

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: McGRAW-EDISON

Report Number: P651388

Luminaire Tested: **GALN-SA5D-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-840-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29399.7 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

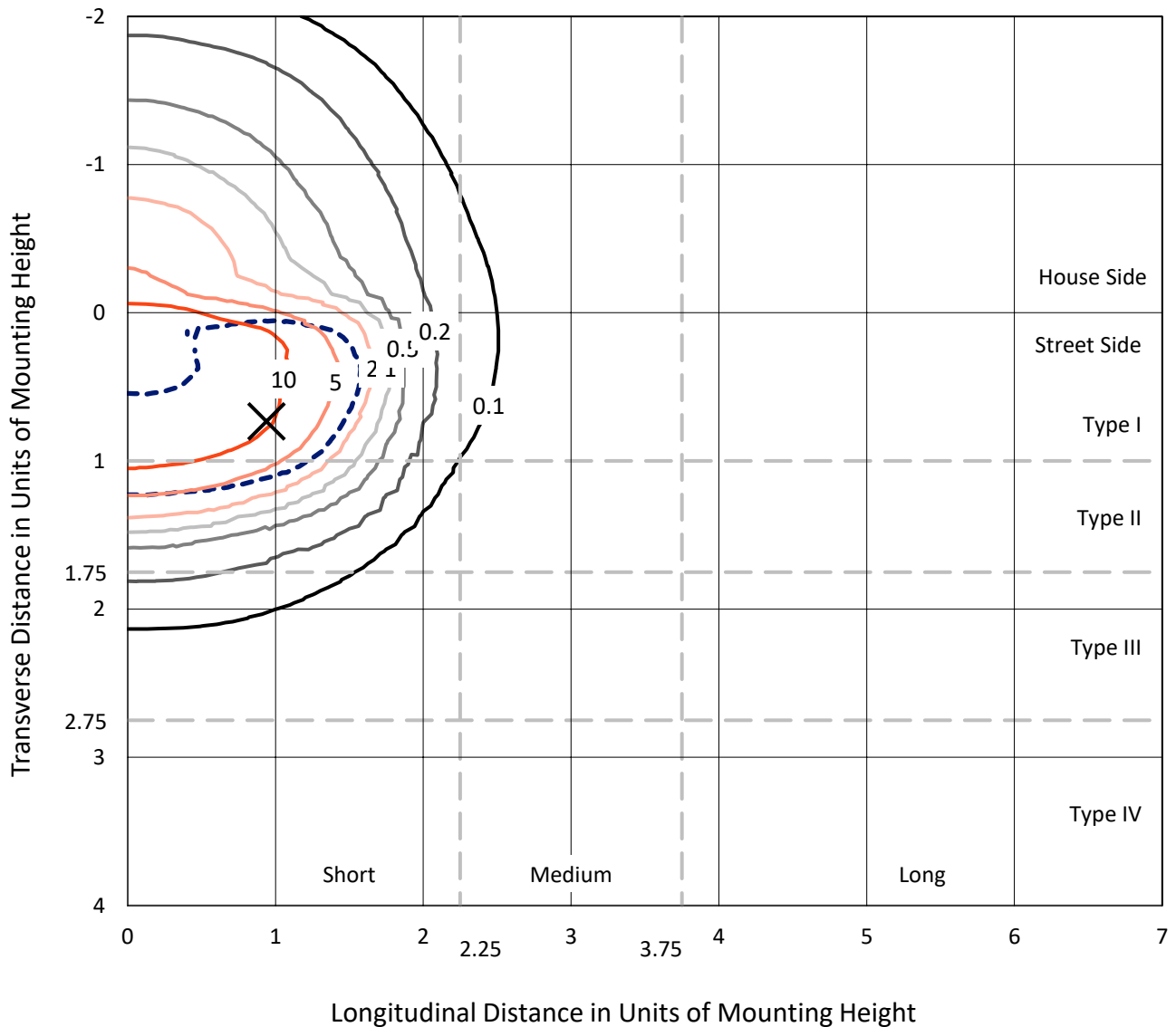
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

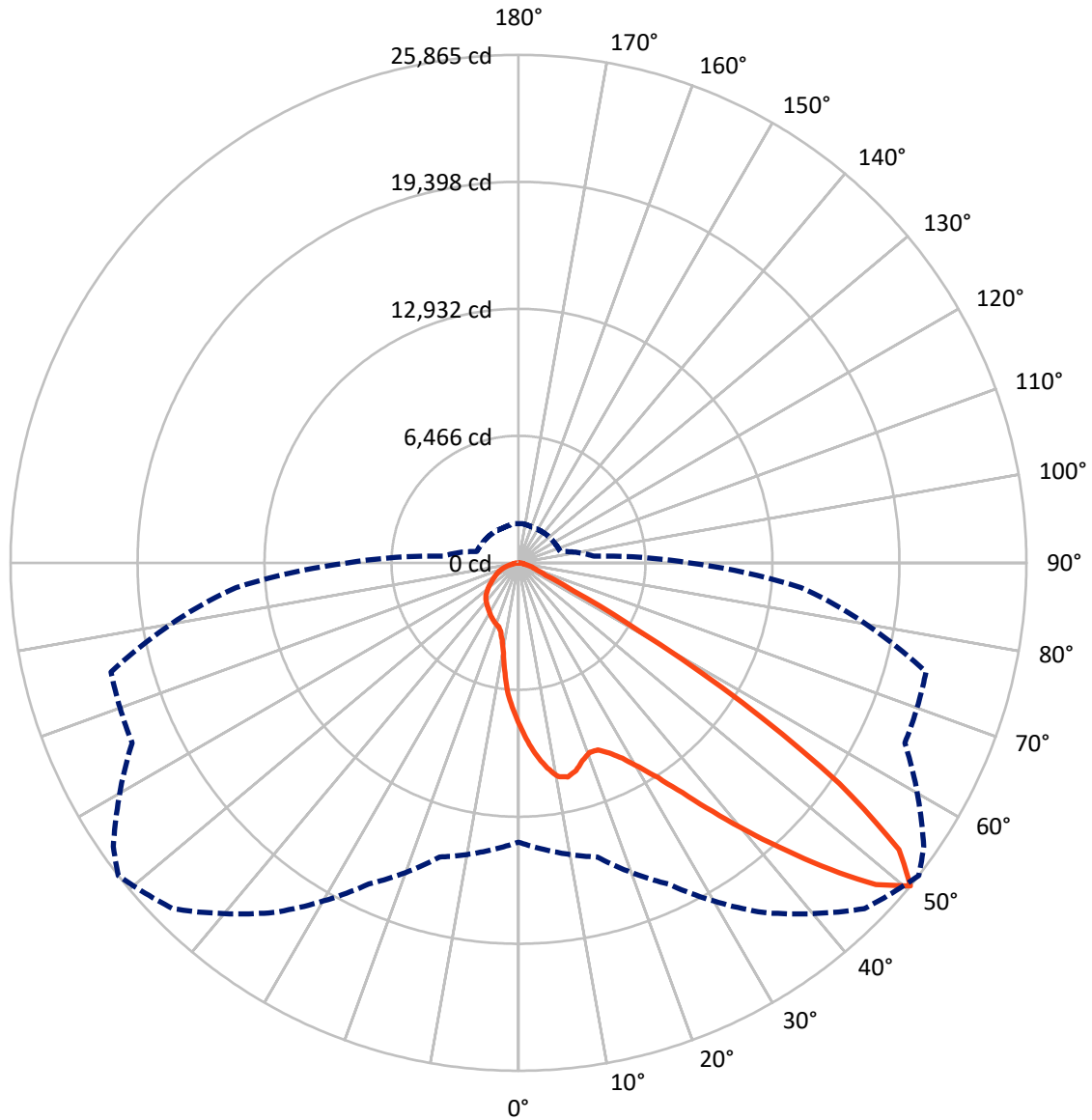
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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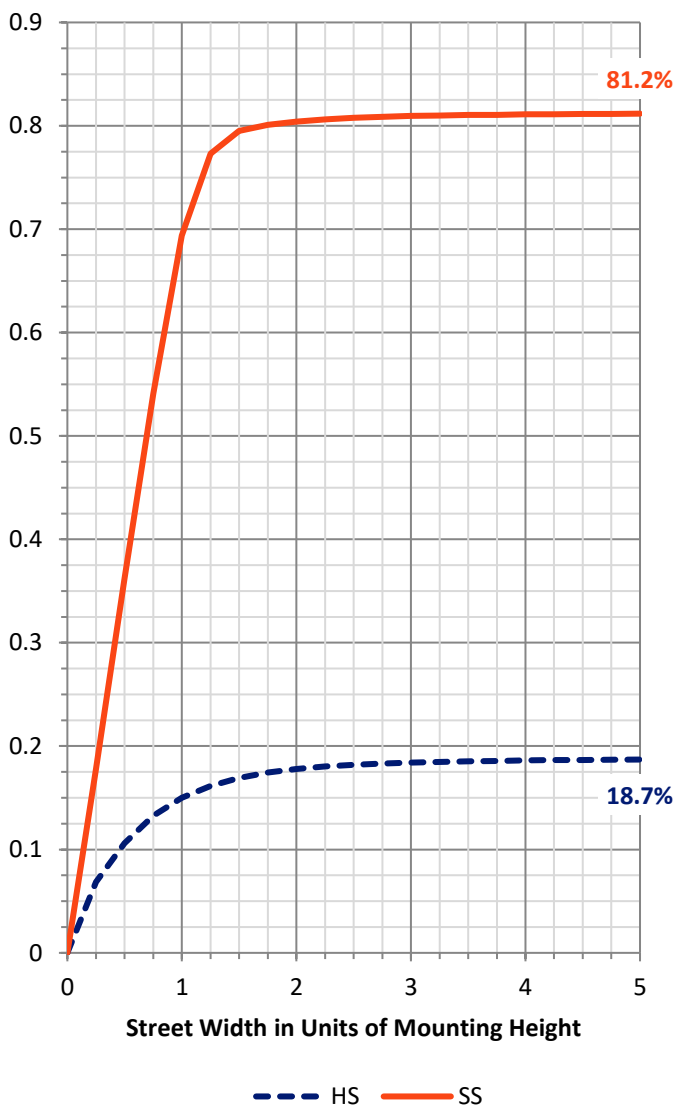
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5526.5	0.0	5526.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	23873.2	0.0	23873.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	29399.7	0.0	29399.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	763.8	2.6
10°-20°	2047.3	7.0
20°-30°	3448.6	11.7
30°-40°	5787.0	19.7
40°-50°	8852.6	30.1
50°-60°	6454.3	22.0
60°-70°	1436.4	4.9
70°-80°	518.1	1.8
80°-90°	91.7	0.3
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°	29399.7	100.0
0°-180°	29399.7	100.0

Coefficient of Utilization

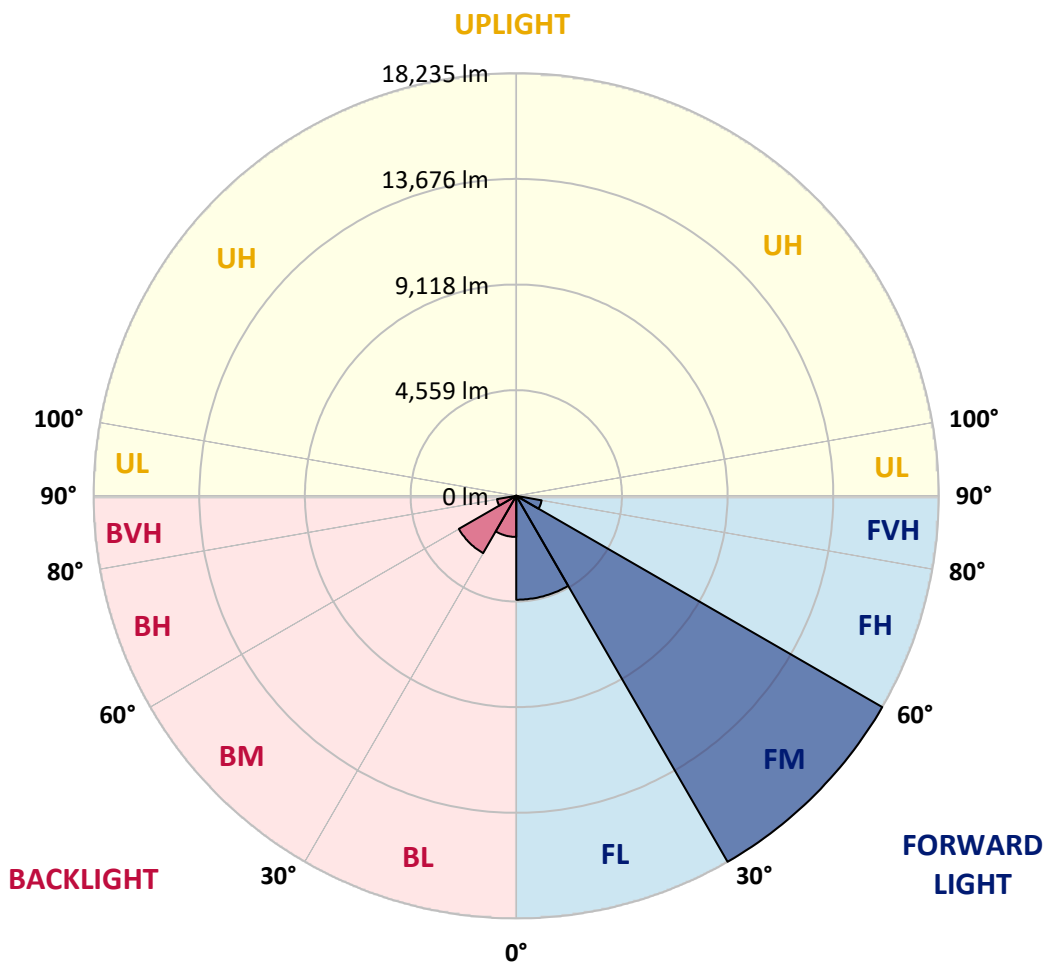


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4484.5	15.3			
FM (30°-60°)	18235.2	62.0			
FH (60°-80°)	1112.5	3.8			G1/1800
FVH (80°-90°)	41.1	0.1			G1/100
BL (0°-30°)	1775.2	6.0	B3/2500		
BM (30°-60°)	2858.7	9.7	B3/5000		
BH (60°-80°)	842.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	50.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8287.3	8287.3	8287.3	8287.3	8287.3	8287.3	8287.3	8287.3	8287.3	8287.3	8287.3
2.5°	9757.7	9569.9	9591.1	9456.5	9311.2	9268.7	9119.9	8978.2	8871.9	8645.1	8436.1
5°	10664.7	10608.0	10522.9	10416.7	10306.9	10037.6	9885.2	9708.1	9318.3	8967.6	8620.3
7.5°	10795.7	10785.2	10831.2	10831.2	10870.2	10767.4	10551.4	10427.3	10012.8	9442.3	8797.4
10°	9874.6	9906.5	10129.7	10420.2	10824.1	11104.1	11068.6	11036.7	10583.2	9803.7	9006.5
12.5°	9141.2	9070.3	9201.4	9449.4	10055.2	10732.0	11189.1	11192.6	11075.7	10381.2	9158.9
15°	8726.6	8776.3	8811.7	8928.6	9385.6	10168.7	10972.9	11210.4	11724.0	10788.7	9399.8
17.5°	8992.4	8825.8	8818.7	8847.1	9080.9	9669.1	10572.5	10980.0	12078.4	11313.0	9697.4
20°	9339.6	9336.0	9236.9	9201.4	9197.8	9722.2	10310.4	10863.1	12266.2	11993.3	9998.6
22.5°	9949.0	9949.0	9786.0	9708.1	9541.6	9970.2	10345.8	10721.4	12578.0	12461.0	10143.9
25°	10969.4	10802.9	10522.9	10331.7	10236.0	10388.4	10721.4	11058.0	12850.8	12957.0	10445.1
27.5°	11911.8	11649.7	11511.5	11182.0	11054.4	10965.9	11270.6	11610.7	13169.6	13729.5	10608.0
30°	12981.8	12935.8	12687.8	12262.6	11947.3	11784.3	12064.2	12400.8	13754.3	14519.6	10983.5
32.5°	14895.1	14477.1	14140.5	13619.7	13105.9	12758.6	13035.0	13258.2	14725.1	15345.1	11394.5
35°	16960.8	16826.1	16245.1	15306.1	14519.6	14207.8	14370.8	14537.3	15855.3	16606.5	12085.5
37.5°	18991.0	18806.7	18328.4	17538.3	16581.7	15947.5	16064.4	16259.2	17123.8	18307.1	12928.7
40°	20450.7	20223.9	19983.0	19866.1	18916.5	18048.4	17981.2	18030.8	18838.6	19901.5	13864.1
42.5°	20557.0	20836.9	20911.3	21382.5	21159.3	20447.1	20032.6	20043.2	20475.5	21478.2	14810.1
45°	20333.8	20075.2	20624.3	21910.5	22647.5	22980.5	22282.5	22193.9	21488.8	22392.3	15281.3
47.5°	17991.8	18062.7	18991.0	21024.7	23154.1	24642.1	24479.2	24185.1	22030.9	22360.4	15207.0
50°	14222.0	14650.6	15511.7	18044.9	21736.8	24904.4	25864.5	25184.2	21708.5	21481.7	14448.7
52.5°	9470.7	9647.9	10214.7	13485.0	17478.1	22261.2	24270.2	24426.0	21410.9	20330.2	13488.5
55°	4216.3	4202.1	4999.3	7043.6	10965.9	16939.5	19830.7	20780.2	20266.5	19157.5	12553.2
57.5°	1785.7	1845.9	2171.9	3043.5	5392.6	10221.8	13435.4	14268.0	15586.0	15731.3	9630.1
60°	1208.2	1215.2	1303.9	1523.6	2256.9	4800.8	7047.2	8046.4	8988.8	8925.0	5109.2
62.5°	949.6	974.4	1041.7	1130.2	1339.3	2179.0	3153.3	3709.7	3769.9	3171.1	1938.1
65°	811.4	814.9	882.2	956.6	1048.7	1268.4	1520.0	1548.4	1566.0	1509.3	1424.3
67.5°	669.6	676.8	729.9	814.9	900.0	970.8	1041.7	1077.1	1158.6	1318.0	1296.7
70°	531.4	542.1	588.1	659.0	737.0	779.4	868.1	900.0	974.4	1098.3	1148.0
72.5°	403.9	407.5	446.4	496.0	566.9	609.4	683.8	719.2	768.8	875.1	921.2
75°	290.6	301.2	329.5	354.3	364.9	393.3	464.1	503.1	574.0	620.1	623.6
77.5°	152.4	159.5	166.5	166.5	201.9	255.1	301.2	322.4	372.1	407.5	389.7
80°	60.2	63.7	81.5	109.8	141.7	184.3	216.1	226.7	269.3	290.6	301.2
82.5°	35.4	38.9	53.2	78.0	102.8	131.1	155.9	166.5	194.9	219.7	226.7
85°	17.7	21.3	31.9	49.6	67.3	81.5	78.0	74.4	74.4	70.9	74.4
87.5°	7.1	7.1	10.6	10.6	10.6	14.2	17.7	17.7	17.7	21.3	21.3
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°	8287.3	8287.3	8287.3	8287.3	8287.3	8287.3	8287.3	8287.3	8287.3	8287.3	8287.3
2.5°	8297.9	8156.2	8025.1	7784.1	7522.0	7447.6	7142.9	7033.0	6955.1	6863.0	6834.6
5°	8340.4	8152.7	7731.0	7245.6	6859.4	6363.4	6037.5	5686.7	5431.5	5367.8	5350.0
7.5°	8429.0	8106.6	7380.3	6646.8	5856.7	5183.5	4669.8	4393.5	4149.0	4134.8	4110.0
10°	8528.2	7968.4	6997.6	5846.1	4836.3	4212.7	3904.5	3784.0	3723.8	3709.7	3702.5
12.5°	8609.7	7940.0	6568.9	5066.6	4113.5	3738.0	3645.8	3635.2	3660.0	3667.1	3681.3
15°	8645.1	7826.7	6051.6	4368.7	3663.6	3525.4	3564.3	3606.9	3624.5	3670.6	3635.2
17.5°	8712.4	7681.4	5413.9	3815.9	3412.0	3436.8	3504.1	3553.7	3582.1	3613.9	3567.9
20°	8747.9	7550.3	4815.1	3486.4	3323.4	3369.5	3461.6	3500.6	3536.0	3550.2	3497.0
22.5°	8716.0	7281.0	4287.2	3220.7	3238.4	3298.7	3380.1	3422.6	3401.3	3344.7	3312.8
25°	8630.9	6901.9	3738.0	3050.6	3117.9	3224.2	3288.0	3256.1	3217.2	3185.2	3174.6
27.5°	8627.4	6437.8	3341.1	2894.7	3015.2	3160.4	3139.2	3110.9	3128.5	3103.7	3075.4
30°	8645.1	5987.8	3015.2	2806.2	2940.7	3011.6	3036.4	3008.1	3029.4	2983.3	2997.5
32.5°	8553.1	5548.5	2802.5	2703.4	2852.2	2848.6	2930.1	2951.4	2901.8	2806.2	2820.3
35°	8592.0	5194.2	2621.9	2657.3	2753.0	2753.0	2816.8	2792.0	2660.8	2604.2	2618.4
37.5°	8861.3	4846.9	2533.3	2593.6	2657.3	2685.6	2664.4	2558.1	2526.2	2526.2	2533.3
40°	9116.4	4549.3	2480.2	2579.3	2568.8	2586.5	2430.6	2441.2	2441.2	2444.7	2427.0
42.5°	9343.1	4347.4	2437.6	2494.3	2512.1	2419.9	2324.3	2313.7	2338.4	2334.9	2320.7
45°	9424.6	4180.9	2377.4	2398.7	2412.8	2260.5	2214.4	2193.2	2221.5	2232.2	2246.3
47.5°	9112.8	4042.7	2310.1	2267.6	2239.2	2140.0	2079.8	2040.9	2076.3	2136.5	2150.7
50°	8712.4	3862.0	2203.8	2122.3	2062.0	2019.6	1977.0	1938.1	1962.9	2005.4	1994.8
52.5°	8120.8	3578.5	2069.2	1984.1	1881.4	1892.0	1853.1	1831.8	1845.9	1845.9	1835.3
55°	7277.5	2940.7	1842.4	1782.2	1697.1	1725.5	1732.5	1704.2	1675.9	1700.7	1679.4
57.5°	4967.5	2076.3	1644.0	1644.0	1559.0	1597.9	1594.4	1527.1	1459.7	1466.9	1452.7
60°	2873.4	1654.6	1516.4	1502.3	1413.7	1445.6	1452.7	1406.6	1303.9	1311.0	1296.7
62.5°	1633.4	1413.7	1325.1	1303.9	1286.1	1314.5	1314.5	1254.3	1165.7	1172.8	1158.6
65°	1388.9	1311.0	1183.4	1179.8	1172.8	1179.8	1151.5	1087.7	1009.8	977.9	981.4
67.5°	1261.3	1211.7	1087.7	1055.9	1034.6	1031.1	977.9	917.7	882.2	853.9	850.3
70°	1105.4	1066.5	974.4	931.8	910.6	860.9	807.9	768.8	719.2	705.1	719.2
72.5°	875.1	871.6	836.2	790.1	744.0	705.1	659.0	605.9	559.8	549.2	524.4
75°	605.9	612.9	620.1	612.9	574.0	524.4	471.2	428.7	372.1	340.1	333.0
77.5°	396.8	407.5	418.1	403.9	379.1	333.0	297.6	244.5	201.9	177.1	173.6
80°	290.6	304.7	311.8	301.2	272.8	237.4	198.4	155.9	124.0	102.8	102.8
82.5°	223.2	237.4	244.5	226.7	198.4	170.1	141.7	109.8	85.0	67.3	63.7
85°	78.0	74.4	88.6	92.1	109.8	102.8	85.0	63.7	49.6	35.4	31.9
87.5°	21.3	21.3	24.8	24.8	21.3	17.7	17.7	17.7	14.2	10.6	10.6
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)