

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: P383358

Luminaire Tested: **GLEON-SA6D-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6D-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44351 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

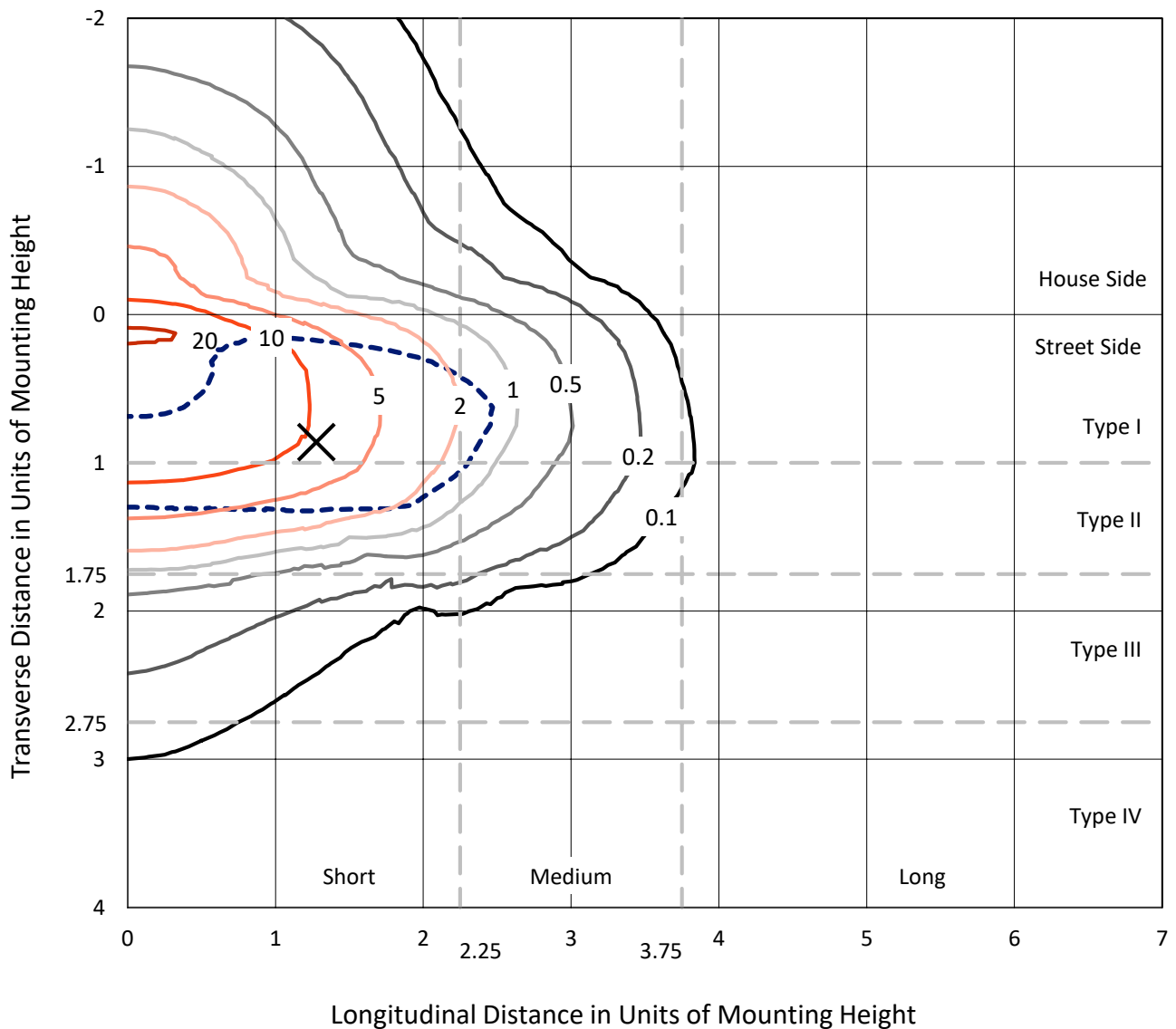
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

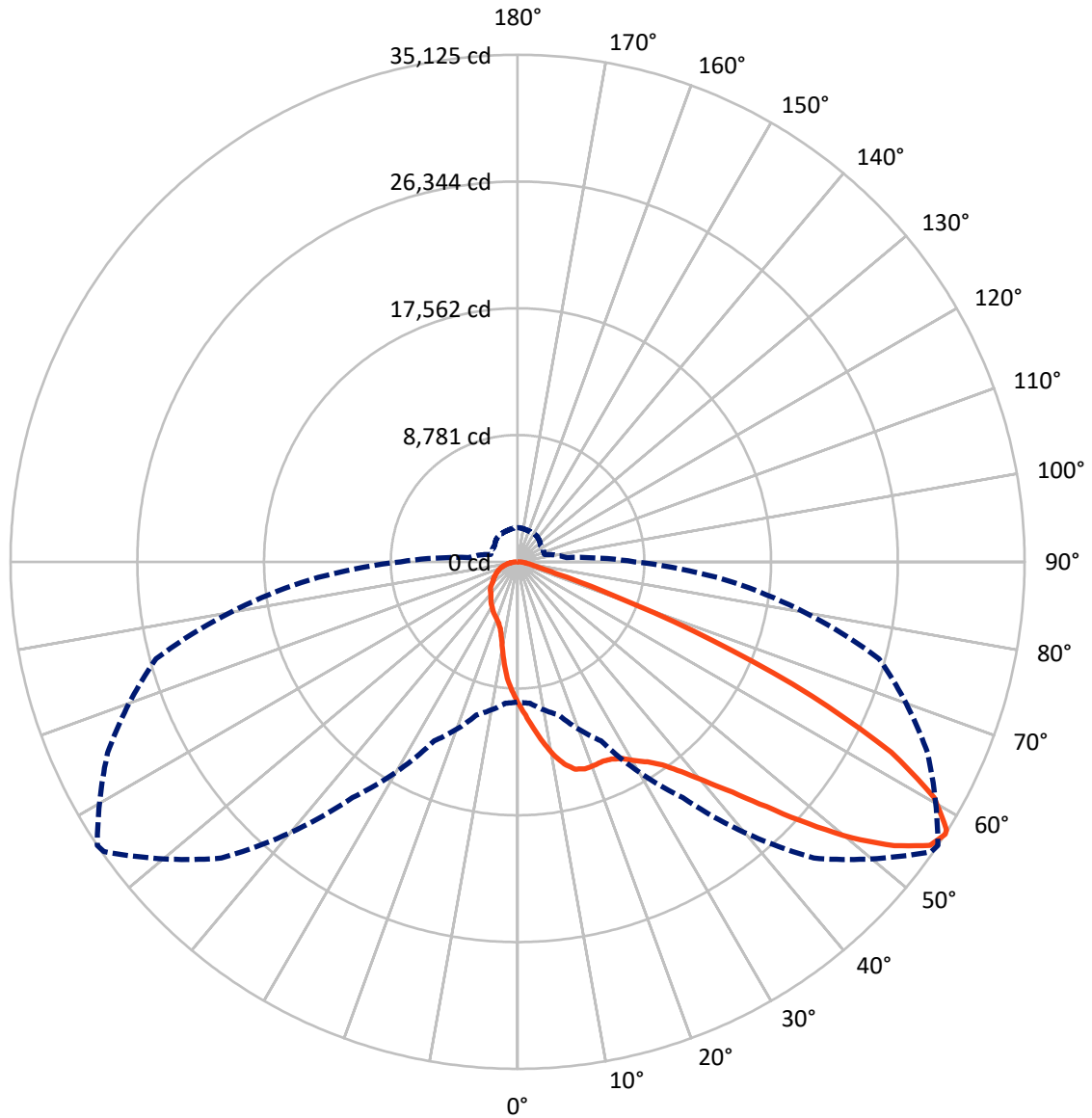
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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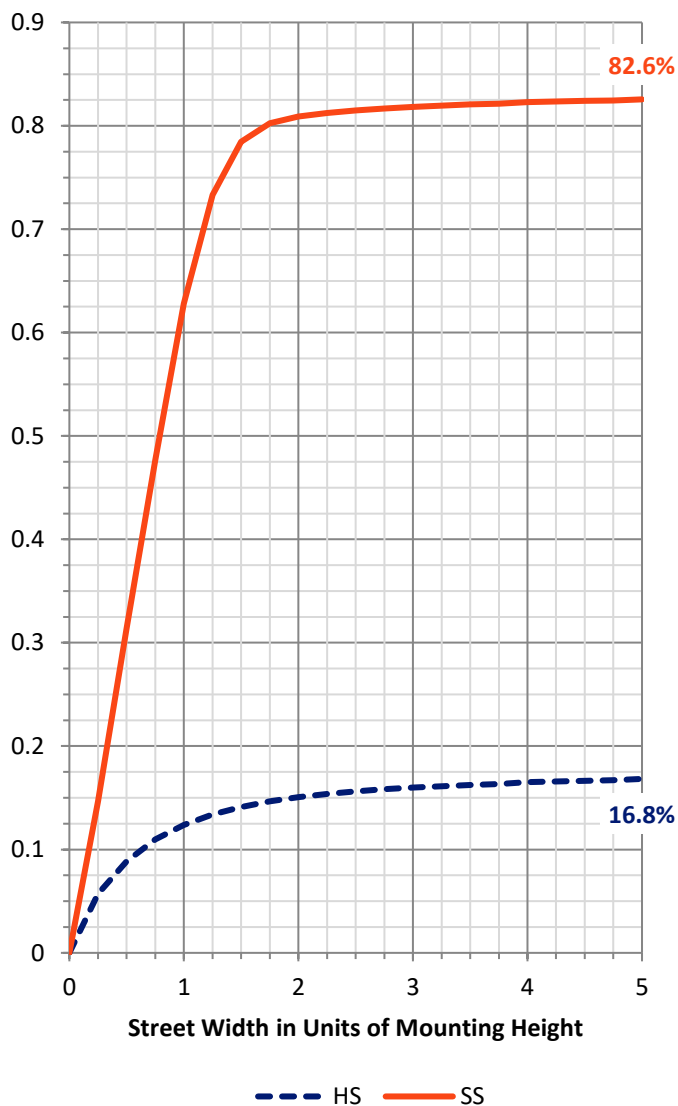
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7645.2	0.0	7645.2
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	36705.8	0.0	36705.8
	% Fixture	82.8	0.0	82.8
Total	Lumens	44351.0	0.0	44351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	939.7	2.1
10°-20°	2656.7	6.0
20°-30°	4327.3	9.8
30°-40°	6468.8	14.6
40°-50°	9811.8	22.1
50°-60°	10997.3	24.8
60°-70°	6495.4	14.6
70°-80°	2128.2	4.8
80°-90°	525.8	1.2
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°	44351.0	100.0
0°-180°	44351.0	100.0

Coefficient of Utilization



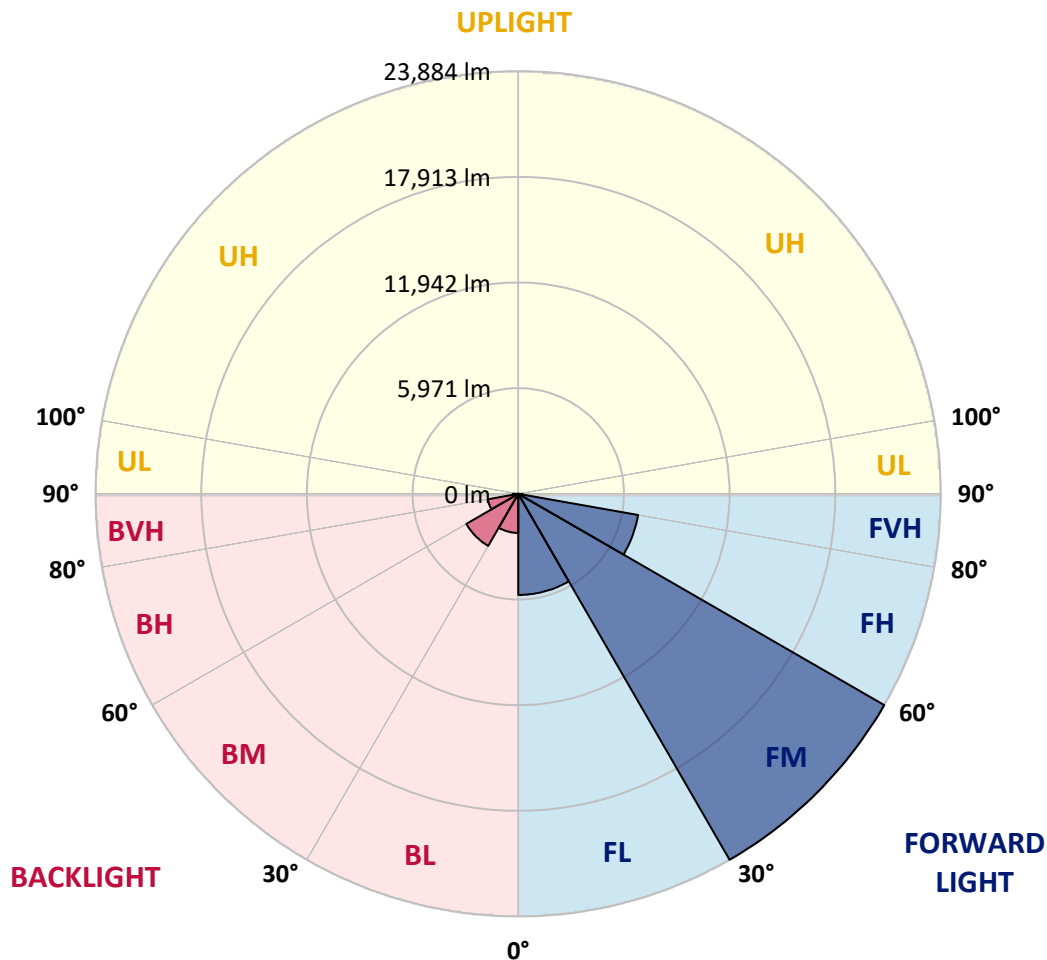
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5713.1	12.9			
FM (30°-60°)	23884.5	53.9			
FH (60°-80°)	6876.8	15.5			G3/7500
FVH (80°-90°)	231.5	0.5			G3/500
BL (0°-30°)	2210.6	5.0	B3/2500		
BM (30°-60°)	3393.4	7.7	B3/5000		
BH (60°-80°)	1746.8	3.9	B3/2500		G3/2500
BVH (80°-90°)	294.3	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9837.0	9837.0	9837.0	9837.0	9837.0	9837.0	9837.0	9837.0	9837.0	9837.0	9837.0
2.5°	11295.8	11399.3	11353.6	11195.2	11073.2	10901.0	10708.9	10651.0	10448.3	10221.2	9948.4
5°	13083.6	13031.8	12957.1	12710.2	12449.6	12146.3	11664.6	11588.4	11137.2	10623.6	10080.9
7.5°	14101.8	14097.2	14053.0	13908.2	13670.4	13274.1	12693.5	12603.5	11922.1	11096.0	10254.8
10°	13953.9	13943.2	14016.4	14167.3	14238.9	14156.6	13667.4	13577.4	12740.7	11618.8	10455.9
12.5°	13114.0	13120.2	13237.6	13554.6	13985.9	14504.1	14424.9	14380.7	13589.6	12210.3	10699.8
15°	12460.2	12473.9	12566.9	12842.8	13351.9	14292.3	14885.2	14900.4	14411.1	12862.6	10984.8
17.5°	12173.7	12202.6	12245.3	12438.9	12905.3	13870.1	14994.9	15077.2	15130.6	13539.3	11259.2
20°	12265.1	12292.5	12304.7	12428.2	12810.7	13614.0	14918.7	15066.6	15682.3	14176.5	11533.5
22.5°	12675.1	12691.9	12699.5	12731.6	13028.7	13687.1	14868.4	15023.9	16081.7	14748.0	11740.8
25°	13354.9	13342.7	13293.9	13252.8	13452.5	13976.8	14984.2	15132.1	16406.3	15266.2	11876.5
27.5°	14168.8	14153.6	14059.1	13946.3	14060.6	14427.9	15318.1	15435.5	16697.4	15750.9	11945.0
30°	15145.8	15106.2	14927.9	14793.7	14838.0	15104.7	15868.3	15975.0	17147.1	16301.2	12012.1
32.5°	16275.3	16232.6	15975.0	15752.5	15752.5	15975.0	16435.3	16523.7	17528.1	16923.1	12120.3
35°	17689.7	17636.3	17301.0	16927.6	16822.4	16935.3	17208.0	17270.5	18214.0	17706.5	12316.9
37.5°	19357.2	19285.6	18851.1	18351.2	18121.0	18115.0	18311.5	18439.6	19309.9	18735.3	12650.7
40°	21029.2	20978.9	20599.3	20206.1	19755.0	19610.2	19913.5	19953.1	20742.6	20012.5	13077.5
42.5°	22321.7	22312.5	22242.5	22294.3	21832.4	21539.8	21777.5	21809.6	22492.4	21394.9	13531.8
45°	23004.5	23019.8	23359.7	24112.6	24283.3	24069.9	24187.3	24196.4	24492.2	22789.6	13947.8
47.5°	22457.4	22536.6	23396.2	25080.4	26478.1	27186.8	26991.8	27104.6	26430.9	23987.6	14274.0
50°	20325.0	20422.5	21885.8	24649.1	27502.4	30203.3	30101.1	30075.2	27994.7	24865.5	14450.8
52.5°	17683.6	17759.8	18967.0	22407.1	26751.0	31870.7	32808.1	32673.9	29384.7	25522.4	14484.4
55°	13661.2	13780.2	14937.0	17932.0	23711.7	31233.6	34798.7	34678.3	30651.4	25866.9	14444.7
57°	9712.1	9837.0	10986.3	13685.6	19947.0	29028.1	34996.8	35124.8	31335.7	25924.9	14488.9
57.5°	8666.6	8794.6	9933.1	12554.7	18773.4	28230.9	34826.1	35039.5	31459.2	25915.7	14513.3
60°	4363.7	4412.6	5138.0	7008.2	11867.3	22823.1	32599.2	33149.5	31570.4	25467.6	14618.5
62.5°	2713.0	2678.0	2655.1	3228.2	5773.6	15135.1	28003.8	29063.2	29441.2	24382.4	14363.9
65°	2385.3	2319.8	2068.3	2022.6	2549.9	7351.1	21088.7	22407.1	24891.4	22672.3	13757.3
67.5°	2240.6	2176.6	1893.0	1722.3	1723.8	2914.3	13092.7	14577.3	19390.7	19780.9	12326.1
70°	2091.1	2033.3	1768.1	1566.9	1467.7	1614.1	6023.6	7149.9	12640.1	15548.2	10302.0
72.5°	1899.1	1859.5	1608.0	1400.8	1295.6	1208.7	2306.0	2723.8	7317.6	10442.2	7154.6
75°	1697.9	1661.3	1446.4	1248.3	1120.3	951.1	1298.6	1399.2	3717.5	5342.2	3522.4
77.5°	1477.0	1455.6	1286.4	1103.5	1001.4	788.0	919.1	967.9	1594.3	2290.9	1766.5
80°	1175.1	1216.3	1124.8	983.1	888.6	631.0	650.9	682.8	928.2	1118.8	1002.9
82.5°	765.2	836.8	881.0	798.7	731.6	496.9	467.9	481.6	605.1	682.8	435.9
85°	318.6	358.2	579.2	522.8	486.2	362.7	314.0	320.1	374.9	388.6	178.3
87.5°	141.8	150.9	254.5	239.3	205.8	125.0	134.1	146.3	199.6	189.0	68.6
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°	9837.0	9837.0	9837.0	9837.0	9837.0	9837.0	9837.0	9837.0	9837.0	9837.0	9837.0
2.5°	9846.3	9718.2	9498.7	9256.4	9058.3	8899.7	8739.7	8630.0	8501.9	8433.3	8398.3
5°	9853.8	9602.4	9140.5	8666.6	8242.8	7855.6	7486.8	7203.3	6938.1	6794.8	6755.2
7.5°	9885.9	9507.8	8761.0	7980.7	7227.7	6540.3	6009.9	5677.6	5438.3	5331.6	5301.2
10°	9911.8	9396.6	8291.5	7136.2	6112.0	5415.5	5003.9	4818.0	4735.6	4721.9	4708.2
12.5°	9972.8	9282.3	7797.7	6255.2	5244.7	4763.1	4619.8	4607.6	4630.4	4664.0	4664.0
15°	10068.7	9169.5	7233.7	5499.3	4693.0	4523.8	4552.8	4619.8	4682.3	4734.1	4741.8
17.5°	10138.9	9030.8	6627.1	4894.2	4398.8	4444.5	4548.2	4642.6	4706.6	4756.9	4761.5
20°	10189.2	8815.9	5979.4	4432.3	4229.6	4371.4	4501.0	4584.7	4629.0	4679.3	4686.9
22.5°	10163.3	8527.9	5404.7	4101.6	4092.5	4264.6	4388.1	4488.8	4455.2	4406.4	4438.5
25°	10038.3	8131.5	4813.4	3854.7	3947.6	4121.4	4273.8	4206.8	4094.0	4072.6	4084.8
27.5°	9815.7	7625.5	4266.2	3626.0	3779.9	3988.8	3979.7	3912.6	3872.9	3845.5	3862.3
30°	9576.5	7076.8	3787.6	3426.3	3594.0	3766.2	3731.2	3729.6	3690.0	3645.9	3667.2
32.5°	9340.2	6525.0	3408.1	3261.7	3453.8	3476.6	3552.8	3575.7	3498.0	3405.0	3398.9
35°	9134.5	6003.7	3120.0	3112.4	3284.6	3287.7	3398.9	3366.9	3173.3	3077.4	3077.4
37.5°	8980.5	5484.0	2900.6	2978.3	3062.1	3141.4	3197.7	3065.2	3033.1	2979.7	2978.3
40°	8913.4	5026.7	2763.3	2876.2	2905.1	3005.7	2860.9	2912.8	2927.9	2900.6	2900.6
42.5°	8843.3	4629.0	2644.5	2798.4	2793.8	2780.1	2707.0	2774.1	2835.0	2836.5	2831.9
45°	8773.2	4286.1	2539.3	2632.3	2696.3	2548.4	2562.1	2633.8	2719.2	2749.6	2749.6
47.5°	8695.4	4014.7	2443.3	2457.0	2556.1	2457.0	2446.3	2501.2	2601.8	2650.5	2661.2
50°	8524.8	3770.8	2333.5	2303.1	2330.5	2364.0	2373.1	2399.1	2510.3	2588.0	2606.4
52.5°	8288.5	3552.8	2193.3	2161.3	2161.3	2287.8	2330.5	2338.1	2432.6	2525.6	2543.9
55°	8091.9	3414.2	2048.5	2042.4	2036.3	2207.0	2280.1	2292.4	2357.9	2431.1	2440.2
57°	8105.6	3403.5	1937.2	1943.3	1941.8	2124.7	2232.9	2258.8	2292.4	2354.9	2365.6
57.5°	8113.2	3411.1	1912.8	1915.9	1914.3	2101.9	2219.2	2248.2	2274.1	2339.6	2350.3
60°	8227.5	3431.0	1813.8	1780.3	1787.8	1979.9	2141.4	2178.1	2194.8	2281.7	2295.4
62.5°	8058.4	3342.6	1734.5	1653.8	1653.8	1851.9	2033.3	2091.1	2117.1	2234.4	2257.3
65°	7567.6	3094.1	1641.6	1510.5	1525.7	1723.8	1903.7	1998.2	2037.9	2184.2	2208.5
67.5°	6810.1	2806.0	1542.5	1382.4	1397.7	1589.7	1769.6	1871.7	1934.2	2129.3	2149.1
70°	5823.9	2454.0	1408.3	1246.8	1265.0	1443.4	1611.0	1726.9	1819.9	2077.4	2083.6
72.5°	4293.6	2012.0	1220.9	1097.5	1117.2	1272.7	1451.0	1585.1	1710.1	1947.9	1944.9
75°	2553.0	1572.9	1013.6	946.5	960.2	1105.0	1306.2	1469.3	1656.8	1897.7	1926.5
77.5°	1548.6	1184.3	826.1	792.6	809.3	957.2	1202.6	1376.4	1633.9	1789.4	1780.3
80°	935.8	845.9	660.0	638.7	655.4	818.5	1112.6	1306.2	1428.2	1528.8	1528.8
82.5°	489.2	516.7	484.7	467.9	490.8	664.6	1012.0	1140.1	1262.1	1083.7	1012.0
85°	199.6	269.8	294.2	292.6	306.4	460.3	873.3	975.5	813.9	772.7	791.1
87.5°	67.1	114.3	143.3	123.4	129.6	289.6	605.1	471.0	559.4	390.2	370.4
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)