

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: P320023

Luminaire Tested: **GAN-SA9D-740-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65913 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

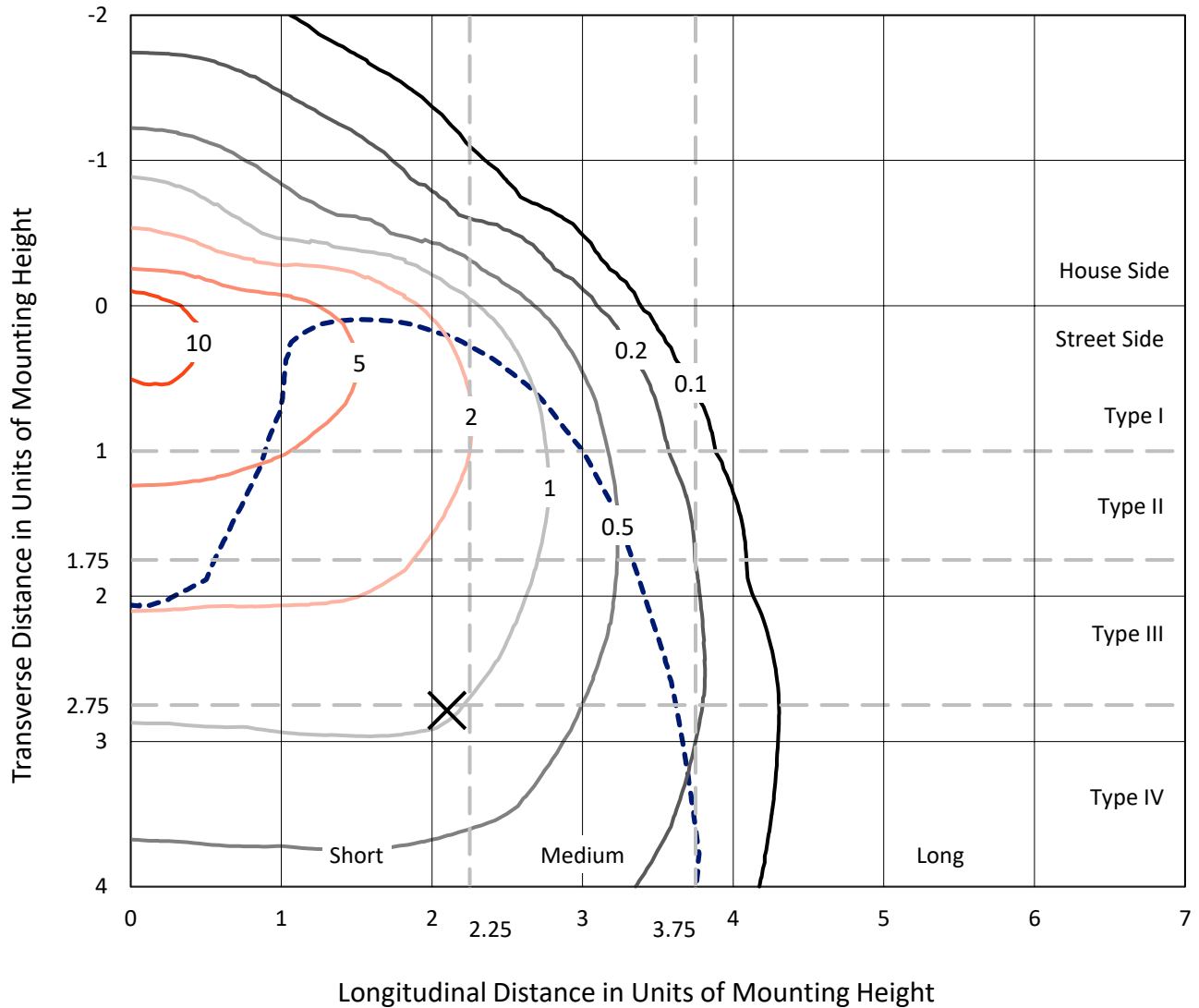
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320023
 CATALOG NUMBER: GAN-SA9D-740-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

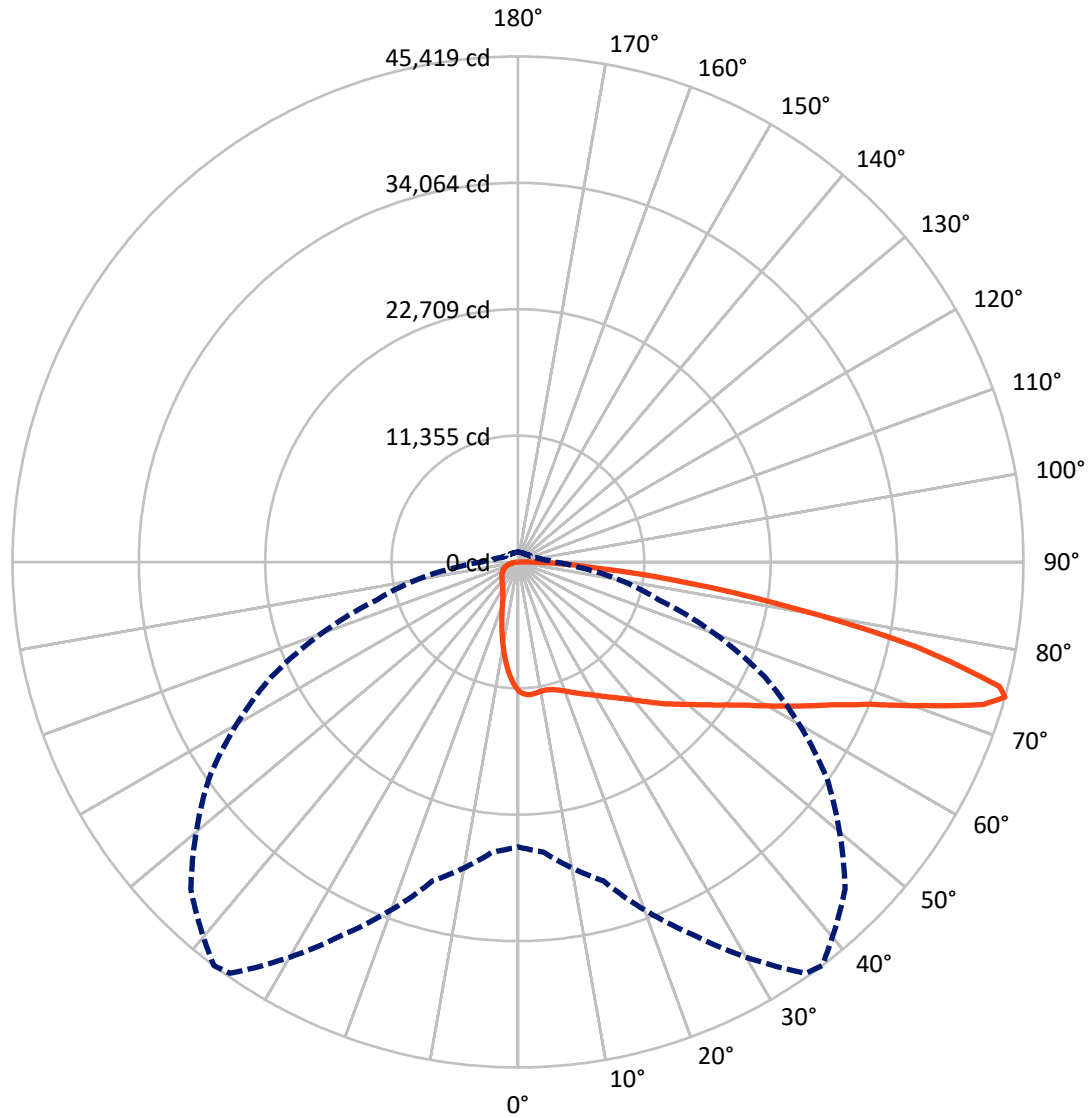
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P320023
CATALOG NUMBER: GAN-SA9D-740-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P320023

CATALOG NUMBER: GAN-SA9D-740-U-SL4

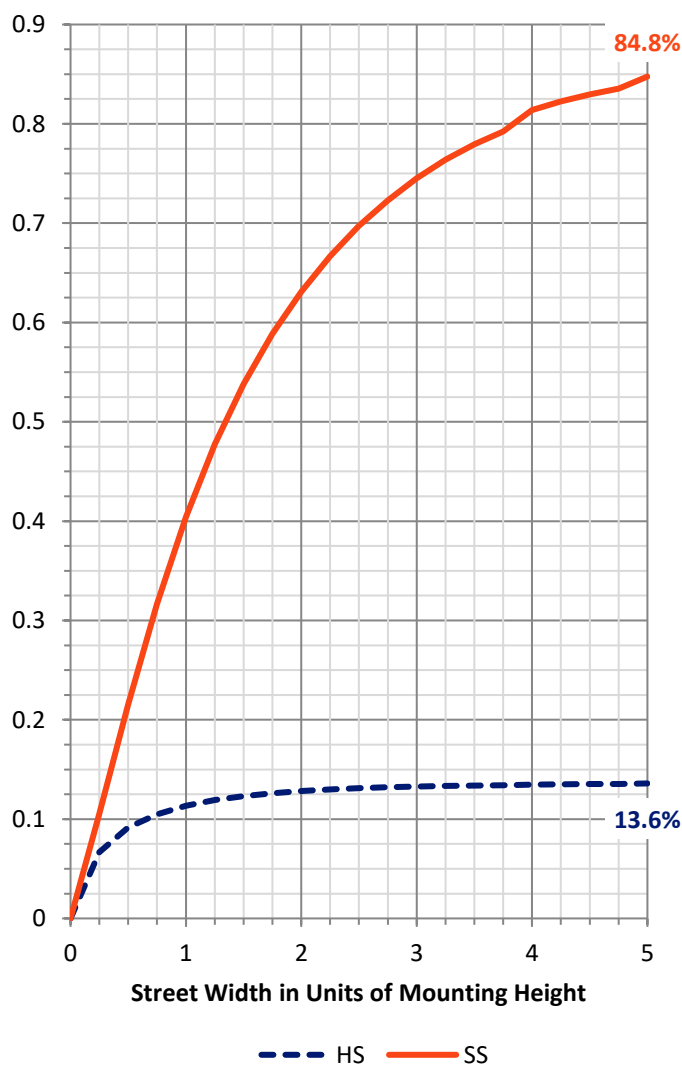
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9069.2	0.0	9069.2
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	56843.8	0.0	56843.8
	% Fixture	86.2	0.0	86.2
Total	Lumens	65913.0	0.0	65913.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1022.7	1.6
10°-20°	2621.5	4.0
20°-30°	4039.2	6.1
30°-40°	5873.6	8.9
40°-50°	8644.9	13.1
50°-60°	12140.2	18.4
60°-70°	15365.7	23.3
70°-80°	13530.1	20.5
80°-90°	2675.2	4.1
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°	65913.0	100.0
0°-180°	65913.0	100.0

Coefficient of Utilization



REPORT NUMBER: P320023

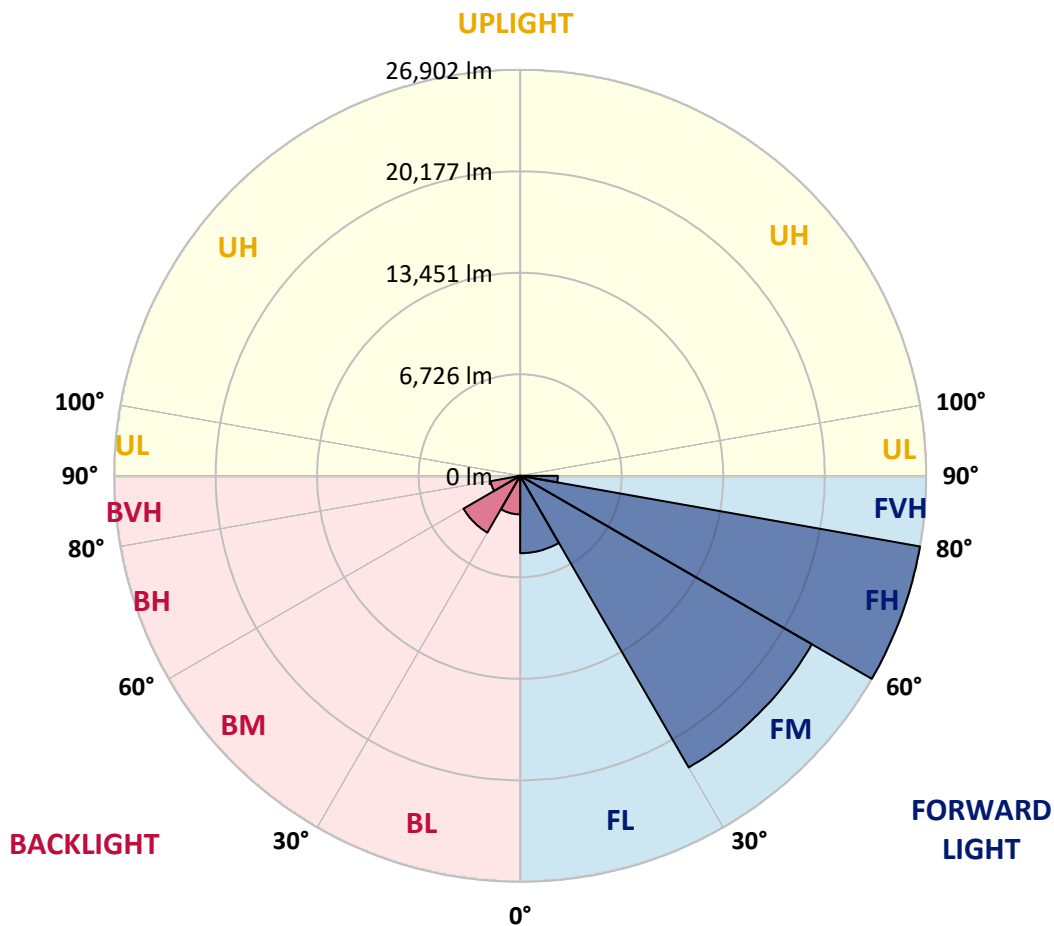
CATALOG NUMBER: GAN-SA9D-740-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5128.8	7.8			
FM (30°-60°)	22318.7	33.9			
FH (60°-80°)	26902.3	40.8			G5
FVH (80°-90°)	2494.0	3.8			G5
BL (0°-30°)	2554.6	3.9	B4/5000		
BM (30°-60°)	4339.9	6.6	B3/5000		
BH (60°-80°)	1993.5	3.0	B3/2500		G3/2500
BVH (80°-90°)	181.2	0.3			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 IV Short





REPORT NUMBER: P320023

CATALOG NUMBER: GAN-SA9D-740-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	11613.6	11613.6	11613.6	11613.6	11613.6	11613.6	11613.6	11613.6	11613.6	11613.6	11613.6
2.5°	12010.6	12013.0	12010.6	11992.1	11948.0	11910.8	11880.6	11836.5	11739.0	11664.7	11553.2
5°	12124.4	12110.5	12101.2	12066.4	11996.7	11954.9	11896.9	11813.3	11653.1	11504.5	11323.4
7.5°	12071.0	12054.8	12033.9	11992.1	11913.1	11878.3	11797.0	11687.9	11495.2	11300.2	11040.1
10°	11906.2	11901.5	11892.2	11882.9	11815.6	11787.7	11713.5	11597.4	11407.0	11170.2	10866.0
12.5°	11722.7	11734.3	11771.5	11820.3	11790.1	11776.1	11729.7	11650.8	11455.7	11200.3	10833.5
15°	11606.6	11639.2	11739.0	11866.7	11892.2	11887.6	11876.0	11824.9	11618.3	11335.0	10907.8
17.5°	11567.2	11620.6	11811.0	12022.3	12096.5	12112.8	12117.4	12029.2	11799.4	11499.8	10984.4
20°	11639.2	11706.5	11985.1	12275.3	12393.7	12403.0	12382.1	12228.9	11971.2	11641.5	11026.2
22.5°	11857.4	11917.8	12266.0	12593.4	12728.1	12742.0	12679.3	12447.1	12152.3	11808.6	11084.2
25°	12277.6	12351.9	12700.2	13027.6	13097.2	13099.6	13009.0	12721.1	12389.1	12043.1	11209.6
27.5°	12825.6	12899.9	13213.3	13533.7	13496.6	13475.7	13352.6	13064.7	12697.9	12365.9	11432.5
30°	13436.2	13517.5	13814.7	14042.2	13954.0	13912.2	13812.4	13440.9	13127.4	12807.0	11773.8
32.5°	14067.8	14142.0	14402.1	14557.7	14446.2	14427.6	14276.7	13937.7	13687.0	13480.3	12326.4
35°	14715.5	14768.9	15024.3	15112.6	14964.0	14959.3	14917.5	14606.4	14448.5	14546.0	13129.7
37.5°	15377.2	15391.2	15609.4	15614.1	15570.0	15588.5	15632.6	15437.6	15481.7	15785.9	14174.6
40°	15967.0	16004.1	16162.0	16210.8	16287.4	16352.4	16573.0	16445.3	16786.6	17325.2	15474.8
42.5°	16403.5	16475.5	16728.5	16853.9	17102.3	17204.5	17515.6	17634.0	18321.3	19129.3	17021.1
45°	16772.6	16884.1	17290.4	17548.1	17968.4	18147.1	18592.9	18990.0	20055.7	21086.5	18648.7
47.5°	17172.0	17313.6	17822.1	18314.3	18885.5	19087.5	19897.8	20492.2	21906.1	23055.4	20183.4
50°	17759.4	17868.5	18365.4	19138.6	19851.3	20111.4	21232.8	22084.9	23786.8	24931.4	21513.7
52.5°	18579.0	18537.2	18957.5	20041.7	20998.3	21318.7	22658.4	23779.8	25693.0	26628.7	22637.5
55°	19403.2	19333.6	19628.4	20986.7	22335.7	22672.3	24227.9	25481.7	27506.3	28156.4	23498.9
57.5°	20320.3	20188.0	20436.4	22052.4	23858.8	24260.4	25985.5	27290.4	29289.4	29391.6	24046.8
60°	21265.3	21086.5	21365.2	23373.5	25792.8	26266.5	28042.6	29054.9	30970.4	30380.7	24223.3
62.5°	22091.9	21966.5	22396.0	24847.8	27973.0	28493.1	30062.6	30930.9	32628.2	30791.6	23587.1
65°	22814.0	22834.8	23577.8	26505.6	30403.9	30958.8	32379.7	33243.5	33933.0	30547.8	22098.8
67.5°	23675.3	23793.7	25061.4	28688.1	33464.0	34072.3	35751.0	35764.9	34662.1	29117.6	19168.7
70°	24931.4	25175.2	27102.3	31715.7	37815.1	38650.9	39946.5	37246.2	33638.2	25240.2	15082.4
72.5°	26045.9	26501.0	29273.2	35179.8	43118.0	43751.9	42400.6	36391.8	29359.1	18915.7	9396.3
74°	25593.1	26157.3	29667.9	36886.3	45114.8	45418.9	41571.7	33898.2	24478.7	13099.6	5460.9
75°	24618.0	25230.9	29092.1	36870.1	44861.7	44692.2	39570.3	31049.4	20160.1	8934.3	3633.6
77.5°	19867.6	20515.4	24513.5	31599.6	36784.2	36624.0	30396.9	20828.8	8829.8	2930.1	1845.8
80°	11550.9	12045.5	15217.0	20067.3	24803.7	25094.0	19990.6	10306.4	3473.4	1646.2	1251.4
82.5°	5131.2	5472.5	7350.8	10243.8	14968.6	15342.4	10469.0	5400.5	2145.3	1000.7	752.3
85°	3366.6	3619.7	4462.5	4878.1	7127.9	7383.3	5124.2	4204.8	1416.3	550.3	552.6
87.5°	2421.6	2665.4	3315.5	2895.3	3271.4	3097.3	2788.5	3891.3	568.8	313.4	185.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320023

CATALOG NUMBER: GAN-SA9D-740-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11613.6	11613.6	11613.6	11613.6	11613.6	11613.6	11613.6	11613.6	11613.6	11613.6	11613.6
2.5°	11504.5	11467.3	11383.8	11225.9	11137.6	11063.3	10940.3	10868.3	10835.8	10833.5	10847.4
5°	11218.9	11133.0	10917.1	10652.4	10441.1	10248.4	10009.3	9865.3	9763.1	9702.8	9719.0
7.5°	10886.9	10752.2	10413.2	9990.7	9651.7	9277.9	8908.7	8688.2	8516.3	8388.6	8411.9
10°	10659.4	10473.6	9979.1	9370.8	8806.6	8263.3	7754.8	7450.6	7209.2	7023.4	7037.4
12.5°	10582.7	10332.0	9647.1	8834.4	8042.7	7299.7	6635.7	6169.0	5920.6	5709.3	5725.5
15°	10594.3	10257.7	9368.4	8351.5	7355.4	6419.8	5614.1	5068.5	4731.8	4585.5	4587.9
17.5°	10603.6	10171.8	9075.9	7833.7	6675.2	5597.8	4722.5	4169.9	3851.9	3717.2	3719.5
20°	10573.5	10032.5	8713.7	7239.4	5964.7	4843.3	3995.8	3526.8	3285.3	3180.9	3180.9
22.5°	10534.0	9867.6	8305.1	6642.7	5263.5	4188.5	3475.7	3118.2	2978.9	2909.2	2906.9
25°	10552.6	9744.6	7887.1	6029.7	4618.0	3666.1	3129.8	2893.0	2800.1	2756.0	2753.6
27.5°	10652.4	9686.5	7501.7	5419.1	4053.9	3273.7	2897.6	2730.4	2670.1	2642.2	2642.2
30°	10833.5	9686.5	7100.0	4899.0	3584.9	2983.5	2718.8	2605.1	2563.3	2544.7	2544.7
32.5°	11149.3	9739.9	6712.3	4383.5	3211.0	2756.0	2570.2	2493.6	2461.1	2451.8	2451.8
35°	11692.6	9921.0	6333.9	3896.0	2909.2	2570.2	2428.6	2384.5	2361.3	2358.9	2365.9
37.5°	12456.4	10290.2	5978.6	3536.1	2695.6	2419.3	2310.2	2275.4	2261.4	2273.0	2282.3
40°	13417.6	10791.7	5655.9	3211.0	2533.1	2298.6	2201.1	2177.8	2170.9	2187.1	2201.1
42.5°	14578.5	11469.7	5391.2	2976.5	2407.7	2196.4	2108.2	2080.3	2073.4	2091.9	2110.5
45°	15834.6	12198.7	5205.5	2802.4	2310.2	2119.8	2026.9	1996.7	1982.8	1992.1	2013.0
47.5°	16977.0	12888.3	5131.2	2679.4	2217.3	2054.8	1955.0	1917.8	1894.6	1889.9	1906.2
50°	17940.5	13401.4	5166.0	2605.1	2143.0	1982.8	1885.3	1843.5	1808.7	1787.8	1799.4
52.5°	18641.7	13724.1	5198.5	2572.5	2085.0	1903.9	1808.7	1769.2	1722.8	1687.9	1687.9
55°	19150.2	13798.4	5126.5	2547.0	2040.9	1818.0	1722.8	1685.6	1639.2	1599.7	1595.1
57.5°	19349.8	13589.5	4859.5	2509.9	2010.7	1736.7	1632.2	1604.4	1564.9	1518.5	1516.1
60°	19080.5	12944.0	4344.1	2430.9	1971.2	1669.4	1541.7	1523.1	1504.5	1460.4	1458.1
62.5°	17998.5	11527.7	3677.7	2270.7	1892.3	1597.4	1458.1	1467.4	1469.7	1439.5	1434.9
65°	16036.6	9582.0	3027.6	2061.8	1773.9	1511.5	1372.2	1416.3	1441.8	1437.2	1430.2
67.5°	13185.5	7457.6	2565.6	1841.2	1618.3	1393.1	1279.3	1330.4	1351.3	1367.5	1362.9
70°	9786.4	5258.9	2122.1	1609.0	1430.2	1253.8	1158.6	1184.1	1170.2	1188.8	1195.7
72.5°	5456.2	3155.3	1729.7	1376.8	1235.2	1091.2	1023.9	1019.3	989.1	989.1	989.1
74°	3273.7	2314.8	1520.8	1232.9	1116.8	984.4	926.4	905.5	877.6	880.0	877.6
75°	2632.9	1989.8	1395.4	1137.7	1033.2	921.8	863.7	835.8	814.9	814.9	812.6
77.5°	1662.4	1511.5	1123.7	905.5	826.6	759.2	719.8	682.6	682.6	680.3	678.0
80°	1256.1	1202.7	875.3	684.9	633.8	582.8	557.2	541.0	541.0	547.9	545.6
82.5°	861.4	905.5	615.3	478.3	452.7	415.6	411.0	413.3	406.3	397.0	394.7
85°	629.2	680.3	415.6	301.8	276.3	253.1	271.6	280.9	269.3	248.4	239.1
87.5°	241.5	445.8	222.9	125.4	116.1	99.8	116.1	120.7	130.0	102.2	104.5
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)