

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: P383666

Luminaire Tested: **GLEON-SA9C-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383666
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-SA9C-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60431.3 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

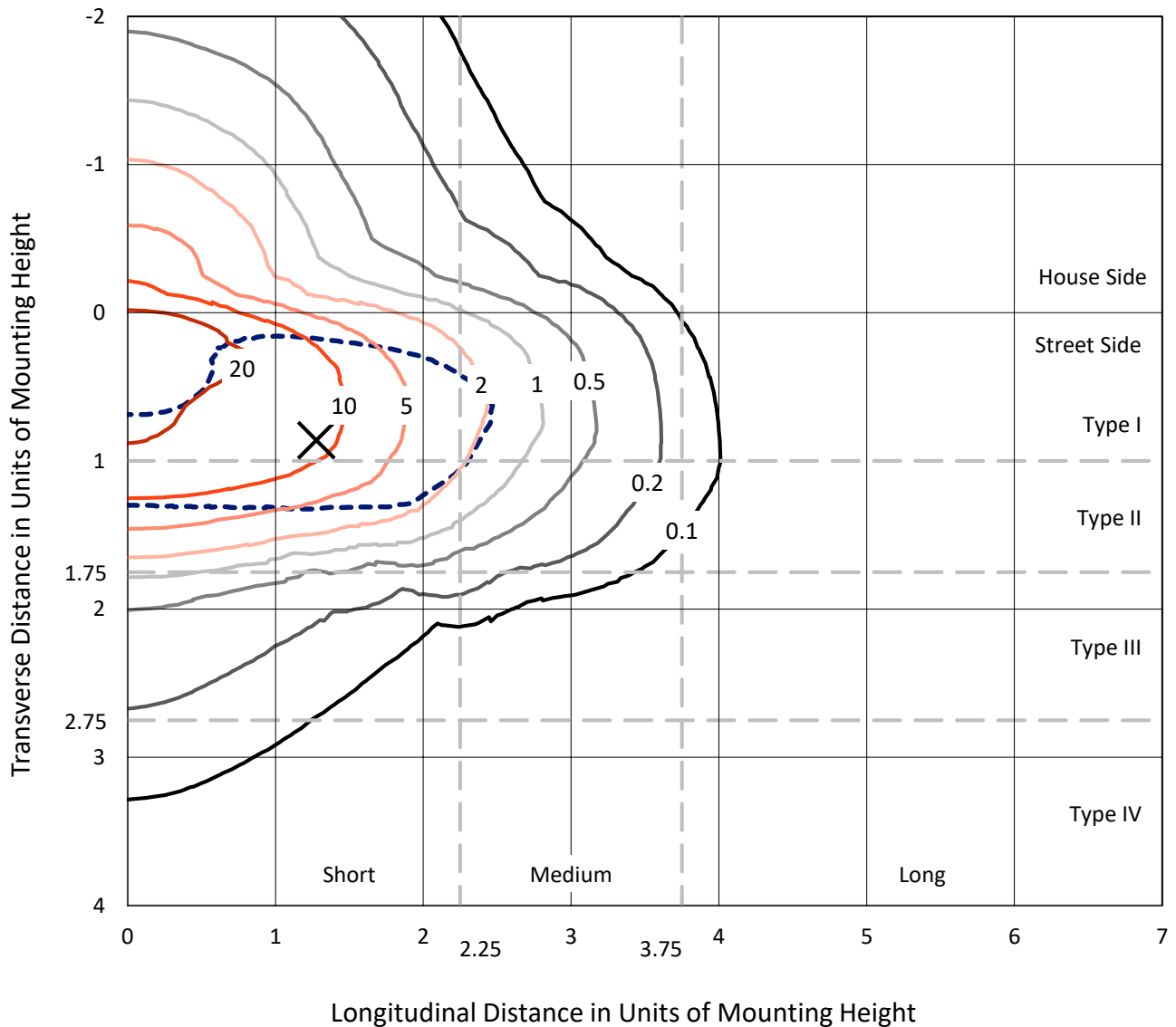
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

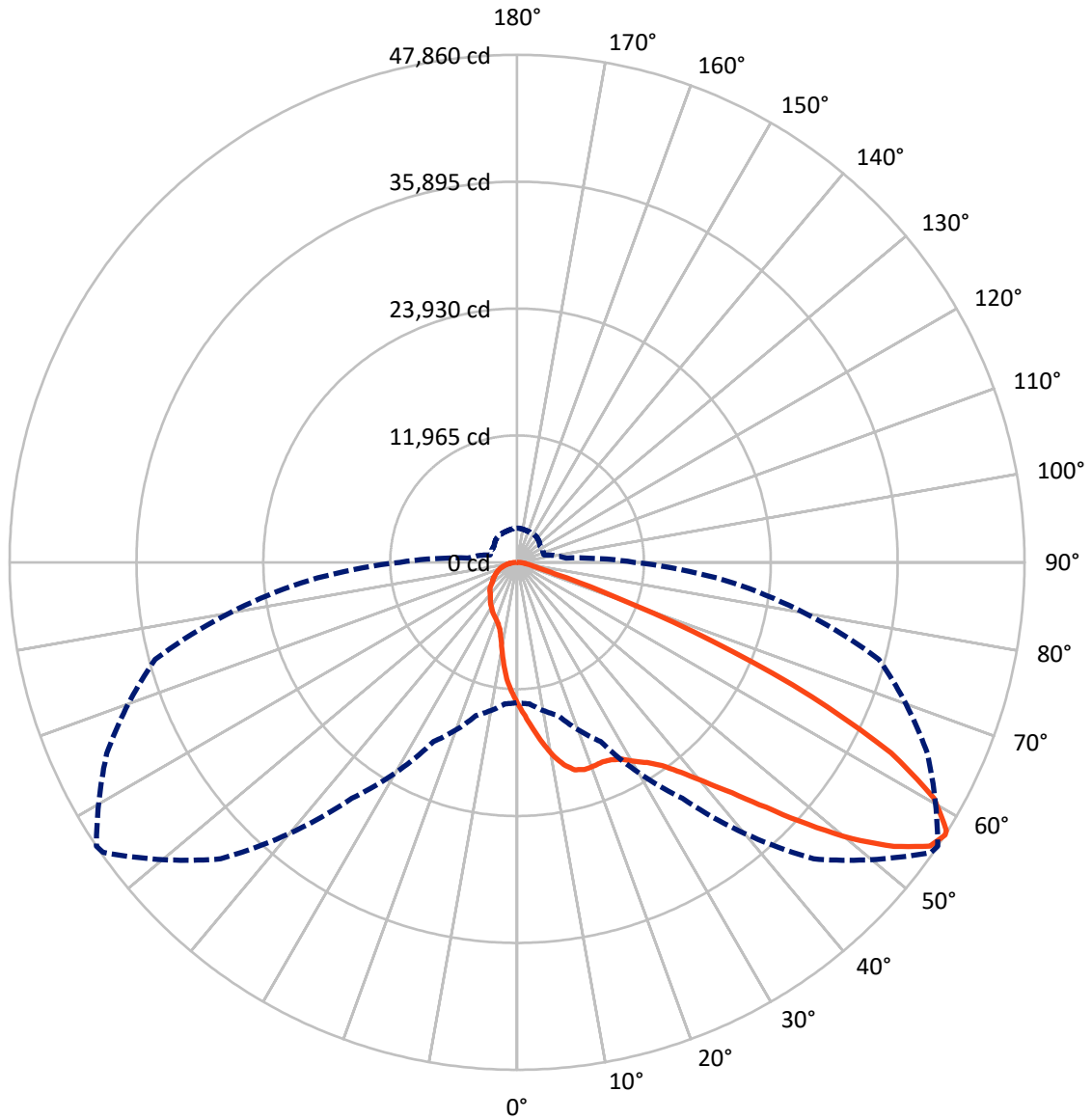
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.7 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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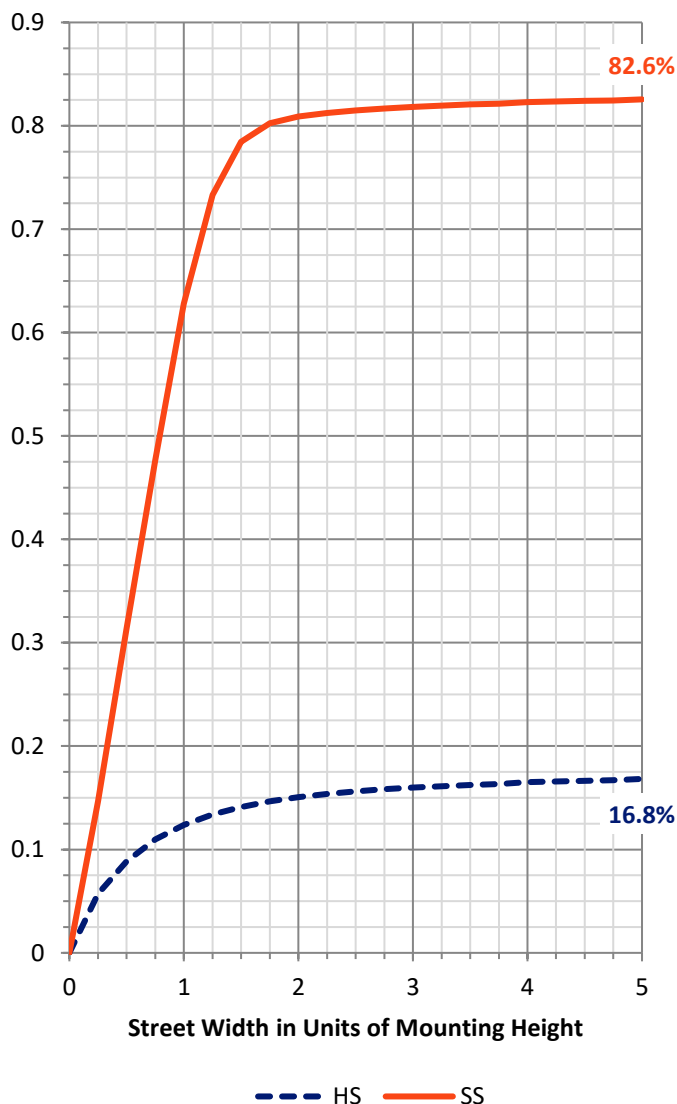
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10417.1	0.0	10417.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	50014.3	0.0	50014.3
	% Fixture	82.8	0.0	82.8
Total	Lumens	60431.3	0.0	60431.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1280.4	2.1
10°-20°	3620.0	6.0
20°-30°	5896.2	9.8
30°-40°	8814.2	14.6
40°-50°	13369.3	22.1
50°-60°	14984.6	24.8
60°-70°	8850.5	14.6
70°-80°	2899.8	4.8
80°-90°	716.4	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°	60431.3	100.0
0°-180°	60431.3	100.0

Coefficient of Utilization

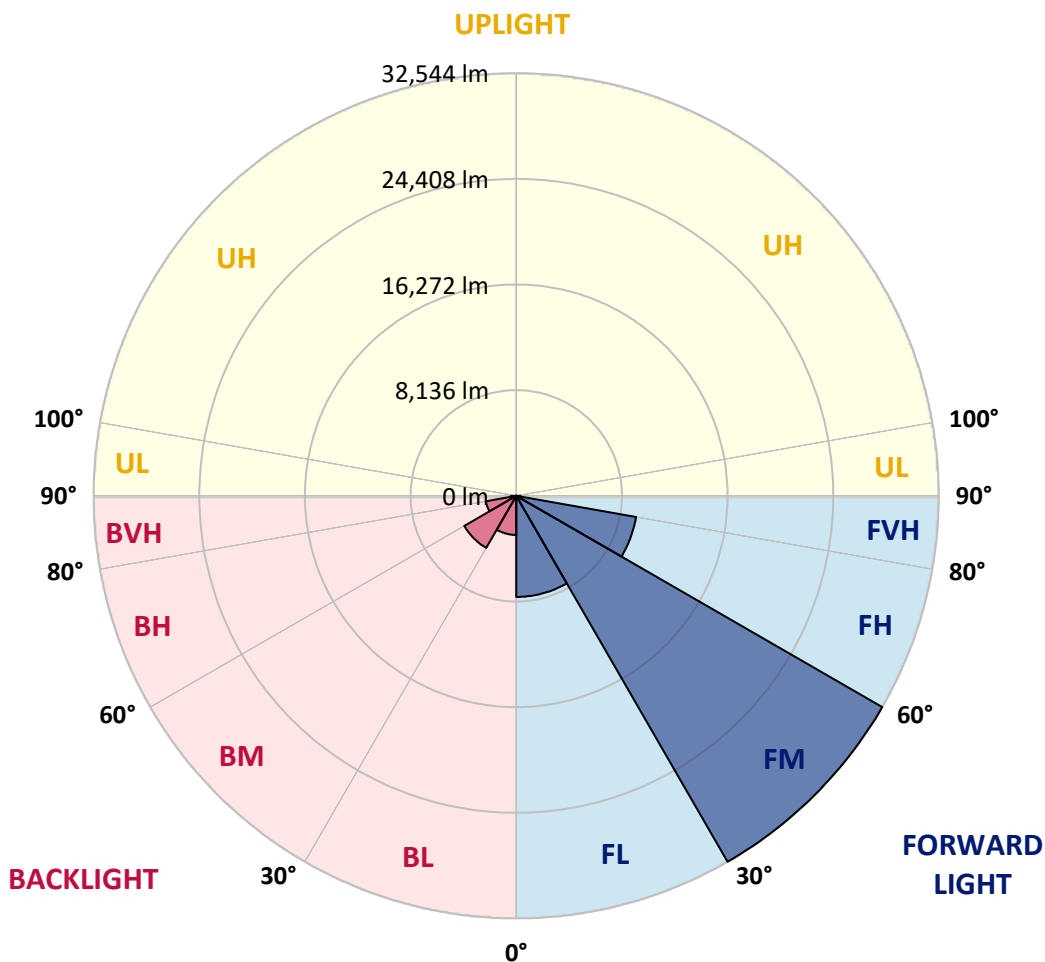


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7784.5	12.9			
FM (30°-60°)	32544.3	53.9			
FH (60°-80°)	9370.1	15.5			G4/12000
FVH (80°-90°)	315.5	0.5			G3/500
BL (0°-30°)	3012.1	5.0	B4/5000		
BM (30°-60°)	4623.8	7.7	B3/5000		
BH (60°-80°)	2380.2	3.9	B3/2500		G3/2500
BVH (80°-90°)	401.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	13403.8	13403.8	13403.8	13403.8	13403.8	13403.8	13403.8	13403.8	13403.8	13403.8	13403.8
2.5°	15391.2	15532.4	15470.1	15254.2	15088.0	14853.3	14591.7	14512.8	14236.6	13927.1	13555.3
5°	17827.3	17756.7	17655.0	17318.5	16963.4	16550.1	15893.8	15790.0	15175.3	14475.3	13736.0
7.5°	19214.7	19208.4	19148.1	18950.8	18626.9	18086.9	17295.7	17173.2	16244.8	15119.2	13972.7
10°	19013.2	18998.6	19098.3	19303.9	19401.5	19289.4	18622.8	18500.3	17360.0	15831.6	14246.9
12.5°	17868.9	17877.1	18037.1	18469.0	19056.8	19762.9	19654.9	19594.7	18516.8	16637.3	14579.2
15°	16977.9	16996.6	17123.3	17499.2	18192.8	19474.3	20282.1	20302.9	19636.3	17526.2	14967.5
17.5°	16587.5	16626.9	16685.1	16948.9	17584.4	18899.0	20431.6	20543.8	20616.5	18448.3	15341.4
20°	16712.1	16749.5	16766.1	16934.3	17455.6	18550.1	20327.9	20529.3	21368.3	19316.4	15715.2
22.5°	17270.7	17293.6	17304.0	17347.6	17752.6	18649.8	20259.3	20471.1	21912.4	20095.3	15997.7
25°	18197.0	18180.4	18113.9	18057.9	18329.9	19044.4	20417.1	20618.6	22354.8	20801.4	16182.5
27.5°	19306.0	19285.3	19156.5	19002.8	19158.6	19659.1	20872.0	21031.8	22751.5	21461.7	16276.0
30°	20637.2	20583.3	20340.2	20157.5	20217.8	20581.1	21621.7	21767.0	23364.1	22211.4	16367.3
32.5°	22176.1	22118.0	21767.0	21463.8	21463.8	21767.0	22394.2	22514.7	23883.3	23058.8	16514.8
35°	24103.4	24030.8	23573.8	23065.0	22921.8	23075.5	23447.1	23532.3	24817.9	24126.3	16782.7
37.5°	26375.5	26277.8	25686.0	25004.8	24691.2	24682.8	24950.8	25125.2	26311.1	25528.1	17237.5
40°	28653.8	28585.2	28068.1	27532.3	26917.5	26720.2	27133.6	27187.5	28263.3	27268.5	17819.0
42.5°	30414.8	30402.5	30306.9	30377.5	29748.2	29349.4	29673.4	29717.1	30647.5	29152.2	18437.9
45°	31345.3	31366.0	31829.2	32855.1	33087.7	32797.0	32956.8	32969.3	33372.2	31052.5	19004.9
47.5°	30599.8	30707.7	31879.0	34173.9	36078.4	37044.0	36778.2	36931.9	36014.0	32684.8	19449.3
50°	27694.3	27827.2	29820.9	33586.2	37473.9	41154.1	41014.9	40979.6	38144.7	33881.0	19690.2
52.5°	24095.1	24199.0	25843.8	30531.2	36450.1	43426.0	44703.3	44520.5	40038.8	34776.2	19736.0
55°	18614.5	18776.5	20352.7	24433.7	32309.0	42557.9	47415.7	47251.5	41764.6	35245.6	19681.9
57°	13233.5	13403.8	14969.7	18647.7	27179.2	39552.9	47685.6	47860.1	42697.1	35324.5	19742.2
57.5°	11808.8	11983.1	13534.5	17106.7	25580.1	38466.7	47453.0	47743.8	42865.3	35312.0	19775.4
60°	5945.9	6012.4	7001.0	9549.2	16170.1	31098.1	44418.8	45168.5	43017.0	34701.5	19918.7
62.5°	3696.8	3649.0	3617.8	4398.7	7866.9	20622.7	38157.2	39600.6	40115.7	33222.7	19571.8
65°	3250.2	3160.9	2818.2	2755.9	3474.5	10016.5	28734.7	30531.2	33916.3	30892.5	18745.3
67.5°	3052.9	2965.7	2579.4	2346.8	2348.9	3970.8	17839.8	19862.6	26421.2	26952.8	16795.2
70°	2849.4	2770.4	2409.1	2134.9	1999.9	2199.4	8207.6	9742.3	17223.0	21185.5	14037.1
72.5°	2587.7	2533.7	2191.0	1908.6	1765.3	1646.9	3142.2	3711.3	9970.7	14228.2	9748.6
75°	2313.6	2263.8	1970.9	1700.9	1526.4	1296.0	1769.5	1906.5	5065.4	7279.2	4799.5
77.5°	2012.4	1983.4	1752.8	1503.6	1364.4	1073.7	1252.3	1318.8	2172.4	3121.4	2407.0
80°	1601.2	1657.3	1532.7	1339.6	1210.8	859.8	886.8	930.4	1264.8	1524.4	1366.6
82.5°	1042.6	1140.2	1200.4	1088.2	996.8	677.0	637.6	656.3	824.5	930.4	594.0
85°	434.0	488.0	789.2	712.4	662.5	494.3	427.9	436.2	510.9	529.6	242.9
87.5°	193.1	205.6	346.8	326.0	280.4	170.3	182.8	199.4	272.1	257.5	93.4
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°	13403.8	13403.8	13403.8	13403.8	13403.8	13403.8	13403.8	13403.8	13403.8	13403.8	13403.8
2.5°	13416.1	13241.8	12942.6	12612.5	12342.4	12126.5	11908.4	11758.9	11584.4	11491.0	11443.2
5°	13426.6	13083.9	12454.6	11808.8	11231.4	10703.9	10201.3	9815.0	9453.6	9258.4	9204.4
7.5°	13470.2	12955.1	11937.5	10874.1	9848.2	8911.6	8188.9	7736.1	7410.1	7264.7	7223.1
10°	13505.5	12803.6	11297.8	9723.6	8328.0	7378.9	6818.2	6564.8	6452.6	6433.9	6415.3
12.5°	13588.6	12647.8	10625.0	8523.2	7146.3	6490.0	6294.8	6278.2	6309.4	6355.0	6355.0
15°	13719.4	12494.1	9856.5	7493.1	6394.5	6164.0	6203.5	6294.8	6380.0	6450.6	6460.9
17.5°	13814.9	12305.1	9030.0	6668.7	5993.7	6056.0	6197.2	6326.0	6413.1	6481.7	6487.9
20°	13883.5	12012.3	8147.3	6039.3	5763.1	5956.3	6132.8	6247.1	6307.2	6375.8	6386.2
22.5°	13848.2	11619.8	7364.3	5588.7	5576.2	5810.9	5979.1	6116.2	6070.5	6004.0	6047.7
25°	13677.9	11079.7	6558.6	5252.3	5378.9	5615.6	5823.4	5732.0	5578.3	5549.2	5565.8
27.5°	13374.7	10390.3	5813.0	4940.7	5150.5	5435.0	5422.5	5331.2	5277.2	5239.8	5262.6
30°	13048.6	9642.6	5160.9	4668.6	4897.1	5131.8	5084.0	5082.0	5027.9	4967.8	4996.8
32.5°	12726.7	8890.8	4643.8	4444.4	4706.1	4737.2	4841.1	4872.2	4766.3	4639.6	4631.3
35°	12446.3	8180.6	4251.2	4240.9	4475.5	4479.7	4631.3	4587.7	4323.9	4193.1	4193.1
37.5°	12236.5	7472.3	3952.2	4058.1	4172.3	4280.3	4357.1	4176.5	4132.8	4060.2	4058.1
40°	12145.1	6849.3	3765.2	3918.9	3958.4	4095.5	3898.2	3968.8	3989.5	3952.2	3952.2
42.5°	12049.7	6307.2	3603.2	3813.0	3806.8	3788.1	3688.4	3779.8	3862.8	3864.9	3858.7
45°	11954.1	5840.0	3460.0	3586.6	3673.8	3472.4	3491.2	3588.7	3705.0	3746.6	3746.6
47.5°	11848.2	5470.3	3329.2	3347.8	3482.8	3347.8	3333.3	3408.1	3545.1	3611.6	3626.1
50°	11615.6	5138.0	3179.6	3138.1	3175.5	3221.1	3233.6	3268.9	3420.5	3526.5	3551.3
52.5°	11293.7	4841.1	2988.5	2944.9	2944.9	3117.3	3175.5	3185.8	3314.6	3441.2	3466.2
55°	11025.8	4652.1	2791.2	2782.9	2774.6	3007.2	3106.9	3123.5	3212.8	3312.5	3325.0
57°	11044.4	4637.5	2639.6	2647.9	2645.9	2895.1	3042.5	3077.8	3123.5	3208.7	3223.2
57.5°	11054.9	4647.9	2606.4	2610.6	2608.4	2863.9	3023.8	3063.3	3098.6	3187.9	3202.5
60°	11210.6	4674.9	2471.4	2425.7	2436.1	2697.8	2917.9	2967.7	2990.6	3108.9	3127.7
62.5°	10980.1	4554.4	2363.4	2253.3	2253.3	2523.3	2770.4	2849.4	2884.7	3044.6	3075.8
65°	10311.4	4215.9	2236.7	2058.2	2078.8	2348.9	2593.9	2722.7	2776.7	2976.1	3009.3
67.5°	9279.1	3823.4	2101.8	1883.7	1904.5	2166.1	2411.2	2550.3	2635.4	2901.3	2928.3
70°	7935.5	3343.7	1919.0	1698.9	1723.7	1966.8	2195.2	2353.0	2479.7	2830.7	2839.0
72.5°	5850.4	2741.4	1663.6	1495.3	1522.3	1734.2	1977.1	2159.9	2330.2	2654.2	2650.0
75°	3478.7	2143.3	1381.1	1289.7	1308.4	1505.7	1779.8	2002.1	2257.5	2585.6	2625.1
77.5°	2110.0	1613.7	1125.6	1079.9	1102.8	1304.3	1638.6	1875.4	2226.3	2438.1	2425.7
80°	1275.2	1152.6	899.2	870.2	893.1	1115.2	1516.1	1779.8	1946.0	2083.0	2083.0
82.5°	666.6	704.1	660.5	637.6	668.8	905.5	1379.0	1553.4	1719.6	1476.6	1379.0
85°	272.1	367.6	400.8	398.7	417.4	627.2	1190.1	1329.1	1109.0	1052.9	1077.9
87.5°	91.4	155.8	195.3	168.2	176.5	394.6	824.5	641.7	762.2	531.6	504.6
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)