2062.2	1956.7	1867.5	1736.1	1677.5	1649.3	1649.3	1651.7
50°	17077.4	13201.6	3512.1	2003.6	1893.3	1778.4	1656.4	1583.6	1546.1	1543.7	1543.7
52.5°	19308.5	14684.3	3139.1	1954.3	1822.9	1698.6	1576.6	1485.1	1440.5	1431.1	1426.4
55°	22105.1	16809.9	3035.9	1921.5	1729.1	1611.8	1480.4	1388.9	1339.6	1318.5	1316.2
57.5°	25232.5	19395.4	3240.0	1881.6	1632.9	1508.6	1374.8	1288.0	1236.4	1210.6	1208.3
60°	28397.4	22217.7	4072.9	1825.3	1553.1	1395.9	1266.9	1187.1	1135.5	1107.4	1102.7
62.5°	31567.0	25192.6	5773.8	1820.6	1496.8	1288.0	1156.6	1088.6	1039.3	1008.8	1001.8
65°	35142.5	28449.0	7707.0	1944.9	1478.1	1189.5	1044.0	990.1	947.8	919.7	917.3
67.5°	39248.2	32125.4	7521.7	2200.7	1541.4	1100.3	938.4	896.2	865.7	842.3	839.9
70°	41174.4	31550.6	4675.8	2381.3	1630.6	1013.5	837.6	807.1	783.6	767.2	760.1
71°	40367.3	29957.6	3920.4	2360.2	1621.2	976.0	797.7	774.2	750.8	736.7	729.6
72.5°	38166.6	27320.5	3270.5	2196.0	1515.6	907.9	746.1	722.6	701.5	685.1	680.4
75°	34248.6	24399.6	2618.3	1754.9	1208.3	767.2	654.6	628.8	612.3	603.0	593.6
77.5°	25176.2	17412.9	2024.7	1386.6	889.2	626.4	558.4	539.6	523.2	509.1	502.1
80°	9644.9	6745.1	1363.1	1034.6	652.2	495.0	450.5	441.1	424.6	415.3	415.3
82.5°	2597.2	2015.3	727.3	626.4	436.4	361.3	344.9	340.2	326.1	307.3	309.7
85°	1051.1	889.2	408.2	344.9	267.5	213.5	232.3	234.6	218.2	194.7	197.1
87.5°	462.2	377.7	227.6	152.5	117.3	82.1	105.6	105.6	96.2	79.8	72.7
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)