

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: P383624

Luminaire Tested: **GLEON-SA9A-735-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383624  
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-SA9A-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 615mA 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: 31327 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

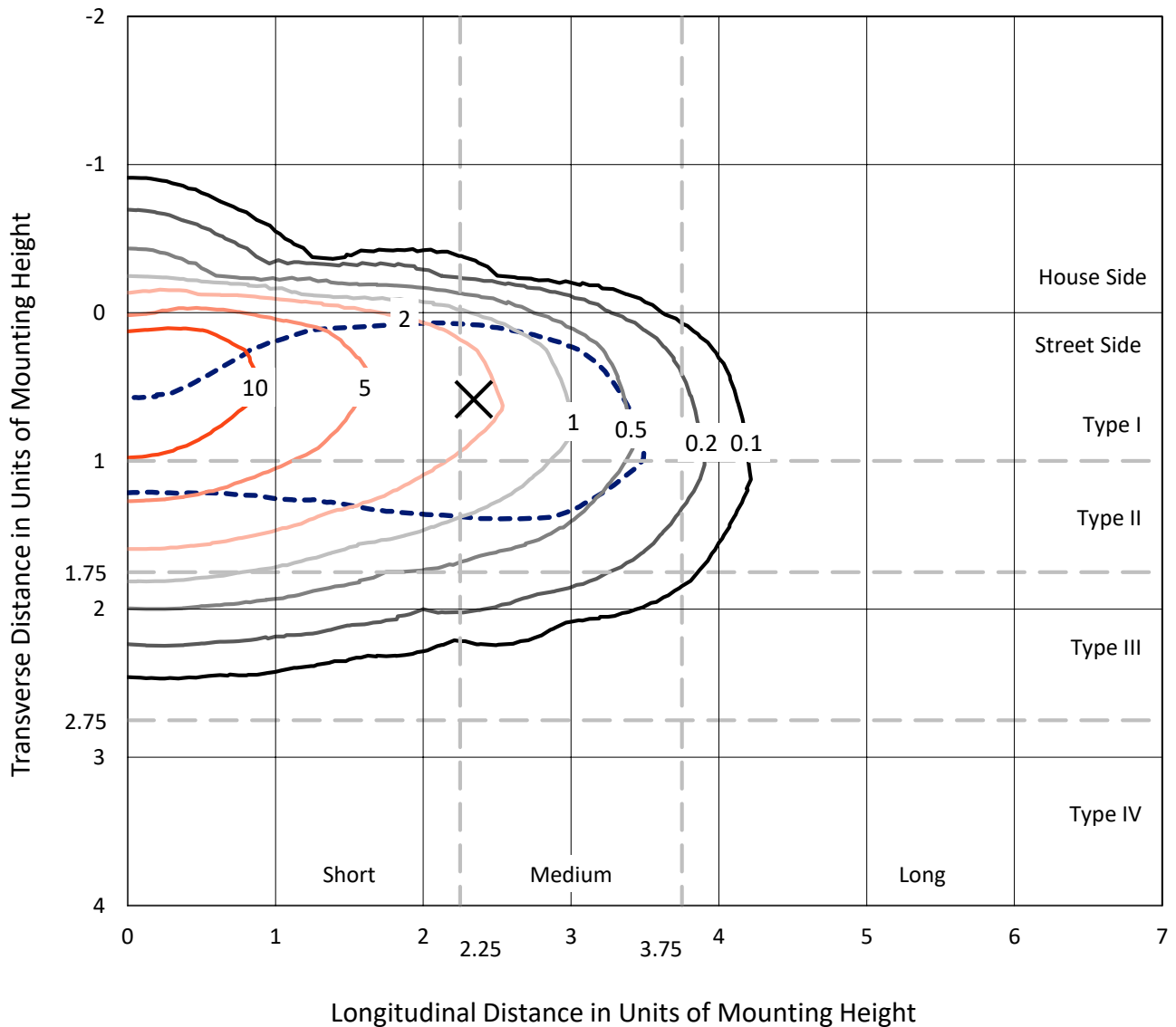
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

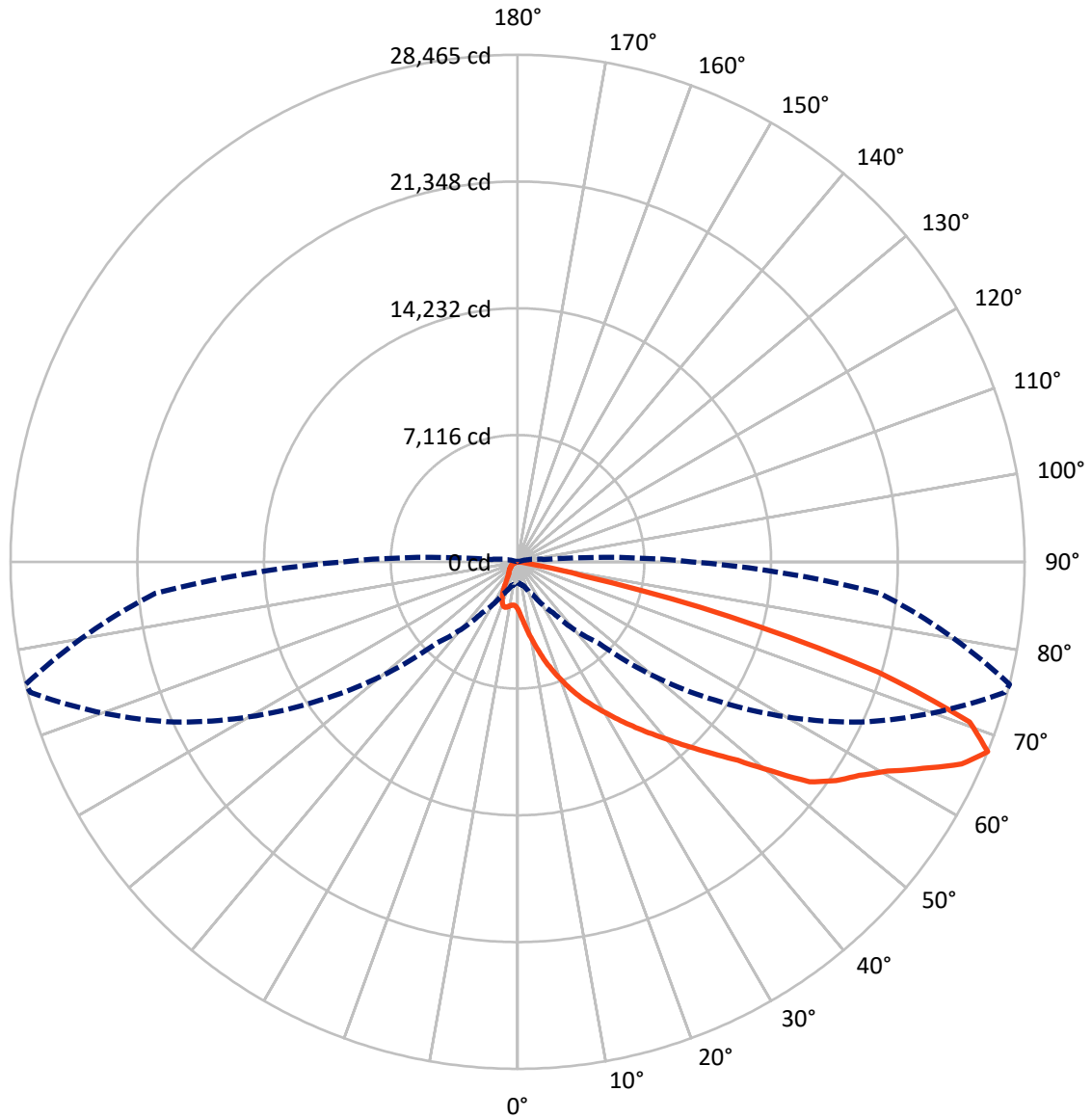
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 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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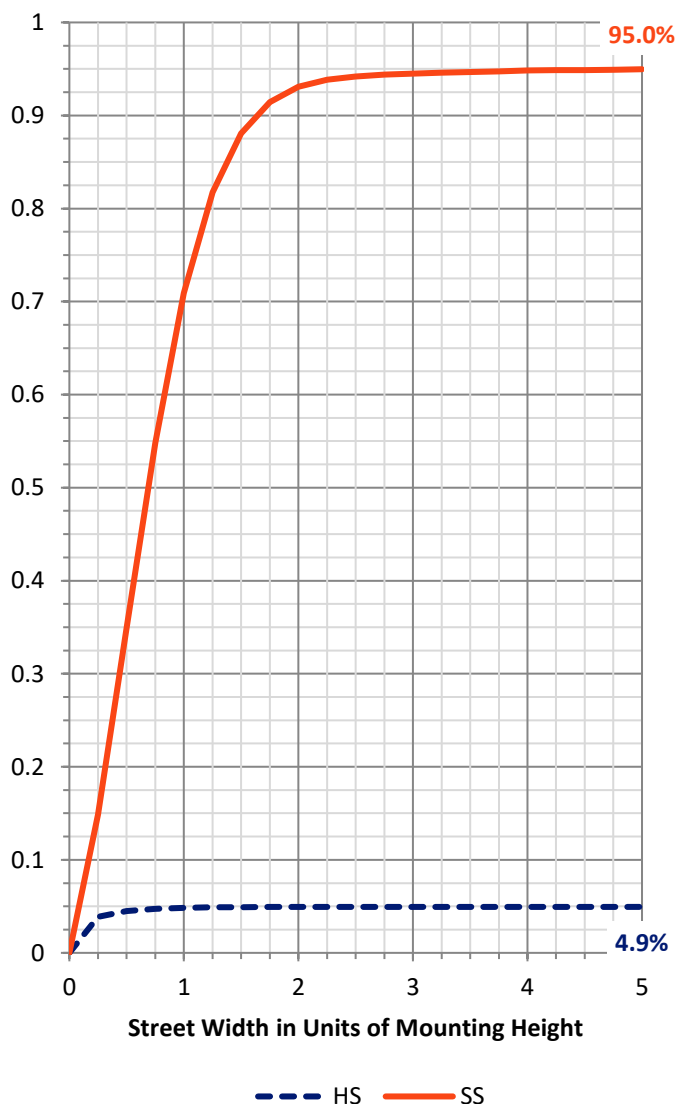
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1555.6	0.0	1555.6
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	29771.4	0.0	29771.4
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	31327.0	0.0	31327.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.4	1.1
10°-20°	1309.9	4.2
20°-30°	2665.3	8.5
30°-40°	4626.1	14.8
40°-50°	6536.1	20.9
50°-60°	7412.2	23.7
60°-70°	6147.8	19.6
70°-80°	2226.9	7.1
80°-90°	72.2	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°	31327.0	100.0
0°-180°	31327.0	100.0

**Coefficient of Utilization**

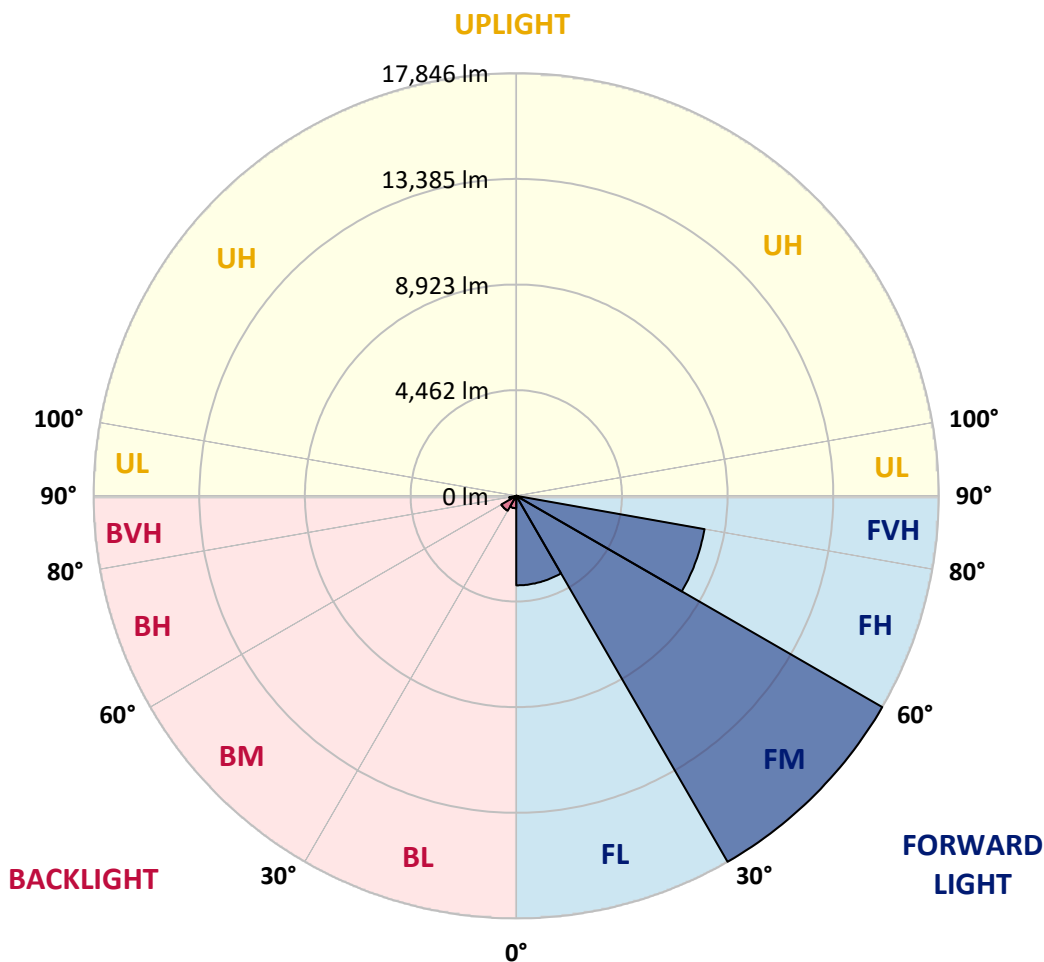


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3781.1	12.1			
FM (30°-60°)	17846.4	57.0			
FH (60°-80°)	8074.0	25.8			G4/12000
FVH (80°-90°)	69.9	0.2			G1/100
BL (0°-30°)	524.6	1.7	B2/1000		
BM (30°-60°)	728.1	2.3	B1/1000		
BH (60°-80°)	300.6	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°	2657.4	2657.4	2657.4	2657.4	2657.4	2657.4	2657.4	2657.4	2657.4	2657.4	2657.4
2.5°	3966.9	3877.8	3898.3	3840.7	3736.3	3522.2	3339.6	3166.7	2964.9	2958.0	2791.9
5°	5349.2	5273.7	5264.1	5147.5	4958.0	4594.2	4240.1	3836.6	3386.3	3353.4	3000.6
7.5°	6603.8	6543.4	6521.4	6382.8	6030.0	5675.9	5214.7	4621.7	3917.5	3857.2	3282.0
10°	7567.4	7538.5	7544.0	7445.2	7143.2	6813.8	6208.5	5452.2	4520.1	4426.8	3619.6
12.5°	8297.7	8304.5	8353.9	8293.5	8124.7	7880.3	7233.8	6337.5	5187.2	5059.6	4005.4
15°	8834.3	8868.6	8959.3	9034.7	9022.4	8811.0	8218.0	7236.5	5895.5	5754.1	4435.0
17.5°	9181.6	9220.1	9351.8	9519.3	9673.0	9623.6	9167.9	8104.1	6612.0	6448.6	4894.8
20°	9486.3	9531.6	9673.0	9894.1	10180.9	10242.6	9943.4	8945.6	7327.2	7128.1	5369.8
22.5°	10146.6	10145.2	10231.7	10360.7	10633.9	10793.1	10603.7	9726.6	8034.0	7826.8	5854.3
25°	11340.8	11295.5	11265.3	11163.7	11224.1	11323.0	11217.2	10456.8	8745.1	8535.1	6345.7
27.5°	12760.1	12787.5	12543.2	12270.1	12058.7	11957.1	11784.2	11133.5	9428.7	9198.1	6826.2
30°	14257.6	14265.9	13977.6	13629.0	13163.7	12777.9	12478.7	11780.1	10131.5	9880.3	7292.9
32.5°	15608.4	15554.8	15269.3	14794.4	14206.8	13773.1	13151.3	12502.0	10875.4	10632.5	7811.7
35°	16679.0	16615.8	16268.5	15836.2	15226.7	14790.3	14042.1	13222.7	11657.9	11420.4	8331.9
37.5°	17461.4	17387.2	17030.4	16585.6	16060.0	15806.0	15075.7	14006.5	12511.6	12256.4	8879.6
40°	17733.2	17668.7	17444.9	17119.6	16696.9	16639.2	16172.5	14908.3	13440.9	13169.1	9500.1
42.5°	17571.2	17508.1	17428.4	17318.7	17143.0	17197.9	17207.5	15936.4	14473.2	14205.4	10185.0
45°	16928.8	16872.6	16954.9	17115.5	17333.8	17605.5	18151.9	17041.4	15626.2	15340.6	10977.1
47.5°	15983.0	15941.9	16169.7	16570.6	17208.9	17958.3	19015.2	18202.6	16920.5	16655.7	11965.4
50°	14637.9	14631.0	15086.7	15818.3	16799.8	18128.5	19907.5	19523.1	18718.7	18440.1	13339.4
52.5°	12543.2	12557.0	13453.3	14624.2	16081.9	18013.2	20481.2	21219.7	20810.7	20521.1	14529.4
55°	10548.8	10631.1	11266.7	12955.0	14981.1	17584.9	20678.9	22011.7	21965.1	21690.5	15191.0
57.5°	8595.5	8745.1	9357.3	10934.5	13373.7	16598.0	20570.4	22354.9	22824.3	22614.3	16064.1
60°	6478.9	6547.5	7253.0	8727.3	11310.6	14797.1	19783.9	22541.6	23999.3	23853.8	17331.0
62.5°	4122.0	4293.6	4919.6	6341.6	8806.9	12296.1	18458.0	22538.8	25469.4	25549.0	18965.8
65°	2171.5	2371.9	2704.1	3929.9	6052.0	9502.8	16463.5	22327.4	27273.0	27384.2	20243.7
67.5°	1170.9	1228.5	1404.2	2039.7	3509.9	6437.7	13532.9	21284.2	28317.6	28464.6	20422.2
70°	856.6	888.1	954.0	1128.3	1766.6	3739.0	9874.8	18919.2	26971.1	26916.1	18145.0
72.5°	657.5	707.0	756.3	826.4	1015.8	1995.8	6148.0	14815.0	21520.3	21158.0	13563.1
75°	518.9	527.1	597.1	660.3	761.8	1136.6	2730.2	8628.5	13134.8	12277.0	7033.5
77.5°	414.5	420.0	461.2	516.1	612.2	746.7	845.6	3394.6	4193.5	3741.8	1526.3
80°	245.7	259.4	343.2	398.1	507.9	470.8	308.8	737.1	654.8	593.0	256.6
82.5°	137.3	148.2	193.6	314.3	354.2	225.2	153.7	199.1	153.7	149.6	72.8
85°	0.0	6.9	124.9	194.9	144.1	49.4	64.6	65.9	45.3	42.6	28.8
87.5°	0.0	0.0	38.5	37.1	5.5	8.2	15.1	22.0	17.9	17.9	15.1
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°	2657.4	2657.4	2657.4	2657.4	2657.4	2657.4	2657.4	2657.4	2657.4	2657.4	2657.4
2.5°	2709.6	2635.4	2495.4	2358.2	2242.9	2148.1	2063.1	2028.7	2001.3	1997.2	1975.3
5°	2830.4	2680.8	2413.1	2193.5	2046.6	1942.3	1853.0	1798.2	1755.6	1739.1	1724.0
7.5°	3013.0	2786.4	2402.1	2149.5	1973.9	1798.2	1633.5	1455.0	1343.9	1301.3	1276.6
10°	3235.4	2926.5	2443.3	2137.2	1829.7	1459.1	1186.0	959.5	867.6	837.3	829.1
12.5°	3494.8	3100.8	2514.7	2060.3	1522.2	1036.3	818.1	741.2	720.6	711.1	711.1
15°	3792.6	3291.6	2565.5	1837.9	1125.6	783.8	708.3	672.6	650.6	638.3	639.7
17.5°	4097.3	3478.3	2540.8	1515.4	830.5	697.3	641.0	602.6	572.4	560.0	557.3
20°	4404.8	3651.2	2403.5	1128.3	702.8	632.8	569.6	527.1	496.9	484.5	481.8
22.5°	4723.2	3798.1	2161.9	827.7	631.4	561.4	499.7	457.1	428.2	417.2	411.8
25°	5033.5	3917.5	1824.2	669.9	564.1	494.2	435.1	395.3	369.3	358.3	356.9
27.5°	5323.1	3993.0	1433.0	591.6	505.2	433.7	380.3	344.6	322.6	314.3	313.0
30°	5583.9	3999.9	1059.6	534.0	453.0	381.6	332.2	300.6	281.4	273.1	270.4
32.5°	5847.4	3942.2	771.4	481.8	404.9	336.3	288.2	263.5	249.8	242.9	242.9
35°	6096.0	3809.1	601.2	436.5	358.3	292.4	253.9	236.1	227.9	221.0	221.0
37.5°	6338.9	3618.3	510.6	396.7	314.3	255.3	223.8	212.8	205.9	199.1	199.1
40°	6585.9	3378.1	463.9	359.7	278.6	226.5	199.1	189.4	182.6	177.1	175.7
42.5°	6889.3	3100.8	433.7	325.3	247.0	200.4	175.7	164.7	159.2	153.7	151.0
45°	7240.7	2862.0	409.0	291.0	221.0	178.5	152.4	141.4	133.1	126.3	124.9
47.5°	7747.2	2689.0	376.1	253.9	196.3	155.1	131.8	119.4	107.0	100.2	98.8
50°	8393.7	2546.3	333.6	221.0	171.6	131.8	109.8	94.7	83.7	76.9	76.9
52.5°	8714.9	2359.6	295.1	192.2	144.1	111.2	89.2	71.4	65.9	59.1	59.1
55°	8843.9	2216.8	256.6	163.3	119.4	91.9	70.0	54.9	50.8	46.7	45.3
57.5°	9206.3	2175.6	223.8	138.6	98.8	72.8	53.6	41.2	38.5	33.0	33.0
60°	9789.7	2196.2	193.6	118.0	79.6	56.3	39.8	31.6	28.8	23.3	23.3
62.5°	10419.7	2170.1	163.3	101.5	61.8	41.2	27.5	23.3	23.3	13.7	12.4
65°	10540.6	1932.7	140.0	83.7	48.1	30.2	17.9	15.1	20.6	2.7	0.0
67.5°	9782.8	1499.0	120.8	64.6	35.7	23.3	13.7	6.9	17.9	0.0	0.0
70°	7822.7	952.6	97.4	46.7	27.5	19.2	11.0	2.7	13.7	0.0	0.0
72.5°	5531.7	553.2	76.9	33.0	23.3	15.1	8.2	0.0	8.2	0.0	0.0
75°	2797.4	295.1	48.1	24.7	17.9	11.0	5.5	0.0	1.4	0.0	0.0
77.5°	605.3	137.3	30.2	17.9	12.4	6.9	2.7	0.0	0.0	0.0	0.0
80°	131.8	60.4	19.2	11.0	6.9	4.1	0.0	0.0	0.0	0.0	0.0
82.5°	48.1	31.6	9.6	5.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.1	16.5	5.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.7	5.5	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)