

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: P383344

Luminaire Tested: **GLEON-SA6C-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6C-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31810.5 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

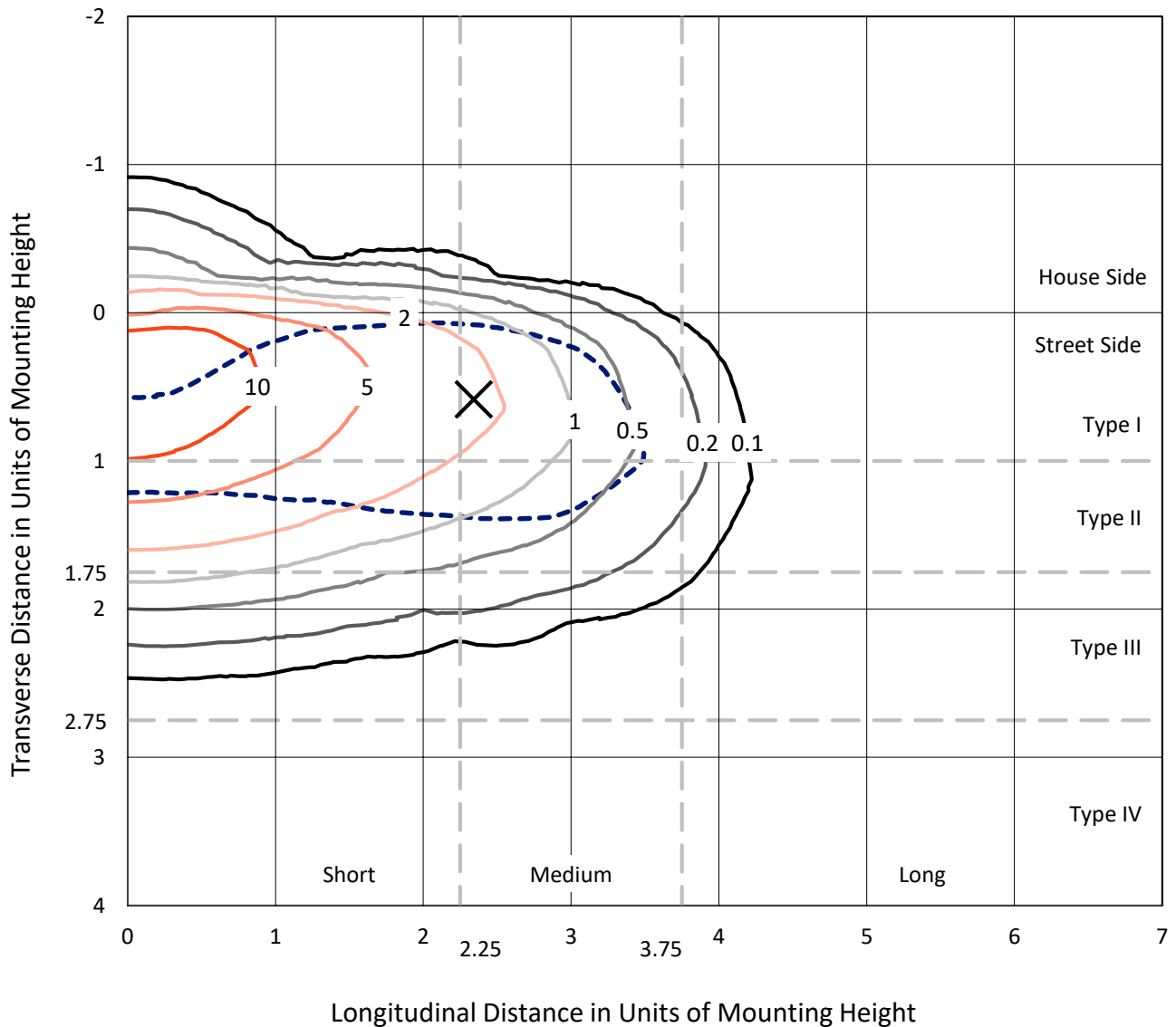
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

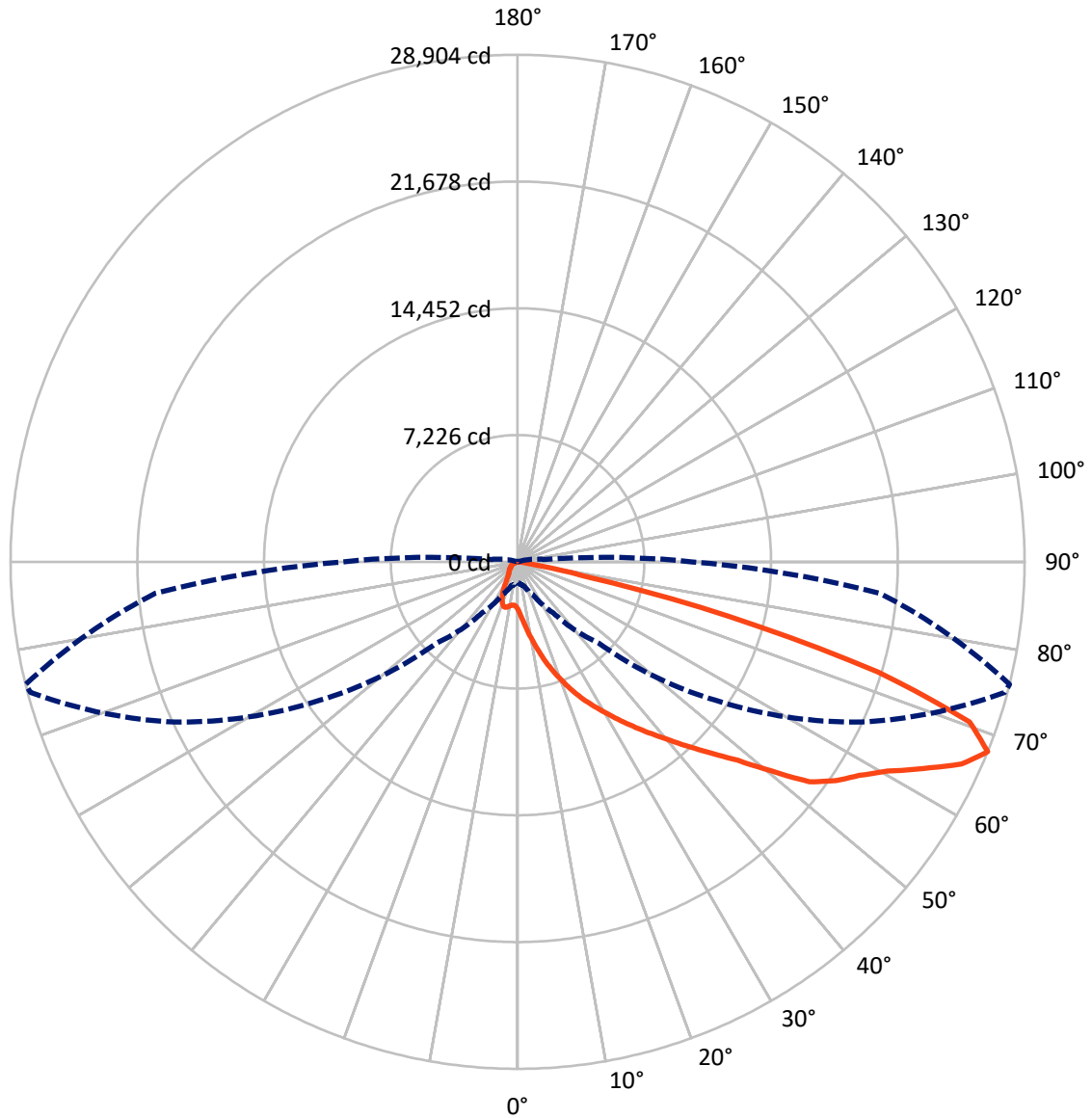
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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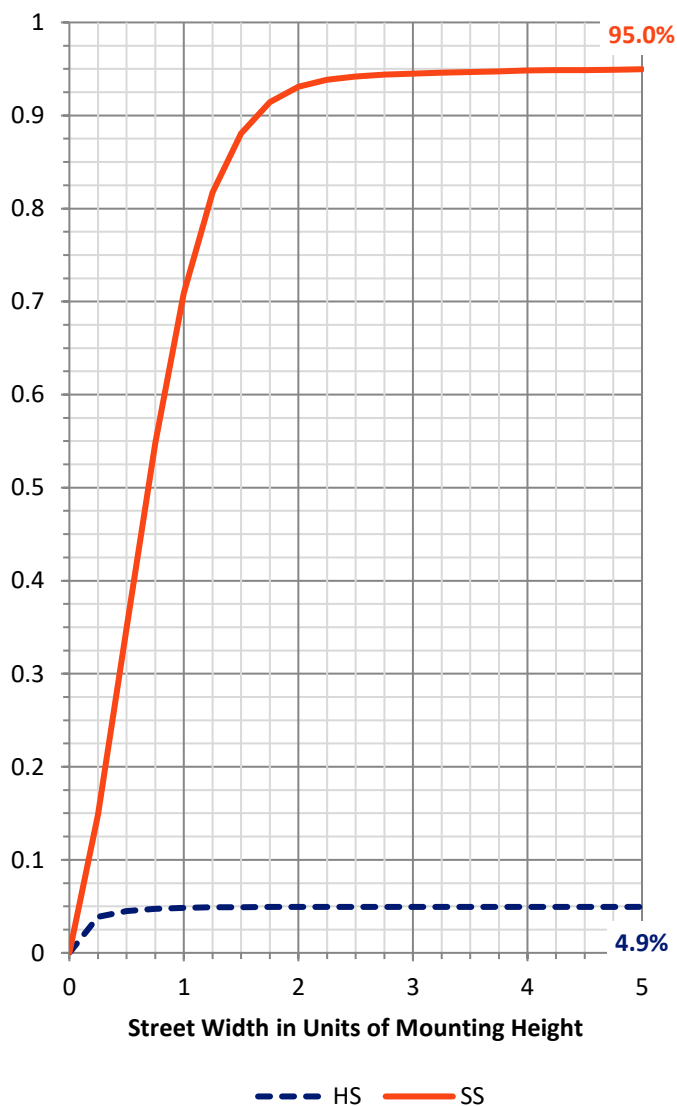
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1579.6	0.0	1579.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	30230.9	0.0	30230.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	31810.5	0.0	31810.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.5	1.1
10°-20°	1330.2	4.2
20°-30°	2706.4	8.5
30°-40°	4697.5	14.8
40°-50°	6637.0	20.9
50°-60°	7526.6	23.7
60°-70°	6242.6	19.6
70°-80°	2261.3	7.1
80°-90°	73.3	0.2
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°	31810.5	100.0
0°-180°	31810.5	100.0

Coefficient of Utilization

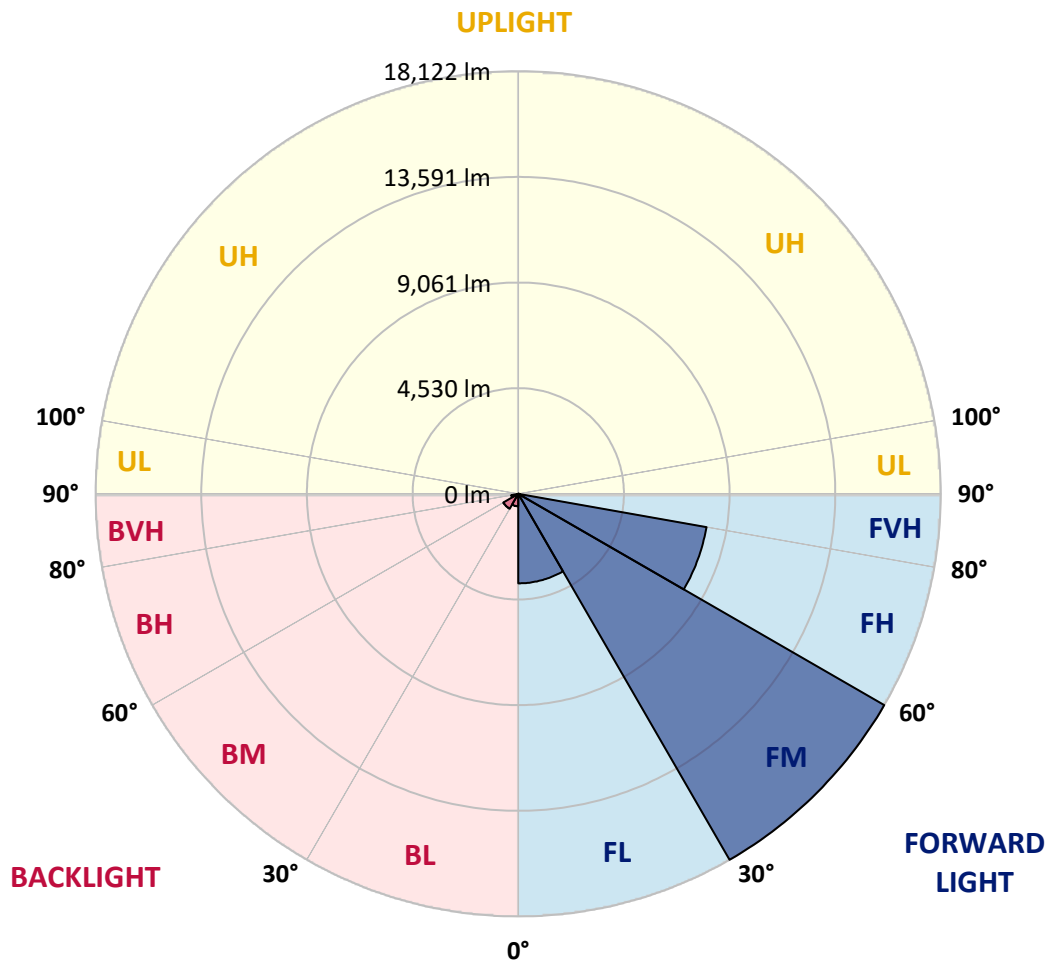


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3839.4	12.1			
FM (30°-60°)	18121.8	57.0			
FH (60°-80°)	8198.6	25.8			G4/12000
FVH (80°-90°)	71.0	0.2			G1/100
BL (0°-30°)	532.7	1.7	B2/1000		
BM (30°-60°)	739.3	2.3	B1/1000		
BH (60°-80°)	305.3	1.0	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4
2.5°	4028.2	3937.6	3958.4	3899.9	3794.0	3576.6	3391.2	3215.5	3010.7	3003.7	2835.1
5°	5431.8	5355.1	5345.3	5226.8	5034.5	4665.1	4305.5	3895.7	3438.5	3405.1	3046.9
7.5°	6705.7	6644.4	6622.1	6481.3	6123.1	5763.5	5295.2	4693.0	3978.0	3916.7	3332.6
10°	7684.1	7654.9	7660.5	7560.2	7253.5	6919.0	6304.2	5536.3	4589.9	4495.1	3675.5
12.5°	8425.7	8432.6	8482.9	8421.5	8250.1	8002.0	7345.4	6435.3	5267.2	5137.7	4067.2
15°	8970.7	9005.6	9097.5	9174.2	9161.6	8947.0	8344.8	7348.2	5986.5	5842.9	4503.5
17.5°	9323.3	9362.3	9496.1	9666.2	9822.3	9772.1	9309.4	8229.2	6714.0	6548.2	4970.4
20°	9632.8	9678.8	9822.3	10046.7	10338.0	10400.7	10096.9	9083.6	7440.3	7238.1	5452.6
22.5°	10303.2	10301.8	10389.6	10520.6	10797.9	10959.7	10767.3	9876.6	8158.0	7947.6	5944.7
25°	11515.8	11469.8	11439.1	11336.0	11397.3	11497.7	11390.4	10618.2	8880.1	8666.8	6443.7
27.5°	12957.0	12984.9	12736.8	12459.4	12244.8	12141.6	11966.0	11305.4	9574.2	9340.1	6931.5
30°	14477.6	14486.0	14193.3	13839.4	13366.8	12975.2	12671.3	11961.8	10287.8	10032.8	7405.4
32.5°	15849.3	15794.9	15505.0	15022.7	14426.1	13985.7	13354.3	12694.9	11043.3	10796.6	7932.3
35°	16936.4	16872.3	16519.7	16080.6	15461.7	15018.5	14258.8	13426.8	11837.7	11596.6	8460.5
37.5°	17730.9	17655.6	17293.2	16841.6	16307.8	16049.9	15308.4	14222.6	12704.7	12445.5	9016.6
40°	18006.8	17941.3	17714.1	17383.8	16954.5	16895.9	16422.1	15138.4	13648.4	13372.4	9646.6
42.5°	17842.4	17778.3	17697.4	17585.9	17407.6	17463.3	17473.0	16182.4	14696.6	14424.7	10342.2
45°	17190.0	17132.9	17216.6	17379.6	17601.2	17877.2	18432.0	17304.3	15867.3	15577.4	11146.4
47.5°	16229.7	16187.9	16419.3	16826.3	17474.4	18235.4	19308.7	18483.6	17181.7	16912.7	12150.0
50°	14863.8	14856.8	15319.6	16062.5	17059.1	18408.3	20214.7	19824.5	19007.7	18724.7	13545.3
52.5°	12736.8	12750.7	13660.9	14849.8	16330.1	18291.2	20797.3	21547.2	21131.8	20837.7	14753.7
55°	10711.6	10795.2	11440.5	13154.9	15212.3	17856.4	20998.0	22351.5	22304.0	22025.2	15425.5
57.5°	8728.1	8880.1	9501.7	11103.2	13580.1	16854.2	20887.9	22699.9	23176.5	22963.3	16312.0
60°	6578.9	6648.5	7365.0	8862.0	11485.1	15025.5	20089.2	22889.4	24369.7	24221.9	17598.4
62.5°	4185.6	4359.9	4995.5	6439.5	8942.8	12485.9	18742.8	22886.6	25862.5	25943.3	19258.5
65°	2205.1	2408.5	2745.8	3990.6	6145.4	9649.4	16717.6	22672.0	27694.0	27806.9	20556.2
67.5°	1188.9	1247.4	1425.9	2071.2	3564.0	6537.0	13741.7	21612.6	28754.6	28903.8	20737.4
70°	869.8	901.8	968.7	1145.7	1793.9	3796.8	10027.2	19211.1	27387.3	27331.6	18425.0
72.5°	667.6	717.9	768.0	839.0	1031.4	2026.6	6243.0	15043.6	21852.4	21484.5	13772.4
75°	526.9	535.3	606.3	670.4	773.6	1154.1	2772.3	8761.6	13337.5	12466.4	7142.0
77.5°	421.0	426.6	468.3	524.1	621.6	758.3	858.6	3446.9	4258.1	3799.6	1549.9
80°	249.5	263.4	348.5	404.2	515.7	478.1	313.7	748.5	664.8	602.2	260.6
82.5°	139.4	150.5	196.6	319.1	359.6	228.6	156.1	202.1	156.1	151.9	73.9
85°	0.0	7.0	126.9	198.0	146.3	50.2	65.5	66.9	46.0	43.2	29.3
87.5°	0.0	0.0	39.0	37.6	5.6	8.4	15.4	22.3	18.2	18.2	15.4
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°	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4
2.5°	2751.4	2676.1	2534.0	2394.6	2277.5	2181.3	2095.0	2060.1	2032.2	2028.0	2005.7
5°	2874.1	2722.2	2450.3	2227.3	2078.2	1972.3	1881.6	1825.9	1782.7	1765.9	1750.7
7.5°	3059.5	2829.5	2439.2	2182.7	2004.3	1825.9	1658.6	1477.4	1364.5	1321.3	1296.2
10°	3285.3	2971.6	2481.0	2170.2	1858.0	1481.6	1204.3	974.3	880.9	850.2	841.8
12.5°	3548.7	3148.6	2553.5	2092.2	1545.7	1052.4	830.8	752.7	731.7	722.0	722.0
15°	3851.1	3342.4	2605.1	1866.4	1142.9	795.9	719.2	683.0	660.7	648.2	649.6
17.5°	4160.6	3532.0	2580.0	1538.8	843.2	708.1	650.9	611.9	581.2	568.7	565.9
20°	4472.8	3707.6	2440.6	1145.7	713.7	642.6	578.4	535.3	504.5	492.0	489.2
22.5°	4796.2	3856.7	2195.3	840.4	641.2	570.1	507.3	464.2	434.8	423.8	418.2
25°	5111.1	3978.0	1852.4	680.2	572.9	501.7	441.8	401.4	374.9	363.8	362.4
27.5°	5405.3	4054.7	1455.2	600.8	512.9	440.4	386.1	349.9	327.5	319.1	317.8
30°	5670.1	4061.6	1076.0	542.2	460.0	387.5	337.3	305.3	285.7	277.4	274.6
32.5°	5937.7	4003.0	783.3	489.2	411.2	341.5	292.7	267.6	253.7	246.7	246.7
35°	6189.9	3867.9	610.5	443.2	363.8	296.9	257.9	239.8	231.4	224.4	224.4
37.5°	6436.7	3674.1	518.5	402.8	319.1	259.2	227.2	216.0	209.0	202.1	202.1
40°	6687.6	3430.2	471.1	365.2	282.9	230.0	202.1	192.4	185.4	179.8	178.4
42.5°	6995.6	3148.6	440.4	330.3	250.9	203.5	178.4	167.2	161.7	156.1	153.3
45°	7352.4	2906.1	415.4	295.5	224.4	181.2	154.7	143.6	135.2	128.3	126.9
47.5°	7866.7	2730.6	381.9	257.9	199.4	157.5	133.8	121.3	108.7	101.7	100.3
50°	8523.3	2585.5	338.7	224.4	174.2	133.8	111.5	96.1	85.1	78.1	78.1
52.5°	8849.4	2396.0	299.7	195.2	146.3	112.9	90.6	72.5	66.9	59.9	59.9
55°	8980.4	2251.0	260.6	165.9	121.3	93.3	71.1	55.7	51.6	47.4	46.0
57.5°	9348.4	2209.3	227.2	140.8	100.3	73.9	54.4	41.8	39.0	33.4	33.4
60°	9940.8	2230.1	196.6	119.9	80.9	57.1	40.4	32.0	29.3	23.7	23.7
62.5°	10580.5	2203.7	165.9	103.1	62.7	41.8	27.9	23.7	23.7	14.0	12.6
65°	10703.2	1962.5	142.2	85.1	48.8	30.6	18.2	15.4	20.9	2.8	0.0
67.5°	9933.8	1522.1	122.7	65.5	36.2	23.7	14.0	7.0	18.2	0.0	0.0
70°	7943.4	967.3	98.9	47.4	27.9	19.5	11.2	2.8	14.0	0.0	0.0
72.5°	5617.1	561.7	78.1	33.4	23.7	15.4	8.4	0.0	8.4	0.0	0.0
75°	2840.7	299.7	48.8	25.1	18.2	11.2	5.6	0.0	1.4	0.0	0.0
77.5°	614.6	139.4	30.6	18.2	12.6	7.0	2.8	0.0	0.0	0.0	0.0
80°	133.8	61.3	19.5	11.2	7.0	4.2	0.0	0.0	0.0	0.0	0.0
82.5°	48.8	32.0	9.8	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.5	16.8	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.0	5.6	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)