

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: P383582

Luminaire Tested: **GLEON-SA8D-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383582
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-SA8D-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 59429 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

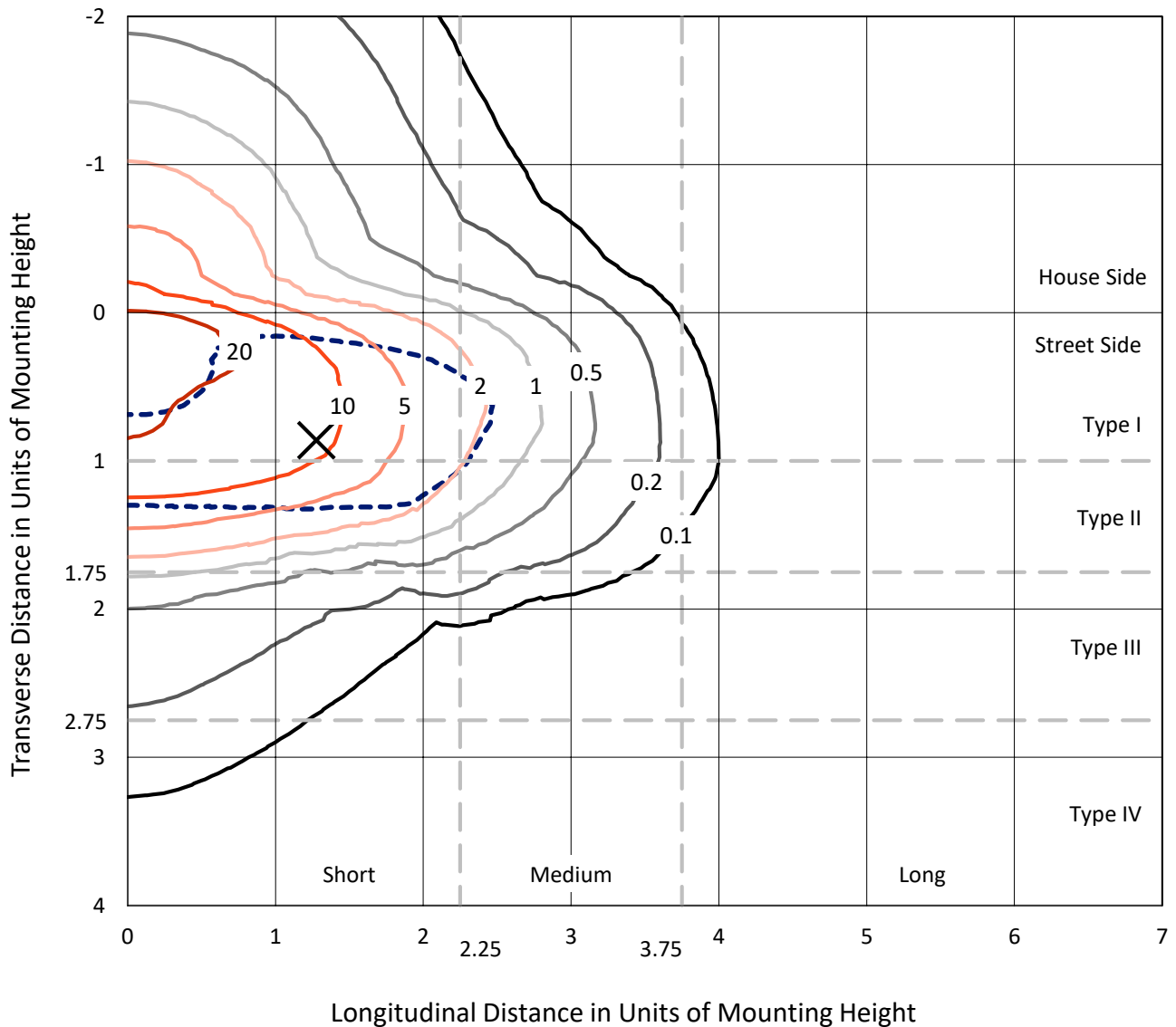
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

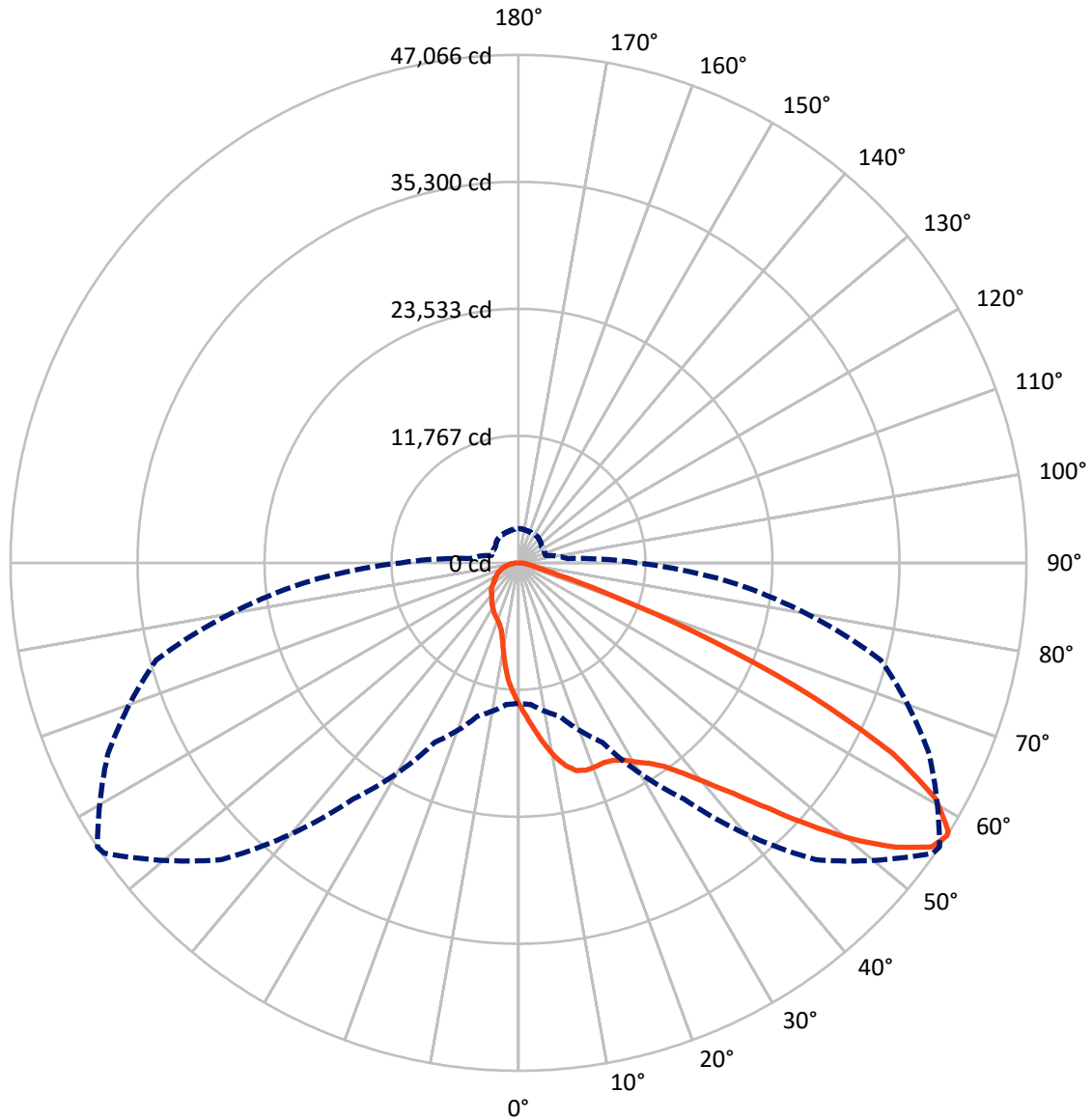
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.2 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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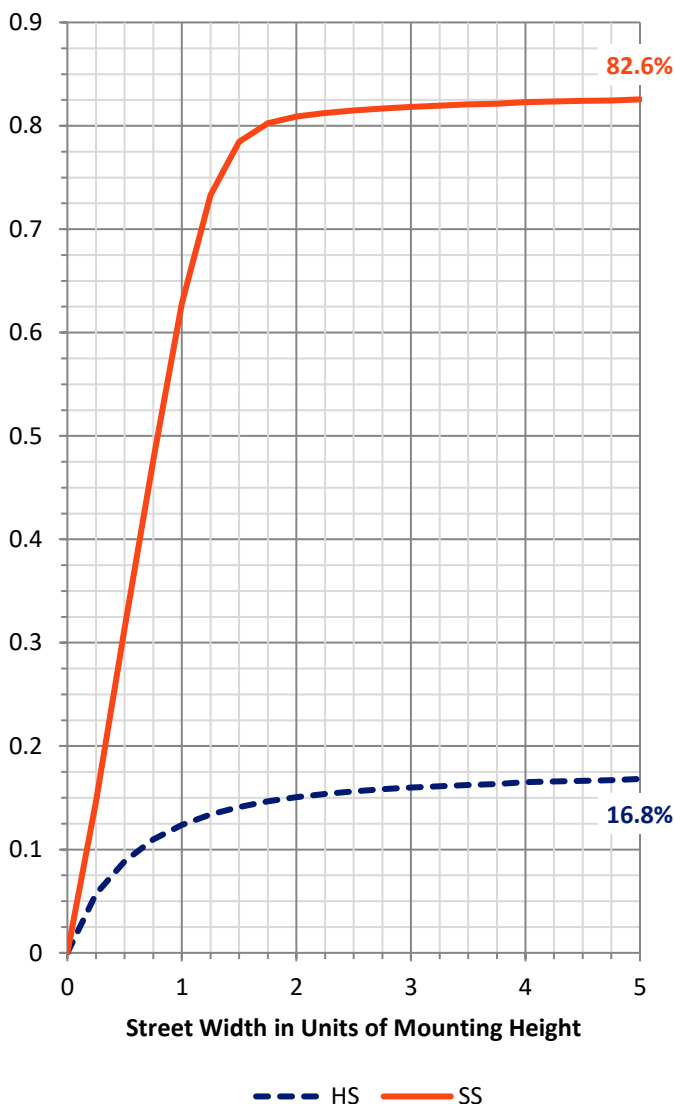
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10244.3	0.0	10244.3
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	49184.7	0.0	49184.7
	% Fixture	82.8	0.0	82.8
Total	Lumens	59429.0	0.0	59429.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1259.2	2.1
10°-20°	3559.9	6.0
20°-30°	5798.4	9.8
30°-40°	8668.0	14.6
40°-50°	13147.5	22.1
50°-60°	14736.1	24.8
60°-70°	8703.7	14.6
70°-80°	2851.7	4.8
80°-90°	704.5	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°	59429.0	100.0
0°-180°	59429.0	100.0

Coefficient of Utilization



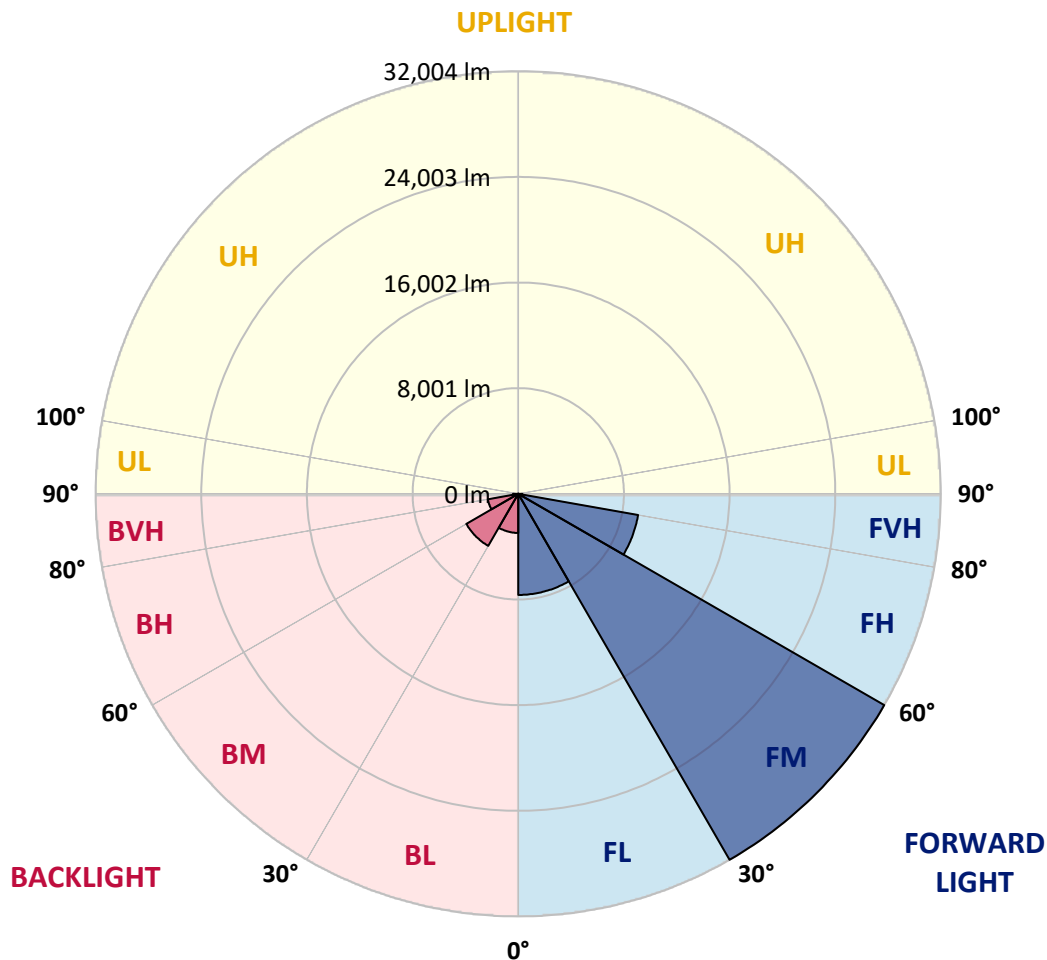
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7655.4	12.9			
FM (30°-60°)	32004.5	53.9			
FH (60°-80°)	9214.7	15.5			G4/12000
FVH (80°-90°)	310.2	0.5			G3/500
BL (0°-30°)	2962.2	5.0	B4/5000		
BM (30°-60°)	4547.1	7.7	B3/5000		
BH (60°-80°)	2340.7	3.9	B3/2500		G3/2500
BVH (80°-90°)	394.3	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	13181.4	13181.4	13181.4	13181.4	13181.4	13181.4	13181.4	13181.4	13181.4	13181.4	13181.4
2.5°	15136.0	15274.9	15213.6	15001.2	14837.8	14606.9	14349.7	14272.1	14000.4	13696.1	13330.5
5°	17531.6	17462.2	17362.1	17031.3	16682.1	16275.6	15630.2	15528.1	14923.6	14235.3	13508.2
7.5°	18896.0	18889.8	18830.6	18636.5	18318.0	17787.0	17008.8	16888.3	15975.4	14868.4	13741.0
10°	18697.8	18683.5	18781.6	18983.7	19079.8	18969.5	18313.9	18193.4	17072.1	15569.0	14010.6
12.5°	17572.5	17580.6	17737.9	18162.8	18740.7	19435.2	19329.0	19269.7	18209.7	16361.3	14337.4
15°	16696.3	16714.7	16839.3	17208.9	17891.1	19151.2	19945.7	19966.1	19310.5	17235.5	14719.3
17.5°	16312.3	16351.2	16408.4	16667.7	17292.7	18585.5	20092.7	20203.0	20274.6	18142.3	15087.0
20°	16434.9	16471.6	16488.0	16653.5	17166.1	18242.4	19990.6	20188.8	21013.9	18996.0	15454.6
22.5°	16984.3	17006.8	17017.0	17059.9	17458.1	18340.4	19923.3	20131.6	21548.9	19761.9	15732.3
25°	17895.2	17878.8	17813.5	17758.4	18025.9	18728.5	20078.5	20276.5	21984.0	20456.3	15914.1
27.5°	18985.8	18965.4	18838.8	18687.6	18840.8	19333.0	20525.7	20683.0	22374.1	21105.8	16006.0
30°	20295.0	20241.9	20002.9	19823.1	19882.4	20239.8	21263.0	21406.0	22976.6	21843.1	16095.8
32.5°	21808.4	21751.2	21406.0	21107.8	21107.8	21406.0	22022.8	22141.2	23487.2	22676.4	16240.9
35°	23703.7	23632.2	23182.9	22682.4	22541.6	22692.7	23058.3	23142.0	24406.3	23726.1	16504.3
37.5°	25938.0	25842.0	25259.9	24590.1	24281.6	24273.5	24537.0	24708.5	25874.7	25104.7	16951.7
40°	28178.5	28111.1	27602.5	27075.6	26471.0	26277.0	26683.4	26736.5	27794.5	26816.2	17523.4
42.5°	29910.4	29898.1	29804.2	29873.6	29254.8	28862.7	29181.3	29224.1	30139.1	28668.7	18132.1
45°	30825.4	30845.8	31301.2	32310.2	32539.0	32253.0	32410.2	32422.5	32818.7	30537.4	18689.6
47.5°	30092.2	30198.4	31350.3	33607.1	35479.9	36429.7	36168.2	36319.4	35416.6	32142.7	19126.7
50°	27234.9	27365.6	29326.3	33029.0	36852.4	40471.5	40334.6	40299.9	37512.1	33319.1	19363.6
52.5°	23695.5	23797.6	25415.1	30024.8	35845.5	42705.8	43961.9	43782.1	39374.7	34199.3	19408.6
55°	18305.7	18465.0	20015.1	24028.4	31773.0	41852.1	46629.2	46467.8	41071.9	34660.9	19355.5
57°	13013.9	13181.4	14721.3	18338.4	26728.4	38896.8	46894.7	47066.3	41988.9	34738.5	19414.7
57.5°	11612.9	11784.4	13310.0	16822.9	25155.8	37828.7	46666.0	46951.9	42154.4	34726.3	19447.4
60°	5847.3	5912.6	6884.8	9390.7	15901.8	30582.3	43682.0	44419.4	42303.4	34125.8	19588.3
62.5°	3635.4	3588.4	3557.8	4325.7	7736.5	20280.6	37524.3	38943.8	39450.3	32671.7	19247.3
65°	3196.3	3108.5	2771.4	2710.2	3416.9	9850.3	28258.1	30024.8	33353.8	30380.2	18434.4
67.5°	3002.3	2916.5	2536.6	2307.9	2310.0	3905.0	17543.9	19533.2	25982.9	26505.8	16516.6
70°	2802.1	2724.5	2369.1	2099.5	1966.8	2162.9	8071.4	9580.7	16937.3	20834.2	13804.3
72.5°	2544.8	2491.7	2154.7	1877.0	1736.0	1619.6	3090.1	3649.7	9805.4	13992.2	9586.8
75°	2275.2	2226.2	1938.2	1672.7	1501.1	1274.5	1740.1	1874.9	4981.4	7158.5	4719.9
77.5°	1979.1	1950.5	1723.7	1478.6	1341.8	1055.9	1231.5	1296.9	2136.3	3069.6	2367.1
80°	1574.7	1629.8	1507.2	1317.3	1190.7	845.6	872.1	915.0	1243.8	1499.1	1343.9
82.5°	1025.3	1121.2	1180.5	1070.2	980.4	665.8	627.0	645.4	810.8	915.0	584.1
85°	426.8	479.9	776.1	700.5	651.5	486.1	420.7	428.9	502.4	520.8	238.9
87.5°	189.9	202.2	341.0	320.6	275.7	167.5	179.7	196.1	267.5	253.3	91.9
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°	13181.4	13181.4	13181.4	13181.4	13181.4	13181.4	13181.4	13181.4	13181.4	13181.4	13181.4
2.5°	13193.7	13022.1	12728.0	12403.3	12137.8	11925.4	11711.0	11563.9	11392.3	11300.4	11253.4
5°	13203.8	12866.9	12248.1	11612.9	11045.1	10526.3	10032.1	9652.2	9296.8	9104.9	9051.8
7.5°	13246.8	12740.2	11739.5	10693.8	9684.9	8763.8	8053.0	7607.8	7287.1	7144.2	7103.3
10°	13281.4	12591.2	11110.5	9562.3	8189.9	7256.5	6705.1	6455.9	6345.6	6327.3	6308.8
12.5°	13363.1	12438.0	10448.7	8381.9	7027.8	6382.4	6190.4	6174.0	6204.7	6249.7	6249.7
15°	13491.9	12286.8	9693.0	7368.8	6288.4	6061.8	6100.5	6190.4	6274.2	6343.6	6353.8
17.5°	13585.8	12101.0	8880.2	6558.0	5894.3	5955.6	6094.4	6221.1	6306.9	6374.2	6380.4
20°	13653.2	11813.0	8012.1	5939.2	5667.5	5857.5	6031.1	6143.5	6202.6	6270.1	6280.3
22.5°	13618.5	11427.0	7242.2	5496.0	5483.7	5714.5	5879.9	6014.7	5969.8	5904.4	5947.4
25°	13451.0	10896.0	6449.8	5165.2	5289.7	5522.6	5726.8	5636.9	5485.8	5457.2	5473.5
27.5°	13152.8	10218.0	5716.5	4858.8	5065.1	5344.8	5332.6	5242.7	5189.7	5152.9	5175.3
30°	12832.2	9482.7	5075.3	4591.2	4815.9	5046.7	4999.7	4997.7	4944.6	4885.3	4913.9
32.5°	12515.6	8743.3	4566.7	4370.6	4628.0	4658.7	4760.8	4791.4	4687.3	4562.6	4554.4
35°	12239.9	8044.8	4180.7	4170.5	4401.3	4405.4	4554.4	4511.6	4252.2	4123.5	4123.5
37.5°	12033.6	7348.4	3886.6	3990.7	4103.1	4209.3	4284.8	4107.2	4064.3	3992.8	3990.7
40°	11943.7	6735.7	3702.8	3853.9	3892.8	4027.5	3833.5	3903.0	3923.4	3886.6	3886.6
42.5°	11849.8	6202.6	3543.5	3749.8	3743.6	3725.3	3627.3	3717.1	3798.8	3800.8	3794.8
45°	11755.9	5743.1	3402.6	3527.1	3612.9	3414.9	3433.2	3529.2	3643.6	3684.5	3684.5
47.5°	11651.7	5379.6	3273.9	3292.3	3425.0	3292.3	3278.0	3351.5	3486.3	3551.7	3566.0
50°	11422.9	5052.8	3126.8	3086.0	3122.7	3167.7	3179.9	3214.7	3363.7	3468.0	3492.5
52.5°	11106.4	4760.8	2938.9	2896.1	2896.1	3065.6	3122.7	3133.0	3259.6	3384.2	3408.7
55°	10842.9	4574.9	2744.9	2736.8	2728.6	2957.4	3055.4	3071.7	3159.5	3257.5	3269.8
57°	10861.3	4560.6	2595.9	2604.0	2602.0	2847.1	2992.0	3026.8	3071.7	3155.4	3169.8
57.5°	10871.5	4570.8	2563.2	2567.3	2565.2	2816.4	2973.7	3012.4	3047.2	3135.0	3149.3
60°	11024.7	4597.4	2430.4	2385.5	2395.7	2653.0	2869.5	2918.5	2941.0	3057.4	3075.8
62.5°	10797.9	4478.9	2324.2	2216.0	2216.0	2481.5	2724.5	2802.1	2836.8	2994.1	3024.7
65°	10140.4	4146.0	2199.7	2024.0	2044.4	2310.0	2550.9	2677.5	2730.6	2926.7	2959.3
67.5°	9125.3	3760.0	2066.8	1852.4	1872.9	2130.2	2371.2	2508.0	2591.8	2853.1	2879.7
70°	7803.9	3288.2	1887.1	1670.6	1695.1	1934.1	2158.8	2314.0	2438.6	2783.7	2791.9
72.5°	5753.3	2695.9	1635.9	1470.5	1497.1	1705.4	1944.3	2124.0	2291.5	2610.1	2606.1
75°	3420.9	2107.7	1358.2	1268.3	1286.7	1480.7	1750.3	1968.8	2220.1	2542.8	2581.5
77.5°	2075.0	1586.9	1107.0	1062.1	1084.5	1282.6	1611.4	1844.3	2189.4	2397.7	2385.5
80°	1254.0	1133.5	884.3	855.7	878.2	1096.7	1490.9	1750.3	1913.7	2048.5	2048.5
82.5°	655.6	692.3	649.5	627.0	657.7	890.5	1356.1	1527.6	1691.0	1452.1	1356.1
85°	267.5	361.5	394.1	392.1	410.5	616.8	1170.3	1307.1	1090.7	1035.5	1060.0
87.5°	89.9	153.1	192.0	165.4	173.6	388.1	810.8	631.1	749.5	522.9	496.3
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)