

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: P652572

Luminaire Tested: **GALN-SA8B-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-840-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33957.1 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

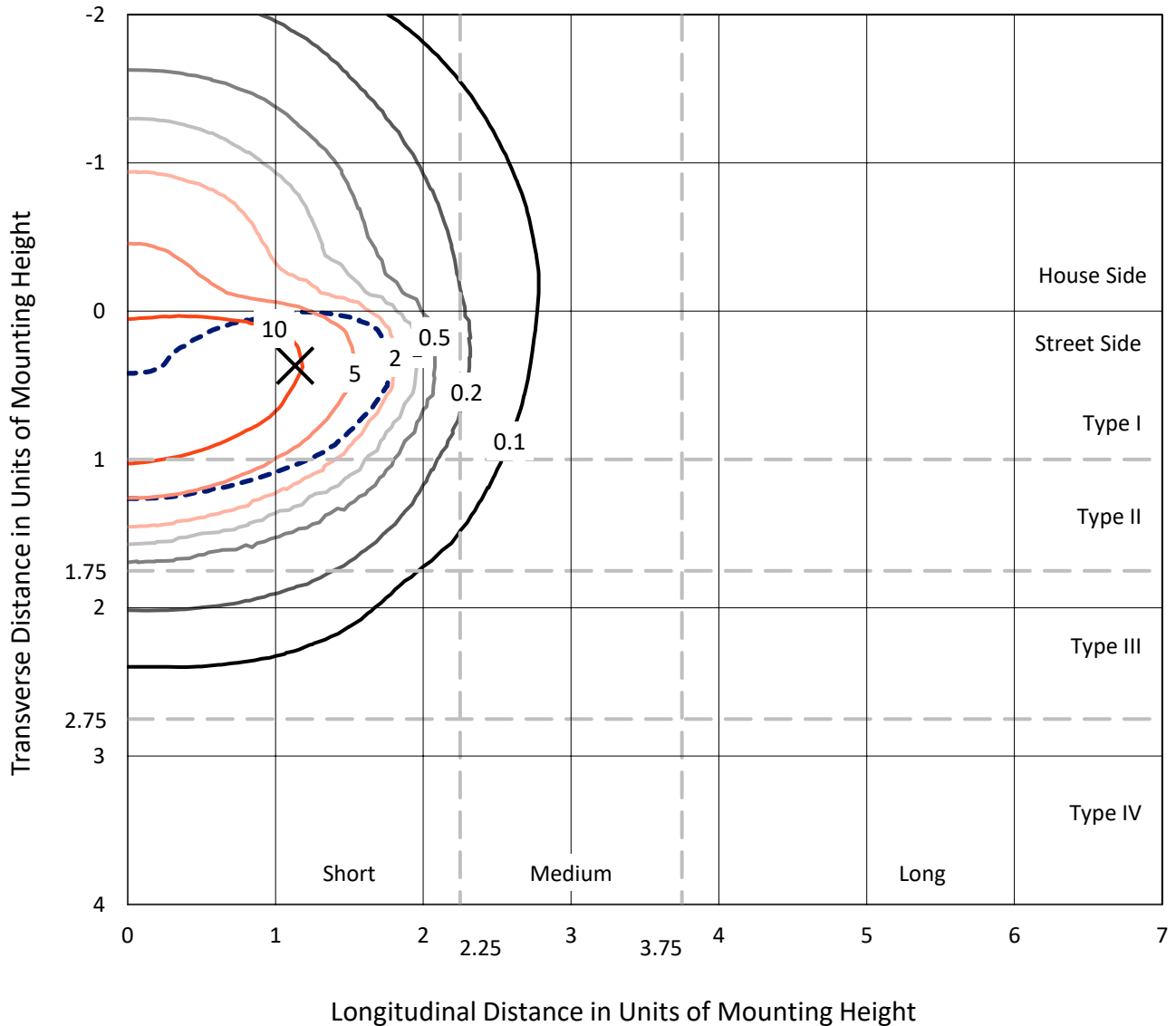
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

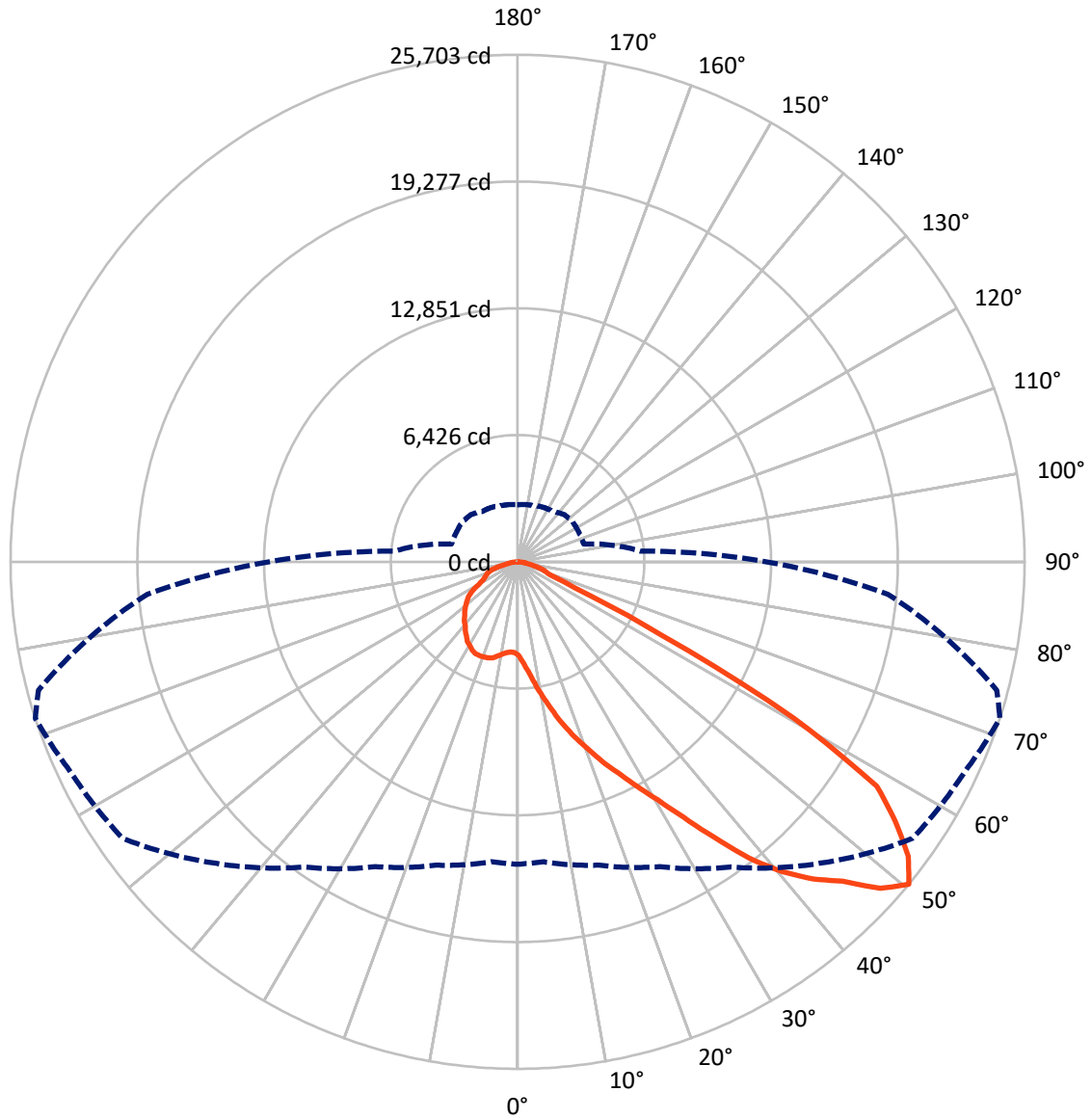
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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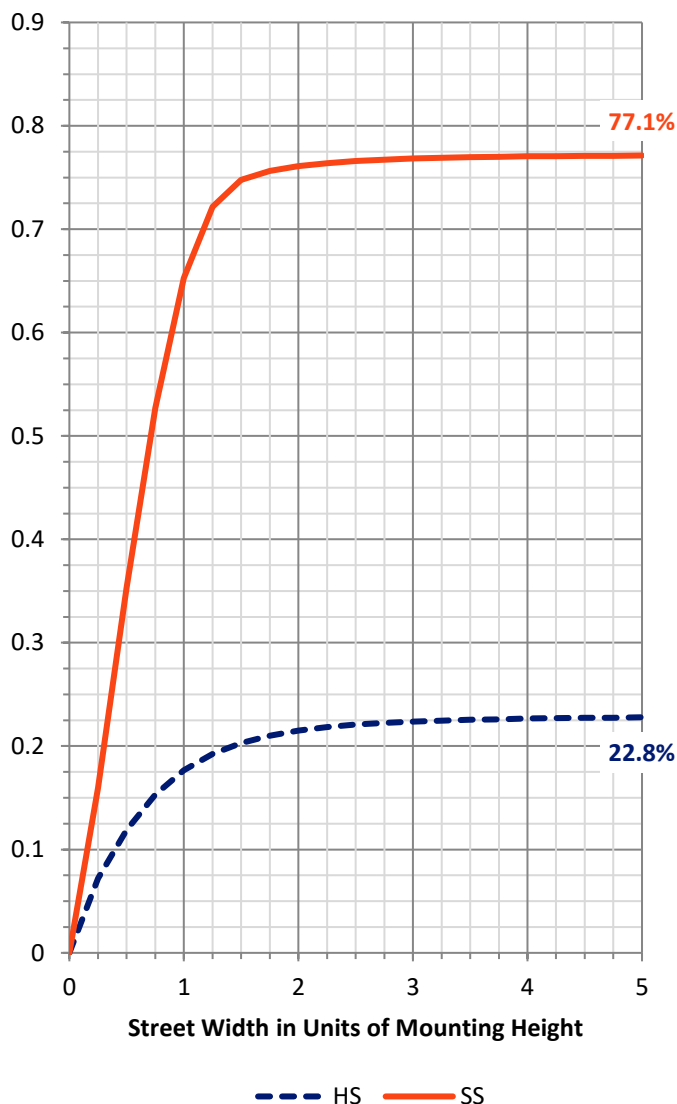
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7779.8	0.0	7779.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	26177.3	0.0	26177.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	33957.1	0.0	33957.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.0	1.6
10°-20°	2078.6	6.1
20°-30°	4030.3	11.9
30°-40°	6676.8	19.7
40°-50°	9342.3	27.5
50°-60°	7881.4	23.2
60°-70°	2402.3	7.1
70°-80°	842.8	2.5
80°-90°	146.5	0.4
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°	33957.1	100.0
0°-180°	33957.1	100.0

Coefficient of Utilization



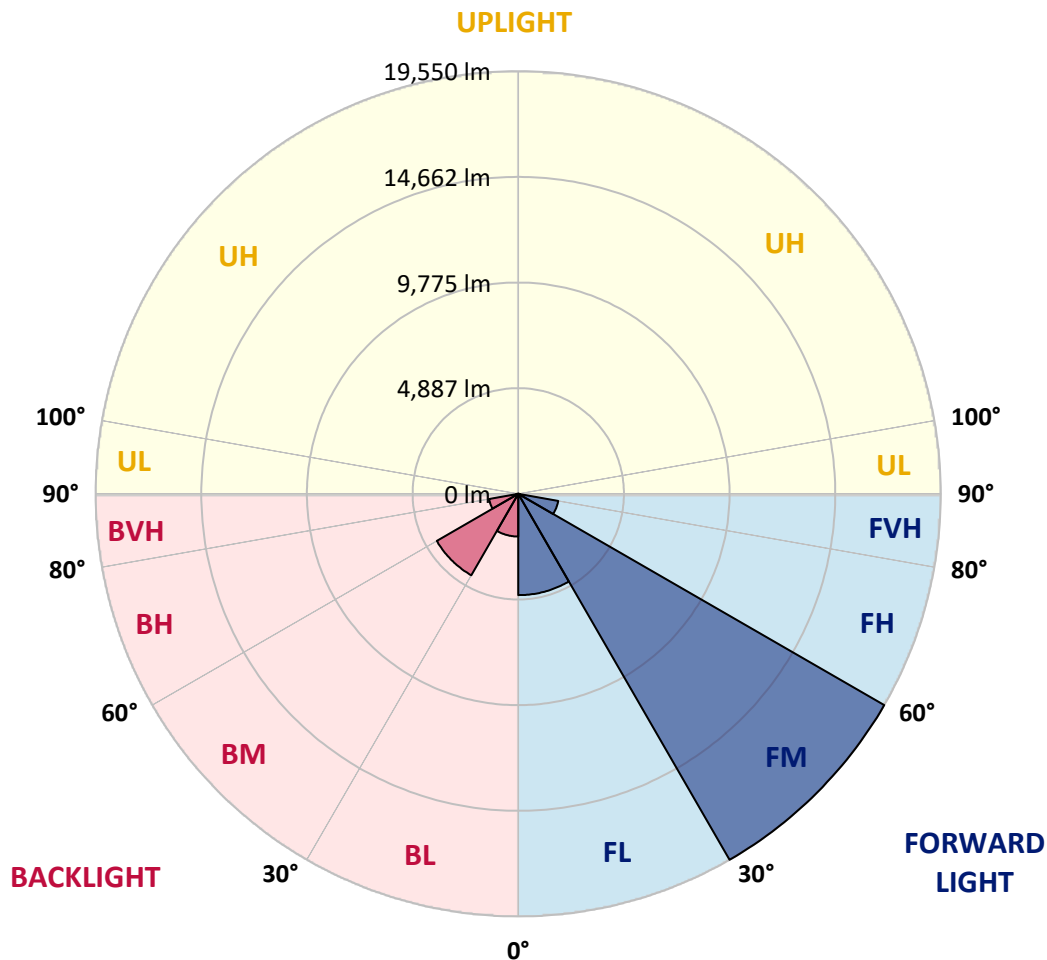
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4687.3	13.8			
FM (30°-60°)	19550.0	57.6			
FH (60°-80°)	1874.4	5.5			G2/5000
FVH (80°-90°)	65.6	0.2			G1/100
BL (0°-30°)	1977.7	5.8	B3/2500		
BM (30°-60°)	4350.6	12.8	B3/5000		
BH (60°-80°)	1370.7	4.0	B3/2500		G3/2500
BVH (80°-90°)	80.9	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1
2.5°	6080.1	6042.3	5928.9	5891.0	5756.6	5512.8	5428.8	5180.9	5075.9	4979.2	4865.8
5°	7689.4	7513.0	7500.4	7286.1	6975.1	6794.4	6256.6	5895.2	5563.3	5395.2	5084.3
7.5°	8714.7	8718.9	8718.9	8542.5	8294.5	7836.5	7353.3	6702.0	6202.0	5954.0	5424.6
10°	9689.5	9605.5	9559.3	9542.5	9374.4	8929.0	8412.2	7605.4	6920.5	6630.5	5681.0
12.5°	10378.6	10307.2	10412.3	10357.6	10235.8	9945.8	9458.4	8538.3	7681.0	7290.3	6092.7
15°	10706.4	10756.8	10840.8	10992.1	10937.5	10828.2	10290.4	9496.2	8500.4	8059.2	6458.3
17.5°	11210.6	11071.9	11172.8	11361.9	11513.1	11462.7	11155.9	10189.6	9311.4	8769.4	6949.9
20°	11563.6	11483.8	11534.1	11752.6	11866.1	12151.9	11992.2	11097.2	10088.7	9517.3	7529.7
22.5°	12572.0	12454.4	12290.5	12324.1	12366.1	12567.8	12605.7	12093.0	10992.1	10387.0	8080.2
25°	13815.8	13706.5	13513.3	13315.7	13193.9	13156.1	13286.4	12874.5	11857.7	11231.6	8672.6
27.5°	15185.6	15000.7	14878.9	14471.3	14143.5	14093.1	14030.1	13807.4	12882.9	12206.4	9340.7
30°	16517.6	16370.5	16206.7	15555.4	15215.0	15160.4	14849.5	14912.4	13996.4	13244.3	10097.1
32.5°	17526.0	17538.6	17164.6	16673.1	16353.7	16063.8	15950.3	16131.0	15425.1	14820.0	10941.7
35°	18341.2	18379.0	18021.9	17576.5	17231.9	17433.6	17383.1	17467.2	17131.1	16391.5	11925.0
37.5°	19135.4	18946.3	18563.9	18349.6	18168.9	18500.9	18929.5	19000.9	19064.0	18194.1	13067.9
40°	19265.6	19282.4	19059.8	19211.0	18984.1	19484.1	20479.9	20387.5	20643.9	19883.3	14307.4
42.5°	19080.7	19118.5	19206.8	19421.0	19967.4	20568.2	22047.2	21669.1	21980.0	21303.5	15513.3
45°	18778.2	18622.7	18731.9	19547.1	20492.6	21828.7	23480.1	23185.9	23085.1	22517.9	16950.4
47.5°	17332.8	17492.4	17832.7	18837.1	20257.3	22047.2	24497.0	24429.7	24732.2	24333.1	18257.2
50°	15328.5	15265.4	15920.9	17051.2	18883.2	21618.7	24442.3	25051.6	25702.9	25148.3	18841.3
52.5°	11479.6	11815.7	12378.8	13782.1	16395.7	19282.4	23249.0	24265.9	24795.3	24677.6	18370.6
55°	7256.7	7357.5	7697.8	9366.0	11719.0	15475.5	19929.5	22286.8	23232.2	23673.4	17937.8
57.5°	3525.4	3336.3	3752.3	5092.7	6769.2	10408.0	15370.5	19412.6	21467.4	22265.7	16996.6
60°	1840.4	1911.8	2075.8	2554.7	3500.2	5403.6	9580.3	12937.6	16076.4	17303.3	12882.9
62.5°	1525.3	1550.5	1659.7	1899.2	2327.8	3109.4	4891.0	6307.0	8197.9	9303.0	7328.1
65°	1294.2	1306.7	1424.4	1584.1	1857.3	2189.2	2516.9	2634.6	3189.2	3273.3	2605.2
67.5°	1079.8	1092.5	1218.5	1369.8	1546.3	1634.6	1718.6	1710.2	1773.2	1748.0	1743.8
70°	832.0	844.6	974.8	1134.5	1222.7	1172.4	1432.8	1491.7	1516.9	1537.9	1571.5
72.5°	600.9	626.0	727.0	840.4	794.2	911.8	1180.8	1269.0	1302.5	1315.2	1357.2
75°	437.0	445.4	470.6	437.0	504.3	634.5	832.0	941.2	983.2	995.8	1058.9
77.5°	193.3	197.5	201.7	252.1	323.5	395.0	495.9	584.1	642.9	659.7	676.5
80°	100.8	105.0	130.3	172.2	231.1	289.9	361.4	411.8	449.6	453.8	470.6
82.5°	63.0	67.2	92.4	121.9	163.9	214.3	264.7	306.7	336.1	340.4	344.6
85°	29.4	37.8	54.7	75.6	109.2	138.7	142.9	121.9	130.3	134.5	126.1
87.5°	8.4	12.6	16.8	12.6	16.8	16.8	21.0	25.2	25.2	25.2	29.4
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°	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1	4727.1
2.5°	4802.8	4764.9	4617.8	4563.3	4420.4	4445.6	4369.9	4365.7	4349.0	4344.8	4340.6
5°	4920.4	4802.8	4626.3	4491.8	4412.0	4403.6	4349.0	4349.0	4365.7	4378.3	4349.0
7.5°	5113.7	4979.2	4680.9	4554.9	4483.4	4470.8	4433.0	4403.6	4441.4	4428.8	4395.2
10°	5336.4	5101.1	4786.0	4676.7	4559.1	4529.6	4529.6	4542.2	4479.2	4500.2	4466.6
12.5°	5584.3	5269.1	4920.4	4794.4	4655.7	4638.9	4630.5	4538.0	4571.7	4554.9	4470.8
15°	5899.4	5462.5	5092.7	4878.4	4760.7	4685.1	4575.9	4559.1	4538.0	4496.0	4458.2
17.5°	6239.8	5672.5	5172.5	4903.6	4727.1	4672.5	4588.4	4500.2	4437.2	4445.6	4416.2
20°	6529.7	5865.8	5201.9	4928.8	4701.9	4596.8	4466.6	4412.0	4344.8	4340.6	4336.4
22.5°	6874.2	6126.3	5244.0	4861.6	4626.3	4517.0	4428.8	4332.2	4285.9	4227.1	4256.5
25°	7286.1	6227.2	5252.4	4823.7	4571.7	4378.3	4332.2	4227.1	4210.3	4126.3	4143.0
27.5°	7584.4	6281.8	5185.1	4706.1	4445.6	4298.5	4214.5	4138.8	4109.5	4046.4	4029.6
30°	7983.5	6365.9	5042.2	4559.1	4319.5	4155.6	4105.3	4088.4	4004.4	3937.1	3928.7
32.5°	8437.3	6420.4	4949.8	4407.8	4189.3	4063.2	4088.4	4008.6	3903.6	3844.7	3827.9
35°	8798.7	6441.5	4718.7	4235.5	4101.1	4021.2	3991.8	3975.0	3823.7	3769.1	3727.1
37.5°	9349.1	6395.2	4525.4	4113.7	4004.4	3975.0	3949.8	3836.3	3664.1	3584.2	3525.4
40°	9992.1	6382.7	4277.5	3941.3	3911.9	3945.6	3869.9	3693.4	3453.9	3365.7	3323.7
42.5°	10609.7	6470.9	4122.1	3848.9	3811.1	3823.7	3718.6	3453.9	3336.3	3285.9	3218.7
45°	11643.4	6655.8	3865.7	3706.0	3689.2	3680.8	3554.8	3277.5	3210.3	3147.2	3134.6
47.5°	12576.2	6533.9	3701.8	3559.0	3575.8	3529.6	3260.6	3172.4	3096.8	3033.7	3012.7
50°	12630.8	6244.0	3470.7	3445.6	3449.8	3369.9	3113.6	3054.8	2958.1	2916.1	2886.6
52.5°	12345.1	5769.2	3256.4	3264.8	3277.5	3147.2	2932.9	2890.9	2811.0	2752.3	2735.4
55°	11542.6	5029.7	3046.4	3080.0	3113.6	2865.7	2798.4	2693.4	2630.4	2546.3	2550.5
57.5°	10168.5	4050.6	2752.3	2806.8	2878.3	2605.2	2554.7	2424.5	2332.0	2264.8	2256.4
60°	6815.5	2882.5	2311.1	2332.0	2491.7	2382.5	2378.3	2248.0	2121.9	2063.1	2029.5
62.5°	4021.2	2201.8	1995.9	1974.9	1970.7	2033.7	2138.7	2092.6	1928.7	1815.2	1848.9
65°	2105.1	1903.4	1857.3	1785.8	1743.8	1727.0	1806.8	1827.8	1718.6	1596.7	1588.3
67.5°	1769.0	1769.0	1731.2	1706.0	1647.1	1575.7	1525.3	1458.0	1441.2	1407.7	1365.6
70°	1609.3	1651.3	1638.8	1579.9	1529.4	1449.6	1319.4	1210.1	1105.1	1067.3	1092.5
72.5°	1403.5	1445.4	1445.4	1416.0	1348.8	1226.9	1100.9	974.8	886.6	819.4	811.0
75°	1079.8	1100.9	1151.3	1117.7	1029.5	953.9	823.6	693.3	609.3	546.2	533.6
77.5°	689.1	722.8	722.8	718.6	655.5	584.1	500.1	407.5	344.6	298.3	285.7
80°	458.0	479.0	495.9	479.0	437.0	382.4	319.3	256.3	210.1	172.2	163.9
82.5°	336.1	361.4	374.0	357.2	315.1	273.2	226.9	180.6	134.5	105.0	96.6
85°	130.3	134.5	151.3	180.6	176.4	172.2	138.7	100.8	75.6	54.7	50.5
87.5°	33.6	29.4	33.6	33.6	29.4	25.2	25.2	25.2	25.2	12.6	16.8
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)