

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: P321394

Luminaire Tested: **GLEON-SA0A-827-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321394  
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-SA0A-827-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 2700K, 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: 27370 lumens  
Efficiency: N/A  
Efficacy: 84.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

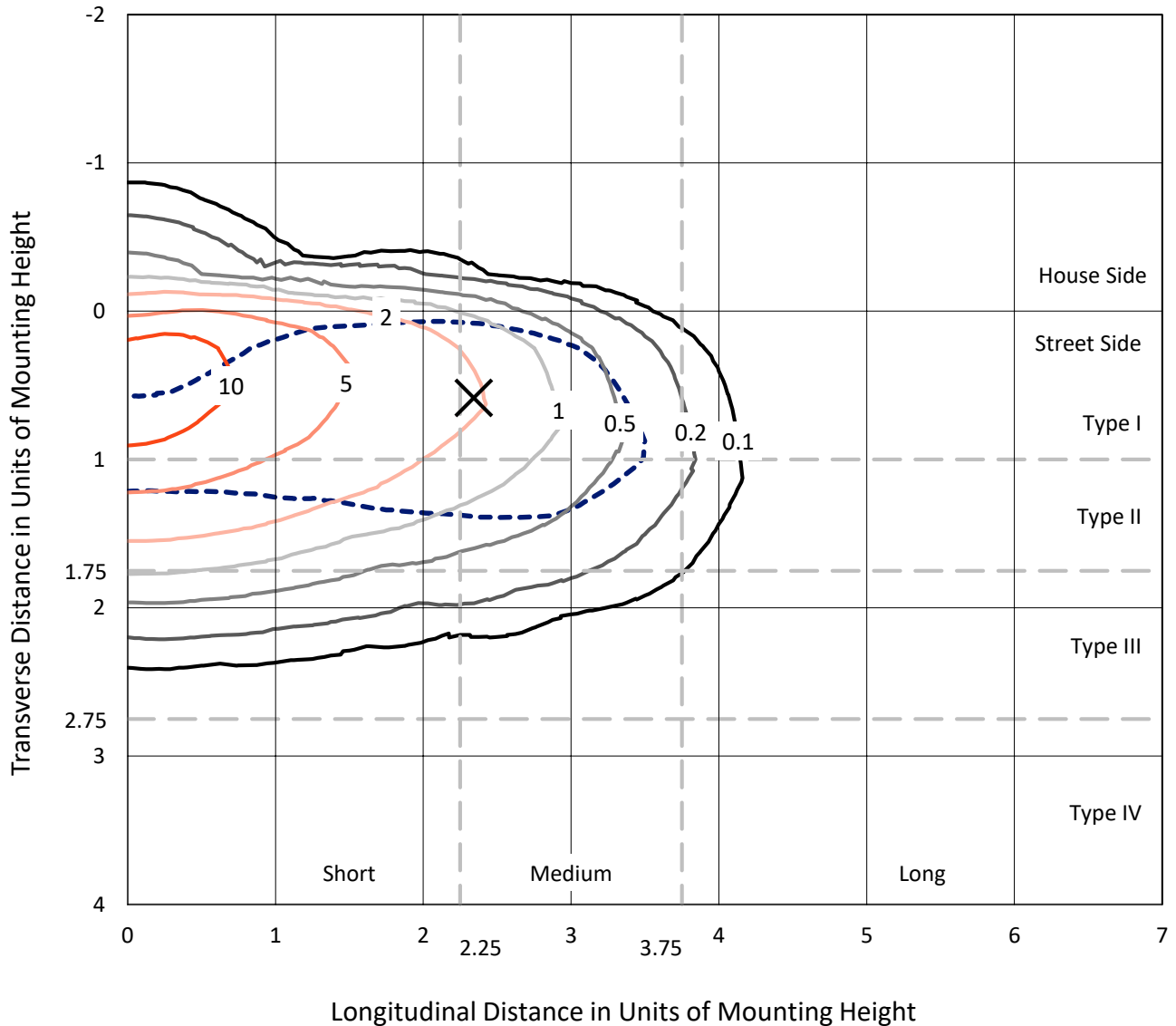
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

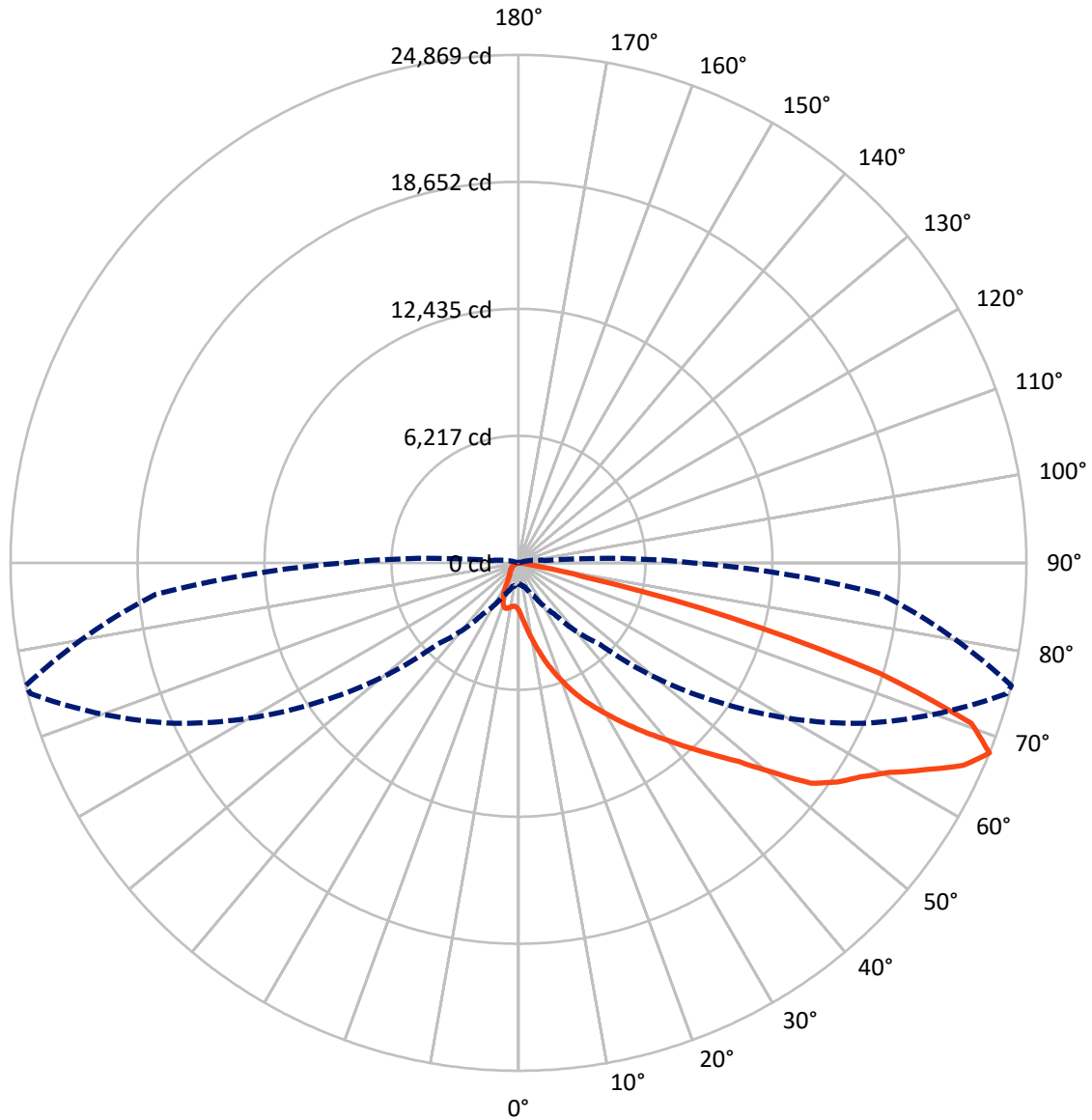
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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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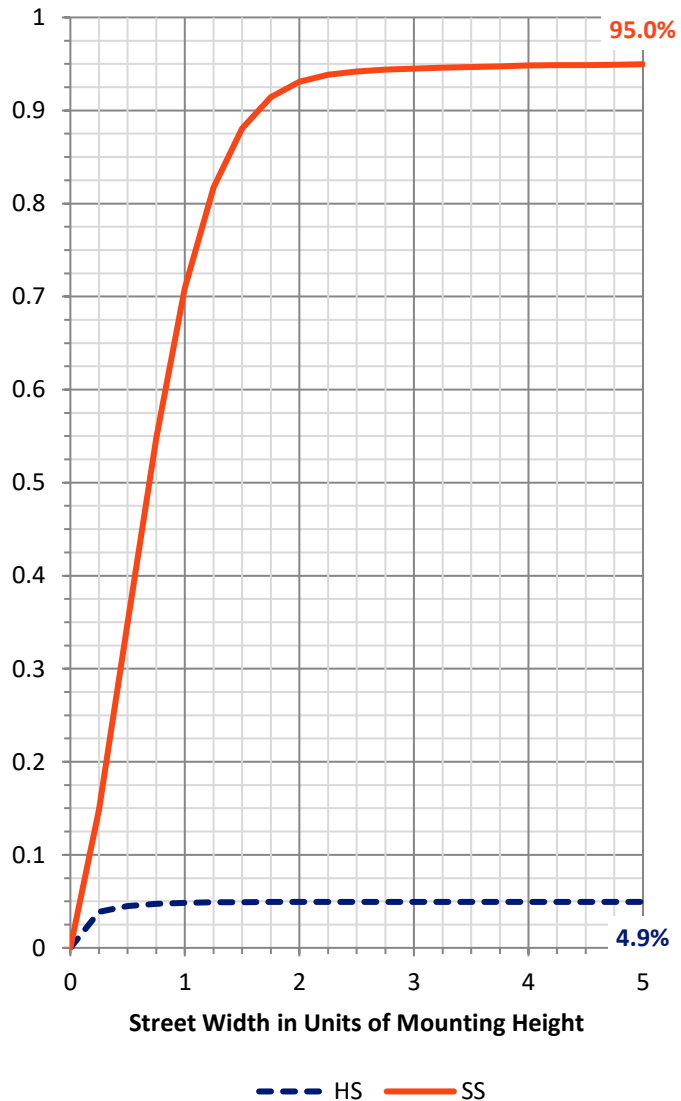
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1359.1	0.0	1359.1
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	26010.9	0.0	26010.9
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	27370.0	0.0	27370.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.7	1.1
10°-20°	1144.5	4.2
20°-30°	2328.6	8.5
30°-40°	4041.8	14.8
40°-50°	5710.5	20.9
50°-60°	6476.0	23.7
60°-70°	5371.2	19.6
70°-80°	1945.6	7.1
80°-90°	63.1	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°	27370.0	100.0
0°-180°	27370.0	100.0

**Coefficient of Utilization**

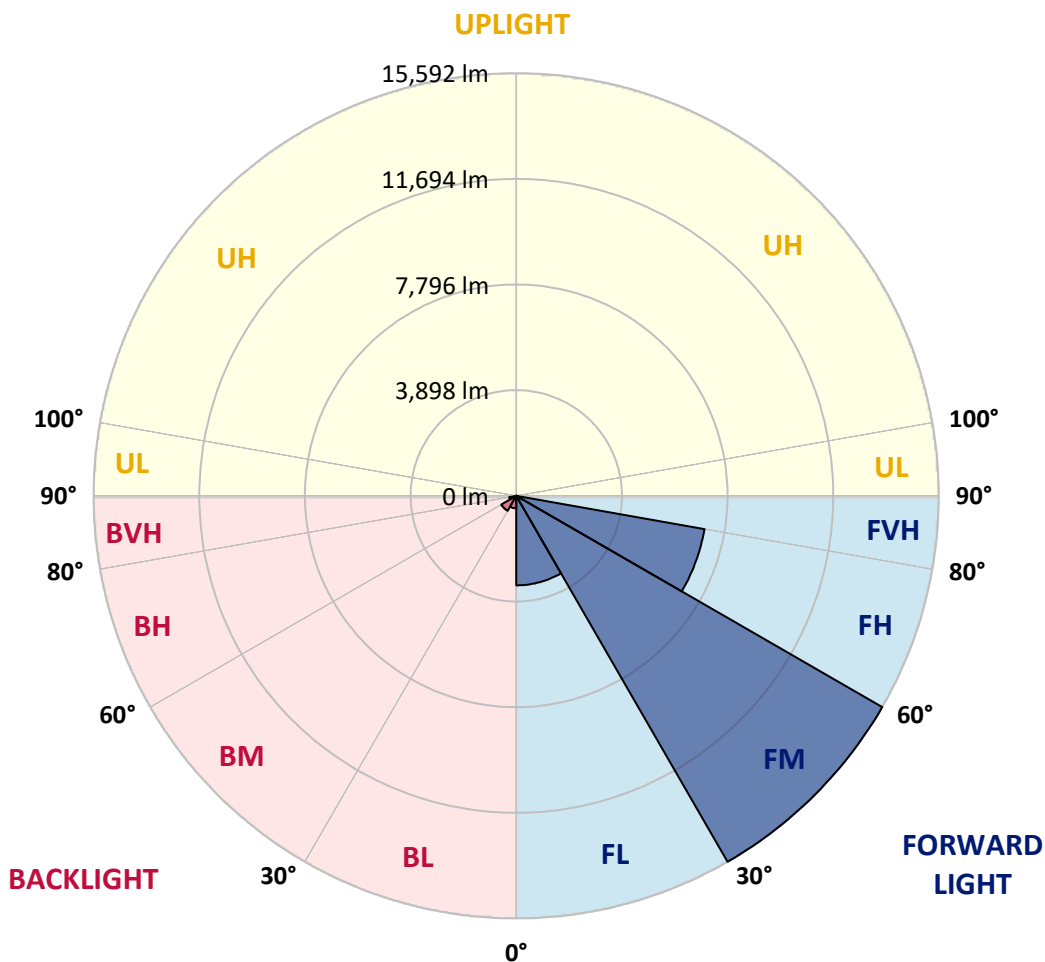


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3303.5	12.1			
FM (30°-60°)	15592.1	57.0			
FH (60°-80°)	7054.2	25.8			G3/7500
FVH (80°-90°)	61.1	0.2			G1/100
BL (0°-30°)	458.4	1.7	B1/500		
BM (30°-60°)	636.1	2.3	B1/1000		
BH (60°-80°)	262.7	1.0	B1/500		G1/500
BVH (80°-90°)	2.0	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-G3**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2321.8	2321.8	2321.8	2321.8	2321.8	2321.8	2321.8	2321.8	2321.8	2321.8	2321.8
2.5°	3465.9	3387.9	3405.9	3355.5	3264.4	3077.3	2917.8	2766.7	2590.4	2584.4	2439.3
5°	4673.5	4607.6	4599.2	4497.2	4331.7	4013.9	3704.5	3351.9	2958.6	2929.8	2621.6
7.5°	5769.6	5716.9	5697.7	5576.6	5268.4	4958.9	4556.0	4037.9	3422.7	3369.9	2867.4
10°	6611.5	6586.3	6591.1	6504.8	6241.0	5953.1	5424.3	4763.5	3949.2	3867.6	3162.5
12.5°	7249.5	7255.5	7298.7	7245.9	7098.4	6885.0	6320.1	5537.0	4532.0	4420.5	3499.4
15°	7718.4	7748.4	7827.6	7893.5	7882.7	7698.1	7180.0	6322.5	5150.8	5027.3	3874.8
17.5°	8021.9	8055.4	8170.6	8316.9	8451.2	8408.0	8009.9	7080.4	5776.8	5634.1	4276.6
20°	8288.1	8327.7	8451.2	8644.3	8894.9	8948.9	8687.4	7815.6	6401.7	6227.8	4691.5
22.5°	8864.9	8863.7	8939.3	9052.0	9290.7	9429.8	9264.3	8498.0	7019.3	6838.2	5114.8
25°	9908.3	9868.7	9842.3	9753.6	9806.4	9892.7	9800.4	9136.0	7640.5	7457.0	5544.2
27.5°	11148.3	11172.3	10958.8	10720.2	10535.5	10446.8	10295.7	9727.2	8237.7	8036.2	5963.9
30°	12456.7	12463.9	12212.1	11907.5	11500.9	11163.9	10902.5	10292.1	8851.7	8632.3	6371.7
32.5°	13636.8	13590.0	13340.6	12925.6	12412.3	12033.4	11490.1	10922.9	9501.7	9289.5	6825.0
35°	14572.2	14517.1	14213.6	13835.9	13303.4	12922.0	12268.4	11552.5	10185.3	9977.8	7279.5
37.5°	15255.8	15191.0	14879.2	14490.7	14031.4	13809.5	13171.5	12237.3	10931.3	10708.2	7758.0
40°	15493.2	15436.9	15241.4	14957.2	14587.8	14537.4	14129.7	13025.2	11743.2	11505.7	8300.1
42.5°	15351.7	15296.6	15227.0	15131.1	14977.6	15025.5	15033.9	13923.4	12645.0	12411.1	8898.5
45°	14790.5	14741.3	14813.3	14953.6	15144.3	15381.7	15859.0	14888.8	13652.4	13402.9	9590.5
47.5°	13964.2	13928.2	14127.3	14477.5	15035.1	15689.9	16613.4	15903.4	14783.3	14551.8	10454.0
50°	12788.9	12782.9	13181.1	13820.3	14677.8	15838.6	17392.9	17057.1	16354.3	16110.9	11654.4
52.5°	10958.8	10970.8	11754.0	12776.9	14050.5	15737.9	17894.2	18539.4	18182.0	17928.9	12694.2
55°	9216.3	9288.3	9843.5	11318.6	13088.7	15363.7	18066.9	19231.3	19190.6	18950.7	13272.2
57.5°	7509.8	7640.5	8175.4	9553.3	11684.4	14501.5	17972.1	19531.2	19941.3	19757.8	14034.9
60°	5660.5	5720.5	6336.9	7624.9	9881.9	12928.0	17284.9	19694.3	20967.9	20840.8	15141.9
62.5°	3601.4	3751.3	4298.2	5540.6	7694.5	10743.0	16126.5	19691.9	22252.3	22321.8	16570.2
65°	1897.2	2072.3	2362.5	3433.5	5287.5	8302.5	14383.9	19507.2	23828.1	23925.3	17686.7
67.5°	1023.0	1073.3	1226.8	1782.1	3066.5	5624.5	11823.5	18595.7	24740.7	24869.1	17842.6
70°	748.3	775.9	833.5	985.8	1543.4	3266.8	8627.5	16529.4	23564.3	23516.3	15853.0
72.5°	574.4	617.6	660.8	722.0	887.5	1743.7	5371.5	12943.6	18802.0	18485.4	11849.9
75°	453.3	460.5	521.7	576.8	665.6	993.0	2385.3	7538.6	11475.7	10726.2	6145.0
77.5°	362.2	367.0	403.0	450.9	534.9	652.4	738.7	2965.8	3663.7	3269.2	1333.6
80°	214.7	226.7	299.8	347.8	443.7	411.3	269.8	644.0	572.0	518.1	224.3
82.5°	119.9	129.5	169.1	274.6	309.4	196.7	134.3	173.9	134.3	130.7	63.6
85°	0.0	6.0	109.1	170.3	125.9	43.2	56.4	57.6	39.6	37.2	25.2
87.5°	0.0	0.0	33.6	32.4	4.8	7.2	13.2	19.2	15.6	15.6	13.2
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°	2321.8	2321.8	2321.8	2321.8	2321.8	2321.8	2321.8	2321.8	2321.8	2321.8	2321.8
2.5°	2367.3	2302.6	2180.3	2060.3	1959.6	1876.8	1802.5	1772.5	1748.5	1744.9	1725.7
5°	2472.9	2342.2	2108.3	1916.4	1788.1	1697.0	1619.0	1571.0	1533.9	1519.5	1506.3
7.5°	2632.4	2434.5	2098.7	1878.0	1724.5	1571.0	1427.1	1271.2	1174.1	1136.9	1115.3
10°	2826.7	2556.8	2134.7	1867.2	1598.6	1274.8	1036.2	838.3	757.9	731.5	724.4
12.5°	3053.3	2709.1	2197.0	1800.1	1330.0	905.4	714.8	647.6	629.6	621.2	621.2
15°	3313.6	2875.8	2241.4	1605.8	983.4	684.8	618.8	587.6	568.4	557.7	558.9
17.5°	3579.8	3038.9	2219.8	1324.0	725.6	609.2	560.1	526.5	500.1	489.3	486.9
20°	3848.4	3190.0	2099.9	985.8	614.0	552.9	497.7	460.5	434.1	423.3	420.9
22.5°	4126.7	3318.4	1888.8	723.2	551.7	490.5	436.5	399.4	374.2	364.6	359.8
25°	4397.7	3422.7	1593.8	585.2	492.9	431.7	380.2	345.4	322.6	313.0	311.8
27.5°	4650.7	3488.6	1252.0	516.9	441.3	379.0	332.2	301.0	281.8	274.6	273.4
30°	4878.6	3494.6	925.8	466.5	395.8	333.4	290.2	262.6	245.8	238.7	236.3
32.5°	5108.9	3444.3	674.0	420.9	353.8	293.8	251.8	230.3	218.3	212.3	212.3
35°	5325.9	3327.9	525.3	381.4	313.0	255.4	221.9	206.3	199.1	193.1	193.1
37.5°	5538.2	3161.3	446.1	346.6	274.6	223.1	195.5	185.9	179.9	173.9	173.9
40°	5754.1	2951.4	405.4	314.2	243.4	197.9	173.9	165.5	159.5	154.7	153.5
42.5°	6019.1	2709.1	379.0	284.2	215.9	175.1	153.5	143.9	139.1	134.3	131.9
45°	6326.1	2500.5	357.4	254.2	193.1	155.9	133.1	123.5	116.3	110.3	109.1
47.5°	6768.6	2349.4	328.6	221.9	171.5	135.5	115.1	104.3	93.5	87.5	86.3
50°	7333.5	2224.6	291.4	193.1	149.9	115.1	95.9	82.7	73.2	67.2	67.2
52.5°	7614.1	2061.5	257.8	167.9	125.9	97.1	78.0	62.4	57.6	51.6	51.6
55°	7726.8	1936.8	224.3	142.7	104.3	80.4	61.2	48.0	44.4	40.8	39.6
57.5°	8043.4	1900.8	195.5	121.1	86.3	63.6	46.8	36.0	33.6	28.8	28.8
60°	8553.1	1918.8	169.1	103.1	69.6	49.2	34.8	27.6	25.2	20.4	20.4
62.5°	9103.6	1896.0	142.7	88.7	54.0	36.0	24.0	20.4	20.4	12.0	10.8
65°	9209.1	1688.6	122.3	73.2	42.0	26.4	15.6	13.2	18.0	2.4	0.0
67.5°	8547.1	1309.6	105.5	56.4	31.2	20.4	12.0	6.0	15.6	0.0	0.0
70°	6834.6	832.3	85.1	40.8	24.0	16.8	9.6	2.4	12.0	0.0	0.0
72.5°	4833.0	483.3	67.2	28.8	20.4	13.2	7.2	0.0	7.2	0.0	0.0
75°	2444.1	257.8	42.0	21.6	15.6	9.6	4.8	0.0	1.2	0.0	0.0
77.5°	528.9	119.9	26.4	15.6	10.8	6.0	2.4	0.0	0.0	0.0	0.0
80°	115.1	52.8	16.8	9.6	6.0	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	42.0	27.6	8.4	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.8	14.4	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.0	4.8	1.2	1.2	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)