

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: P383541

Luminaire Tested: **GLEON-SA8B-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8B-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44447.9 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

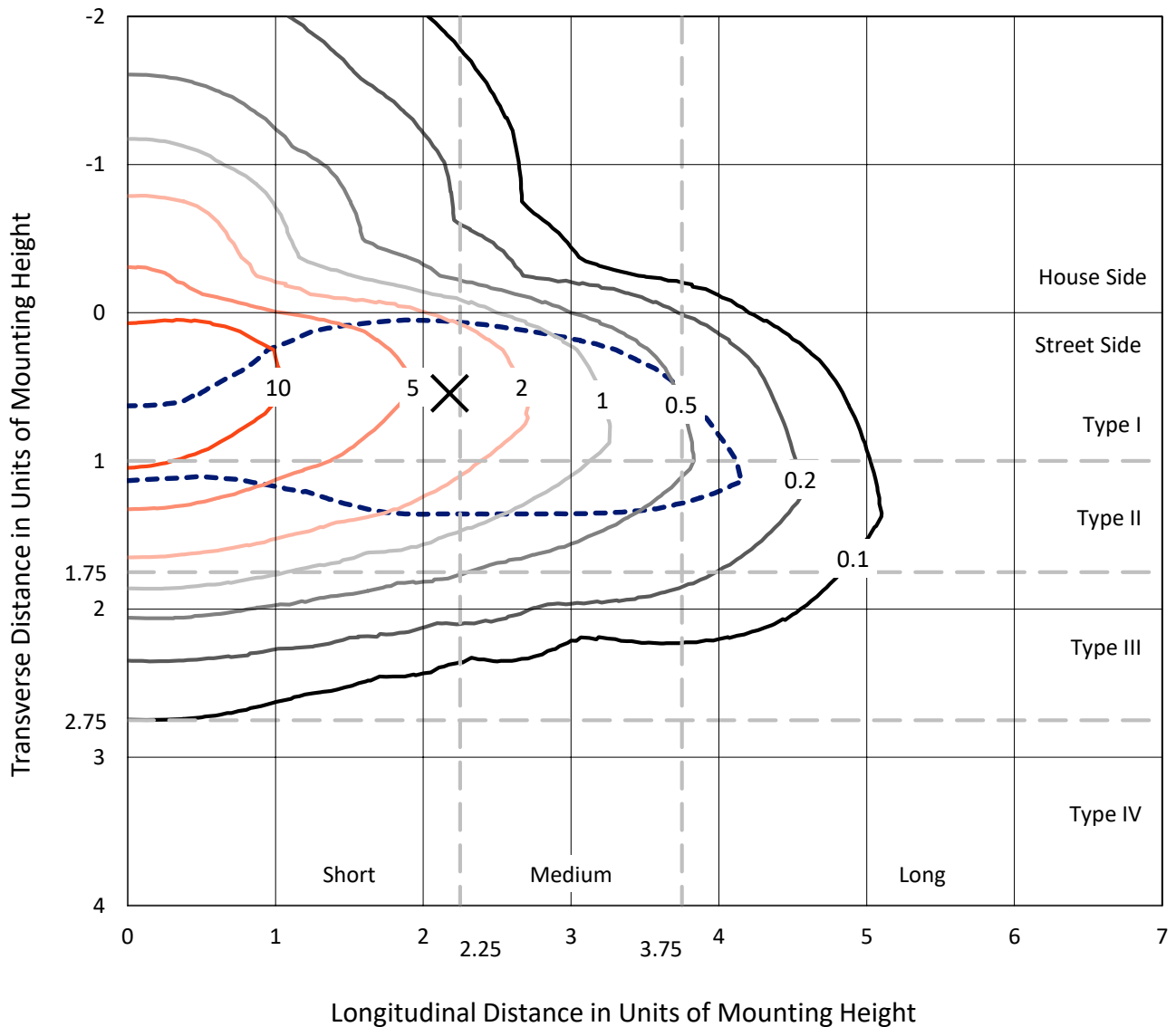
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

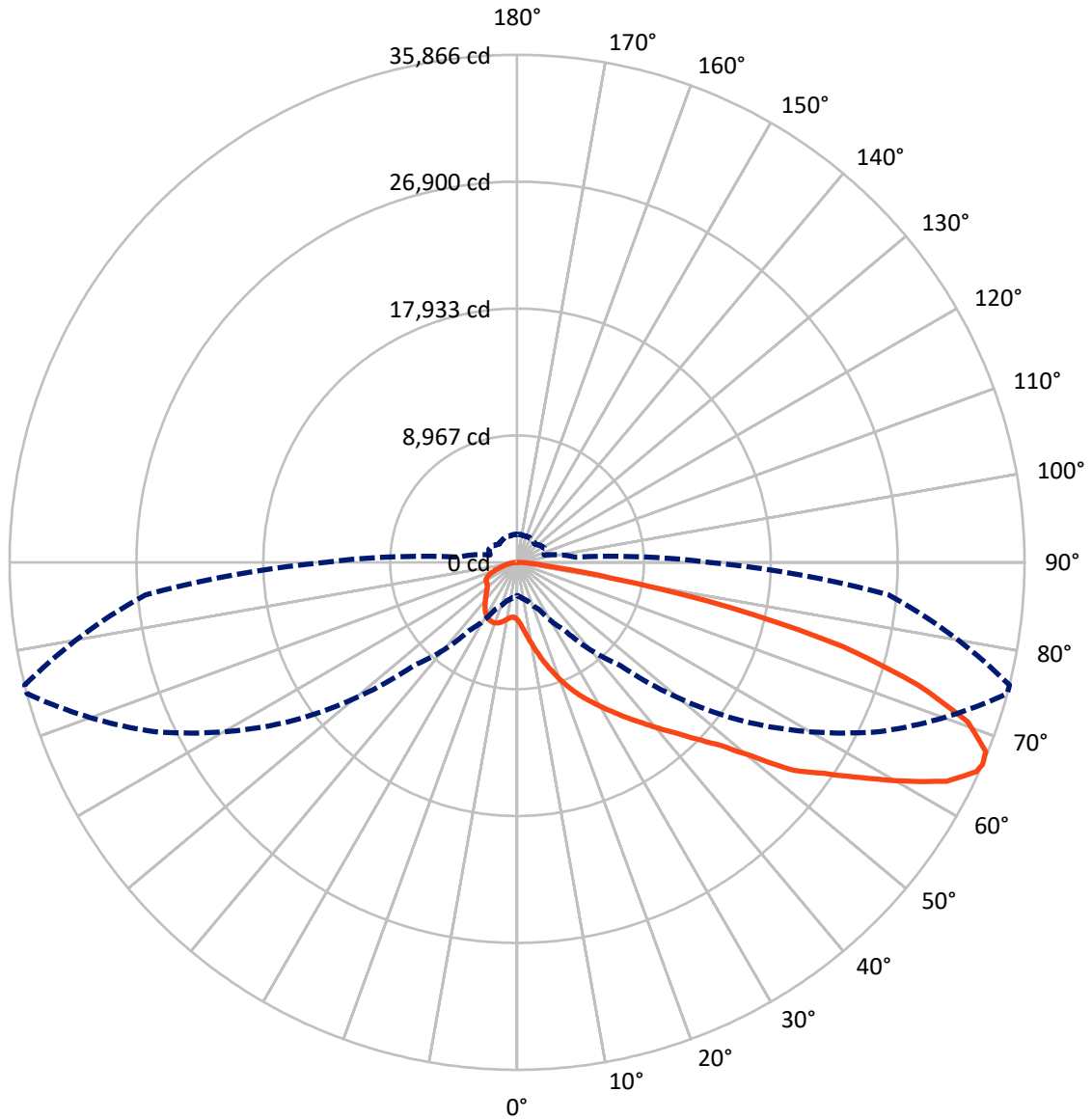
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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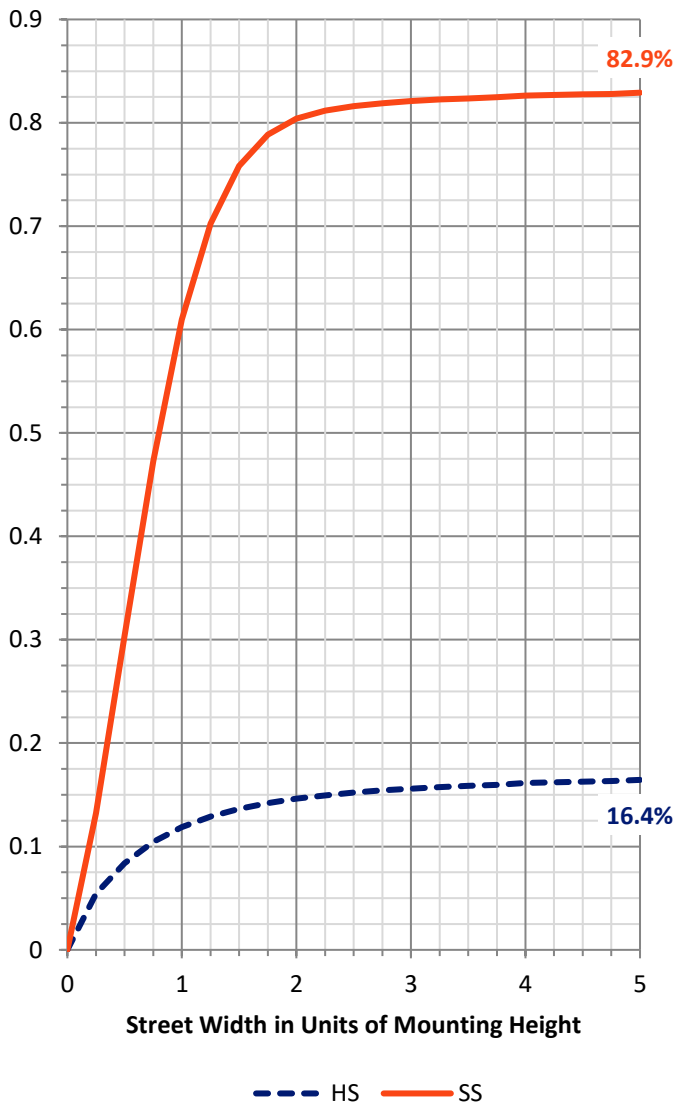
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7479.0	0.0	7479.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	36968.8	0.0	36968.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	44447.9	0.0	44447.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.9	1.1
10°-20°	1938.4	4.4
20°-30°	3766.7	8.5
30°-40°	6148.1	13.8
40°-50°	8399.7	18.9
50°-60°	9784.0	22.0
60°-70°	8771.5	19.7
70°-80°	4432.8	10.0
80°-90°	715.8	1.6
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°	44447.9	100.0
0°-180°	44447.9	100.0

Coefficient of Utilization



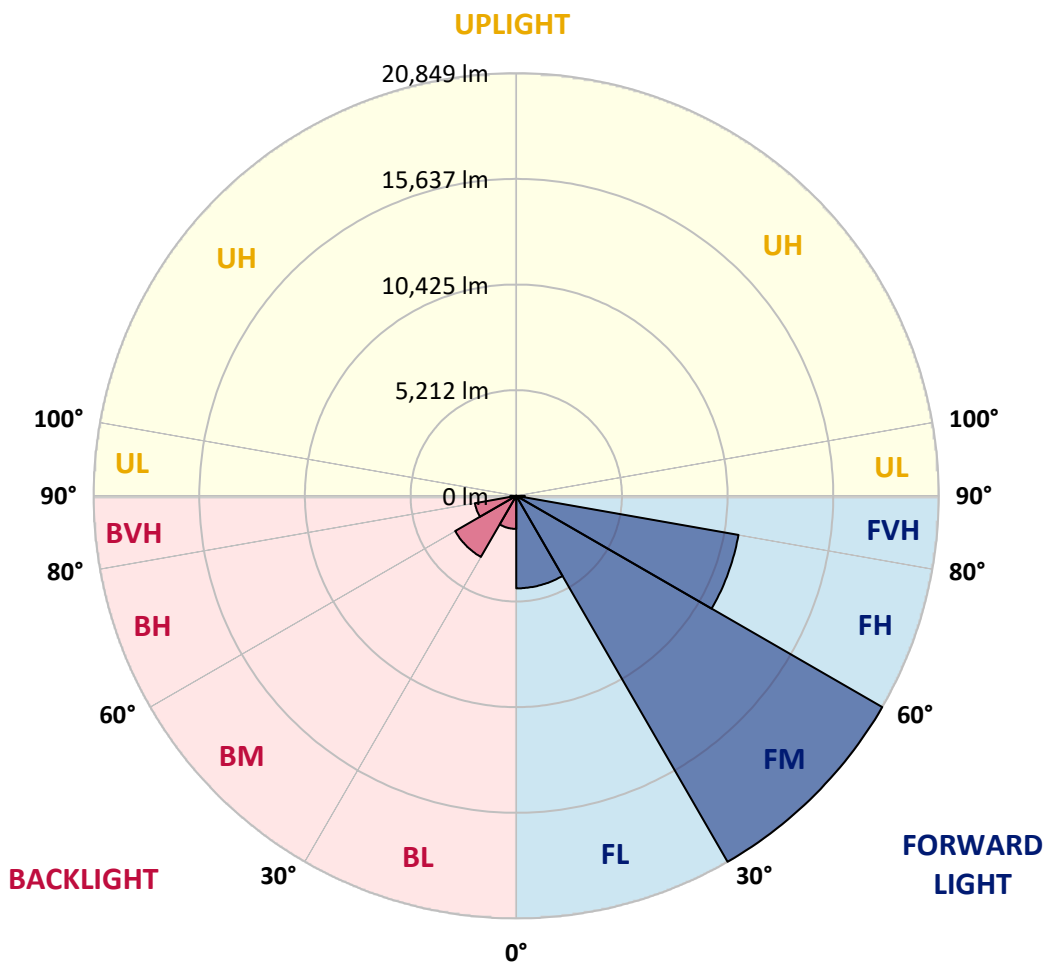
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4564.7	10.3			
FM (30°-60°)	20849.1	46.9			
FH (60°-80°)	11132.3	25.0			G4/12000
FVH (80°-90°)	422.7	1.0			G3/500
BL (0°-30°)	1631.2	3.7	B3/2500		
BM (30°-60°)	3482.7	7.8	B3/5000		
BH (60°-80°)	2072.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	293.1	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4059.1	4059.1	4059.1	4059.1	4059.1	4059.1	4059.1	4059.1	4059.1	4059.1	4059.1
2.5°	5388.4	5307.0	5299.5	5180.2	5153.0	4925.3	4757.7	4582.7	4383.5	4344.3	4187.4
5°	6921.6	6914.0	6809.9	6615.3	6462.9	6073.5	5688.8	5281.3	4834.7	4762.3	4409.2
7.5°	8300.7	8288.7	8208.7	7999.0	7778.7	7300.4	6751.1	6126.3	5402.0	5294.9	4709.4
10°	9348.0	9343.4	9316.3	9162.4	8975.3	8516.6	7910.0	7057.4	6061.5	5915.1	5085.2
12.5°	10156.8	10165.8	10184.0	10129.6	10040.6	9649.8	9028.1	8044.3	6764.6	6619.8	5503.1
15°	10704.5	10731.7	10825.2	10902.2	10948.9	10709.1	10107.0	9053.7	7552.3	7378.8	5966.4
17.5°	10980.7	11010.9	11172.3	11404.7	11619.0	11594.8	11116.4	10016.5	8308.3	8140.8	6464.4
20°	11219.1	11241.7	11422.8	11701.9	12080.7	12248.2	11979.6	10943.0	9136.7	8937.5	6992.5
22.5°	11910.2	11938.9	11993.2	12151.7	12486.7	12794.4	12664.7	11819.7	9895.7	9710.2	7493.5
25°	13244.1	13278.8	13161.1	13026.9	13090.2	13304.5	13328.6	12619.4	10665.3	10455.6	8032.2
27.5°	14851.1	14900.9	14700.3	14354.7	14053.0	13970.0	13941.3	13274.3	11400.2	11157.2	8564.8
30°	16425.0	16511.0	16249.9	15801.7	15248.0	14858.6	14570.5	13915.6	12124.5	11892.0	9067.3
32.5°	17962.7	17927.9	17549.1	17111.6	16462.7	15975.3	15278.2	14603.7	12939.3	12672.2	9566.8
35°	19015.9	19028.0	18676.3	18157.3	17538.6	17164.4	16225.8	15346.1	13770.7	13524.8	10134.1
37.5°	19912.2	19856.3	19458.0	18973.6	18440.9	18281.0	17334.9	16163.9	14671.6	14403.0	10737.8
40°	20210.9	20146.1	19885.0	19536.4	19109.4	19095.9	18558.7	17090.5	15690.1	15424.6	11418.3
42.5°	20029.9	19946.9	19839.7	19744.7	19613.5	19673.7	19708.5	18176.9	16809.8	16512.5	12206.0
45°	19361.4	19236.2	19311.6	19518.3	19803.6	20144.5	20746.7	19379.5	18063.7	17814.7	13130.9
47.5°	18333.8	18220.6	18456.0	18898.2	19673.7	20536.9	21729.0	20707.4	19560.6	19313.1	14448.2
50°	16888.2	16921.5	17257.9	18062.2	19234.7	20718.0	22939.2	22465.3	21736.5	21505.6	16245.4
52.5°	14516.1	14522.2	15469.8	16790.1	18456.0	20624.4	23610.6	24712.2	24707.6	24428.5	17956.6
55°	12313.1	12447.3	13197.3	14952.3	17194.6	20250.2	24079.9	25804.7	26658.7	26331.3	19551.5
57.5°	10161.3	10239.8	10950.5	12712.9	15394.4	19252.8	24561.3	27116.0	28907.0	28700.3	21534.3
60°	7713.8	7834.5	8569.4	10197.6	13091.7	17482.7	24606.6	28484.6	31594.6	31386.3	23747.9
62.5°	5006.7	5215.0	5903.0	7428.6	10306.2	14937.2	23556.3	29379.3	34141.7	34067.7	25712.6
65°	2877.6	3034.5	3512.9	4689.9	7110.2	11741.2	21059.0	29035.3	35709.5	35667.2	26447.5
66°	2350.9	2449.0	2815.7	3665.3	5866.8	10310.7	19607.4	28309.5	35864.9	35866.4	26363.0
67.5°	1880.1	1923.9	2088.4	2624.1	4329.2	8172.5	17013.5	26708.5	35671.8	35724.6	25818.2
70°	1555.8	1578.4	1629.6	1759.4	2363.1	4928.3	12076.2	22548.3	33732.7	33773.4	23692.1
72.5°	1395.8	1409.3	1429.0	1447.1	1667.4	2753.8	7375.8	18038.0	29575.5	29628.3	20452.4
75°	1264.5	1272.0	1269.0	1270.5	1398.8	1754.9	3811.6	13467.5	23913.9	23808.3	15667.5
77.5°	1110.6	1118.1	1103.0	1106.0	1237.4	1349.0	1896.7	9427.9	16138.3	15392.9	8827.4
80°	938.5	944.6	938.5	949.2	1077.4	1018.6	1103.0	5304.0	7135.8	6749.5	3138.7
82.5°	709.2	734.9	753.0	795.3	887.3	724.3	737.9	2065.8	2172.9	2068.8	962.8
85°	310.9	378.8	567.4	608.1	667.0	434.6	484.4	842.0	884.2	857.1	350.1
87.5°	81.5	89.1	280.7	353.1	369.7	196.2	252.0	383.2	404.4	383.2	116.2
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°	4059.1	4059.1	4059.1	4059.1	4059.1	4059.1	4059.1	4059.1	4059.1	4059.1	4059.1
2.5°	4104.4	4030.4	3897.6	3779.9	3690.9	3630.5	3570.2	3540.0	3521.9	3503.8	3506.8
5°	4235.7	4086.2	3858.4	3696.9	3606.4	3549.1	3518.9	3506.8	3499.3	3481.2	3481.2
7.5°	4433.3	4222.1	3908.2	3742.2	3671.3	3627.5	3609.5	3603.4	3594.4	3573.2	3576.2
10°	4682.3	4386.6	4012.3	3850.8	3786.0	3737.6	3712.0	3703.0	3686.4	3662.2	3665.3
12.5°	4975.0	4590.2	4149.7	3980.6	3902.2	3837.2	3795.0	3769.4	3740.7	3709.0	3710.5
15°	5294.9	4812.1	4297.5	4096.9	3989.7	3899.2	3831.3	3787.5	3742.2	3703.0	3701.5
17.5°	5619.4	5026.4	4410.7	4160.2	4015.3	3896.1	3804.1	3736.2	3680.4	3632.1	3627.5
20°	5969.5	5219.5	4474.0	4154.1	3967.1	3825.2	3703.0	3618.5	3556.6	3508.3	3500.8
22.5°	6325.6	5400.6	4484.7	4092.3	3859.9	3686.4	3558.1	3464.5	3401.2	3351.4	3333.3
25°	6651.4	5540.8	4440.9	3973.1	3710.5	3523.4	3398.2	3303.1	3251.8	3193.0	3174.8
27.5°	6948.8	5638.9	4353.3	3820.6	3543.0	3359.0	3241.2	3159.7	3103.9	3058.6	3043.6
30°	7215.9	5691.8	4209.9	3639.6	3371.0	3203.5	3103.9	3048.1	2999.8	2942.5	2931.9
32.5°	7469.3	5691.8	4025.9	3442.0	3200.5	3066.2	3007.3	2972.7	2918.4	2862.5	2847.4
35°	7722.8	5657.1	3808.6	3235.2	3043.6	2968.1	2965.1	2924.3	2841.4	2766.0	2746.3
37.5°	7989.9	5586.1	3564.2	3042.1	2915.3	2924.3	2950.0	2859.5	2741.7	2634.6	2606.0
40°	8291.7	5488.1	3310.6	2874.6	2808.2	2904.8	2909.2	2766.0	2536.5	2438.5	2412.8
42.5°	8646.3	5390.0	3075.2	2726.6	2723.7	2845.9	2832.3	2563.7	2426.4	2376.6	2363.1
45°	9112.6	5334.1	2851.9	2586.3	2657.2	2750.9	2701.0	2452.0	2394.7	2366.0	2353.9
47.5°	9847.5	5362.8	2646.7	2474.7	2590.9	2655.7	2456.6	2406.7	2366.0	2331.3	2319.3
50°	10767.9	5346.2	2480.7	2397.7	2515.5	2556.2	2346.4	2348.0	2326.8	2287.6	2269.4
52.5°	11460.6	5216.5	2373.6	2353.9	2449.0	2379.6	2277.0	2290.6	2280.1	2222.7	2203.1
55°	12129.0	5104.8	2319.3	2337.3	2400.8	2159.3	2195.6	2228.7	2218.2	2162.3	2153.3
57.5°	12960.4	5083.6	2286.1	2341.9	2360.0	2049.1	2117.0	2160.8	2153.3	2129.1	2124.6
60°	13979.0	5089.7	2255.9	2349.5	2314.7	1967.7	2043.2	2099.0	2103.5	2099.0	2096.0
62.5°	14538.8	4925.3	2180.5	2328.3	2234.8	1896.7	1966.1	2047.6	2049.1	2058.3	2056.7
65°	14063.5	4433.3	2040.1	2254.3	2100.5	1837.9	1899.8	1988.8	1966.1	2006.9	2006.9
66°	13601.7	4149.7	1970.7	2206.1	2043.2	1815.3	1878.7	1958.6	1930.0	1985.8	1985.8
67.5°	12658.6	3671.3	1845.5	2103.5	1961.7	1783.5	1854.5	1908.8	1869.6	1952.6	1946.6
70°	10935.4	2839.8	1593.4	1871.1	1827.3	1736.8	1821.3	1809.3	1751.9	1878.7	1854.5
72.5°	9219.7	2157.8	1279.6	1566.3	1623.6	1678.0	1774.5	1682.5	1610.1	1699.0	1646.2
75°	7154.0	1622.1	1011.0	1217.7	1371.6	1585.9	1718.7	1536.1	1432.0	1422.9	1394.2
77.5°	3867.4	1113.6	801.2	929.5	1089.4	1471.2	1681.0	1379.2	1222.3	1186.0	1163.4
80°	1531.6	724.3	582.5	704.7	762.0	1305.3	1590.4	1196.6	1008.0	971.8	937.0
82.5°	632.2	428.5	375.7	472.3	496.4	1116.6	1427.5	980.8	778.6	1077.4	1143.8
85°	271.6	235.4	223.3	244.4	280.7	783.2	1136.2	748.4	840.4	750.0	596.0
87.5°	81.5	99.6	95.0	93.5	102.6	187.1	605.1	416.5	617.2	233.9	175.0
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)