

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: P324910

Luminaire Tested: **GLEON-SA6A-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6A-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16774 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

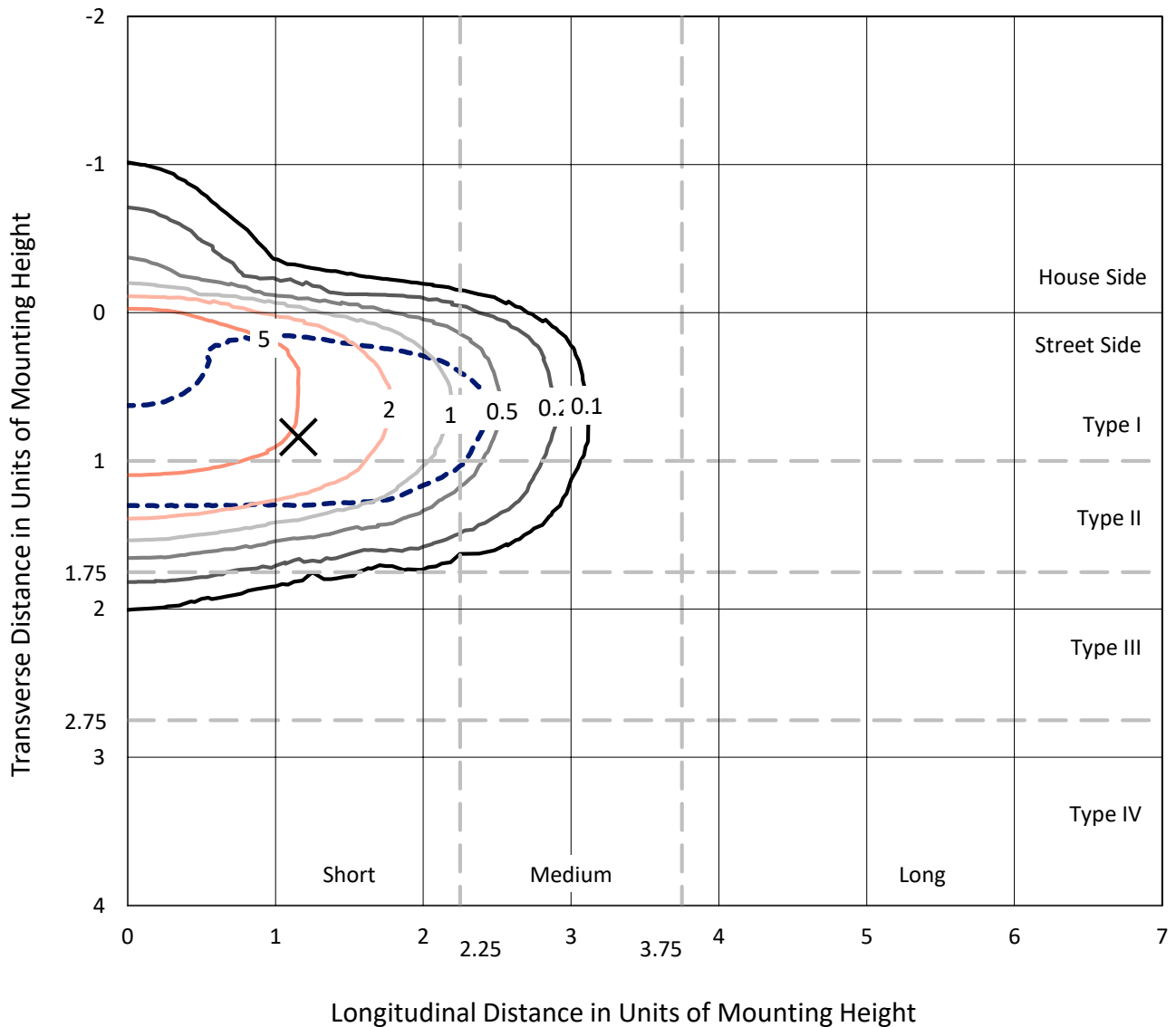
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

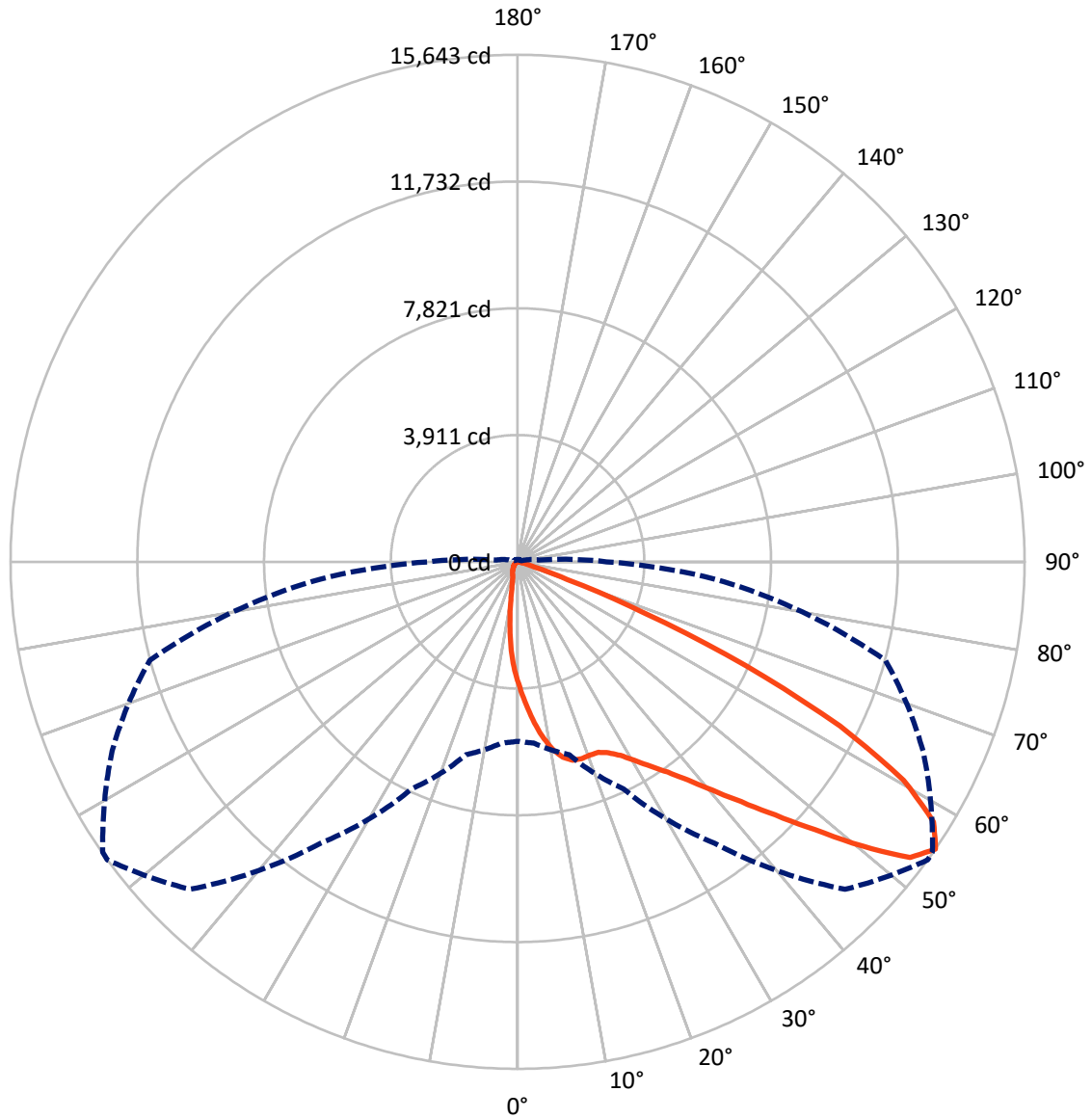
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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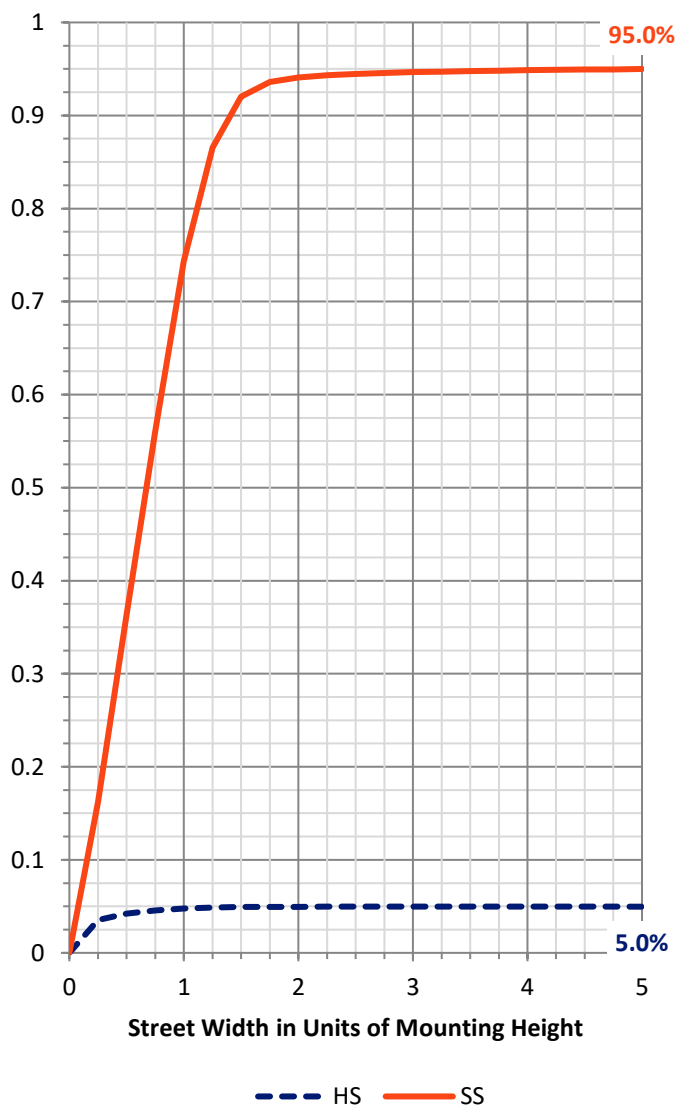
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	836.9	0.0	836.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	15937.1	0.0	15937.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	16774.0	0.0	16774.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.9	2.1
10°-20°	948.8	5.7
20°-30°	1619.9	9.7
30°-40°	2599.6	15.5
40°-50°	4154.2	24.8
50°-60°	4451.4	26.5
60°-70°	2285.5	13.6
70°-80°	346.2	2.1
80°-90°	22.5	0.1
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°	16774.0	100.0
0°-180°	16774.0	100.0

Coefficient of Utilization

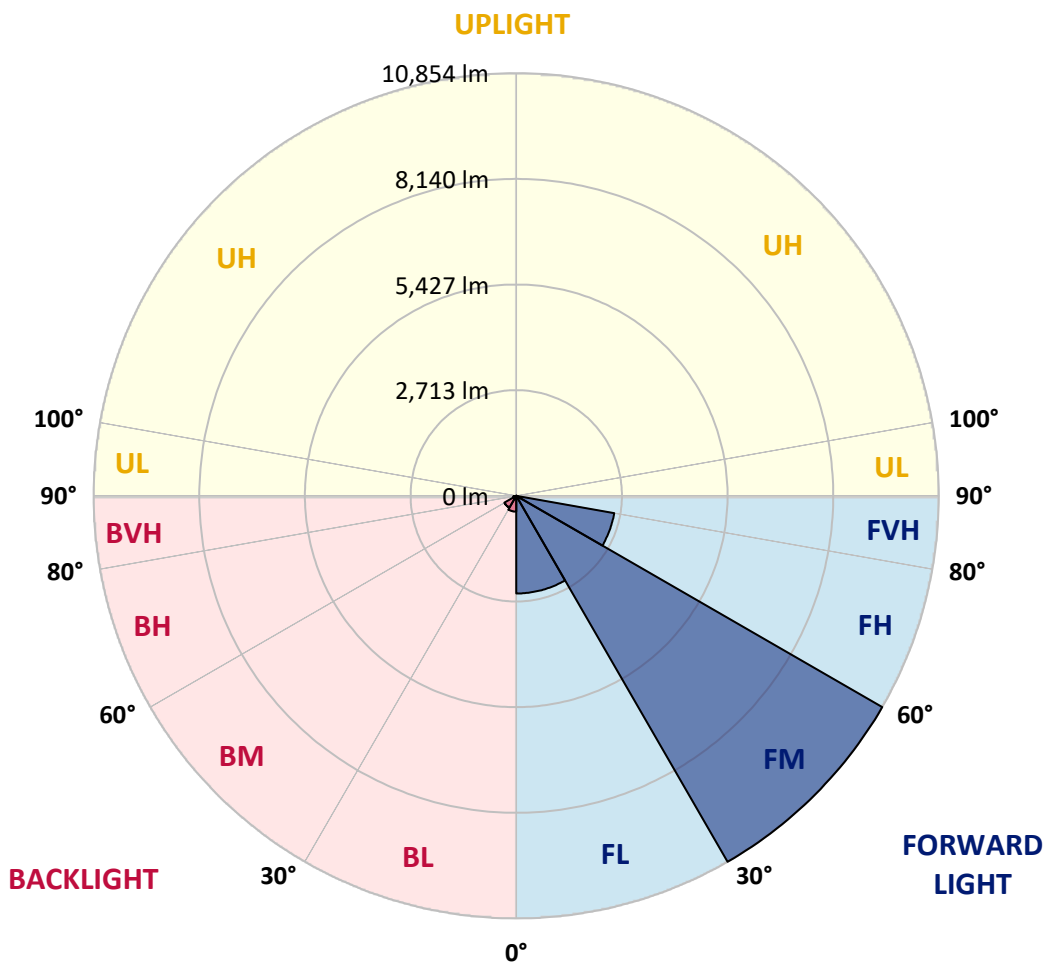


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2507.4	14.9			
FM (30°-60°)	10853.5	64.7			
FH (60°-80°)	2554.5	15.2			G2/5000
FVH (80°-90°)	21.6	0.1			G1/100
BL (0°-30°)	407.2	2.4	B1/500		
BM (30°-60°)	351.7	2.1	B1/1000		
BH (60°-80°)	77.1	0.5	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3756.7	3756.7	3756.7	3756.7	3756.7	3756.7	3756.7	3756.7	3756.7	3756.7	3756.7
2.5°	4714.4	4644.1	4646.3	4614.4	4497.8	4406.5	4311.6	4289.1	4141.4	3986.3	3837.1
5°	5529.3	5477.9	5465.5	5404.0	5241.7	5070.0	4886.0	4843.3	4554.3	4237.0	3924.8
7.5°	5948.0	5948.7	5938.6	5916.1	5814.7	5648.1	5423.5	5378.6	4985.3	4509.3	4016.0
10°	5826.3	5853.8	5910.3	5984.9	6062.4	6041.4	5872.7	5832.1	5404.7	4797.7	4117.5
12.5°	5542.3	5546.0	5609.0	5731.4	5954.5	6183.4	6186.3	6172.6	5805.3	5099.0	4229.0
15°	5401.1	5414.8	5438.0	5517.0	5728.5	6095.0	6357.3	6376.8	6172.6	5419.2	4347.8
17.5°	5493.8	5513.4	5493.8	5503.2	5625.6	5955.2	6387.0	6437.0	6493.5	5735.7	4460.1
20°	5745.2	5763.3	5728.5	5690.1	5714.0	5914.7	6366.0	6433.3	6744.8	6016.8	4554.3
22.5°	6084.2	6091.4	6038.5	5975.5	5958.1	6052.3	6383.4	6452.9	6946.2	6271.1	4613.7
25°	6457.2	6463.8	6397.8	6325.4	6284.1	6322.5	6526.1	6578.2	7123.7	6513.7	4647.7
27.5°	6863.6	6869.4	6786.8	6697.7	6649.9	6651.4	6761.5	6817.3	7312.7	6790.5	4675.2
30°	7293.2	7290.3	7214.2	7090.4	7029.5	7028.1	7100.5	7157.0	7586.6	7145.4	4712.9
32.5°	7775.6	7769.8	7661.9	7508.3	7439.5	7449.7	7514.1	7546.7	7926.3	7523.5	4780.3
35°	8410.9	8394.3	8231.3	8040.8	7914.0	7910.4	7964.7	7990.8	8359.5	7981.4	4892.6
37.5°	9235.3	9220.1	8999.1	8722.4	8544.2	8477.6	8542.0	8575.4	8977.4	8568.8	5072.9
40°	10048.1	10032.8	9901.7	9648.2	9373.6	9213.6	9264.3	9299.8	9748.9	9281.6	5300.4
42.5°	10608.7	10621.8	10667.4	10688.4	10431.3	10095.1	10118.3	10155.3	10559.5	10043.7	5560.4
45°	10756.5	10784.8	11042.6	11549.0	11645.3	11383.1	11140.4	11160.7	11383.1	10805.8	5820.5
47.5°	10312.5	10364.6	10862.3	11804.0	12619.7	12805.1	12345.8	12319.0	12173.4	11422.2	6005.2
50°	9303.4	9351.2	9995.9	11388.9	12915.2	14162.6	13790.3	13711.3	12866.7	11790.9	6070.4
52.5°	7843.0	7901.0	8424.7	10082.1	12358.1	14768.2	15157.9	15092.0	13375.2	11819.9	6081.3
55°	5538.7	5609.0	6163.1	7727.1	10592.8	14286.5	15642.5	15623.0	13797.5	11743.1	6104.5
57.5°	3112.7	3163.4	3761.0	4953.4	7758.3	12443.6	15136.2	15265.9	14052.5	11609.8	6139.2
60°	1382.1	1395.9	1705.2	2465.8	4541.9	9509.8	13686.7	13905.5	13833.7	11431.6	6197.9
62.5°	766.4	754.8	754.8	1025.0	1974.0	5887.1	11160.7	11522.2	12900.0	11220.8	6200.8
65°	600.5	589.7	558.5	562.9	751.9	2612.9	7728.6	8371.1	11126.7	10602.9	5992.2
67.5°	509.2	499.8	468.7	456.4	467.2	862.0	4246.4	4913.6	8442.8	8997.0	5190.3
70°	430.3	423.8	407.8	392.6	365.1	425.9	1624.8	2078.3	5202.6	5984.9	3543.0
72.5°	346.3	343.4	349.2	336.1	302.8	284.0	555.6	673.0	2336.9	2670.8	1459.7
75°	298.4	297.0	299.9	286.9	249.2	197.8	282.5	308.6	659.2	653.4	295.6
77.5°	194.1	196.3	248.5	242.7	214.4	131.8	146.3	157.9	199.9	149.9	89.8
80°	123.9	122.4	126.0	201.4	192.7	100.7	73.2	76.8	96.3	73.9	43.5
82.5°	75.3	73.9	82.6	94.2	97.1	70.3	44.9	45.6	60.1	47.8	23.2
85°	6.5	8.7	50.0	46.4	33.3	21.7	21.7	23.2	31.9	28.3	13.0
87.5°	0.0	0.0	8.7	13.0	7.2	8.0	8.0	8.7	12.3	12.3	6.5
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°	3756.7	3756.7	3756.7	3756.7	3756.7	3756.7	3756.7	3756.7	3756.7	3756.7	3756.7
2.5°	3759.6	3684.3	3532.1	3385.8	3261.9	3142.4	3006.2	2871.5	2808.5	2783.1	2757.0
5°	3766.1	3611.1	3297.4	2981.6	2654.2	2359.3	2108.0	1850.1	1721.2	1664.7	1638.6
7.5°	3774.8	3538.7	3031.6	2501.3	1974.0	1574.1	1224.9	1000.4	903.3	888.1	850.4
10°	3776.3	3451.0	2723.0	1971.1	1323.5	949.0	730.2	614.3	571.5	564.3	552.0
12.5°	3779.2	3347.4	2380.4	1459.7	882.3	634.6	528.1	489.7	478.1	477.4	477.4
15°	3787.9	3238.8	2024.7	1051.8	633.8	502.7	463.6	448.4	444.1	446.2	445.5
17.5°	3787.9	3110.5	1675.5	783.8	512.1	452.0	430.3	420.1	418.7	420.9	421.6
20°	3760.3	2954.8	1355.3	609.9	454.2	419.4	399.9	390.4	386.8	388.3	389.0
22.5°	3694.4	2763.6	1094.6	504.9	415.8	389.7	368.7	354.2	348.4	349.2	349.2
25°	3591.5	2536.8	856.2	436.8	384.7	357.9	333.2	316.6	312.9	312.2	313.7
27.5°	3459.7	2286.2	681.7	384.7	347.7	322.4	297.7	284.0	281.1	281.8	282.5
30°	3330.0	2026.1	537.5	340.5	306.4	282.5	263.7	257.2	257.2	259.3	260.1
32.5°	3211.2	1776.2	425.2	302.1	269.5	247.7	236.9	236.2	239.8	241.2	241.9
35°	3109.1	1545.1	352.1	272.4	240.5	221.7	218.0	220.9	225.3	228.2	228.9
37.5°	3036.7	1338.7	307.9	247.7	218.0	202.8	202.1	207.9	213.7	220.2	221.7
40°	3006.2	1164.1	277.4	226.0	199.9	188.3	186.2	194.1	205.0	214.4	215.9
42.5°	2980.9	1021.4	251.4	205.0	185.4	168.8	168.1	178.2	191.2	200.7	202.8
45°	2959.1	906.9	227.5	182.5	166.6	144.9	147.1	160.1	170.2	180.4	182.5
47.5°	2914.2	812.8	201.4	158.6	137.6	123.9	128.2	139.8	147.8	163.0	165.2
50°	2833.8	736.0	174.6	129.7	112.3	107.2	113.7	121.7	131.8	144.9	146.3
52.5°	2779.5	678.0	151.4	108.7	92.7	94.2	100.7	103.6	109.4	114.5	113.0
55°	2748.3	646.2	132.6	94.2	79.0	83.3	84.8	81.1	78.2	73.2	71.0
57.5°	2744.7	617.2	118.1	81.9	69.5	71.7	66.6	54.3	44.2	38.4	36.9
60°	2738.9	581.7	106.5	68.8	61.6	58.7	47.8	29.7	21.0	19.6	19.6
62.5°	2675.9	526.6	97.8	58.0	52.2	44.2	27.5	13.8	11.6	12.3	12.3
65°	2475.3	449.8	89.1	47.1	41.3	31.9	13.8	8.0	4.3	5.1	5.1
67.5°	2104.4	358.6	79.7	36.2	31.1	20.3	8.0	3.6	0.0	0.0	0.0
70°	1408.9	222.4	67.4	25.4	20.3	12.3	5.8	0.7	0.0	0.0	0.0
72.5°	540.4	120.2	54.3	15.2	13.0	8.7	3.6	0.0	0.0	0.0	0.0
75°	121.7	79.0	37.7	10.9	9.4	5.8	1.4	0.0	0.0	0.0	0.0
77.5°	46.4	57.2	21.7	7.2	6.5	3.6	0.0	0.0	0.0	0.0	0.0
80°	22.5	34.0	10.1	4.3	3.6	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	11.6	13.0	4.3	2.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.5	6.5	2.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	2.2	0.7	0.7	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)