

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: P455404

Luminaire Tested: **GALN-SA6C-750-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455404  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-750-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32640 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

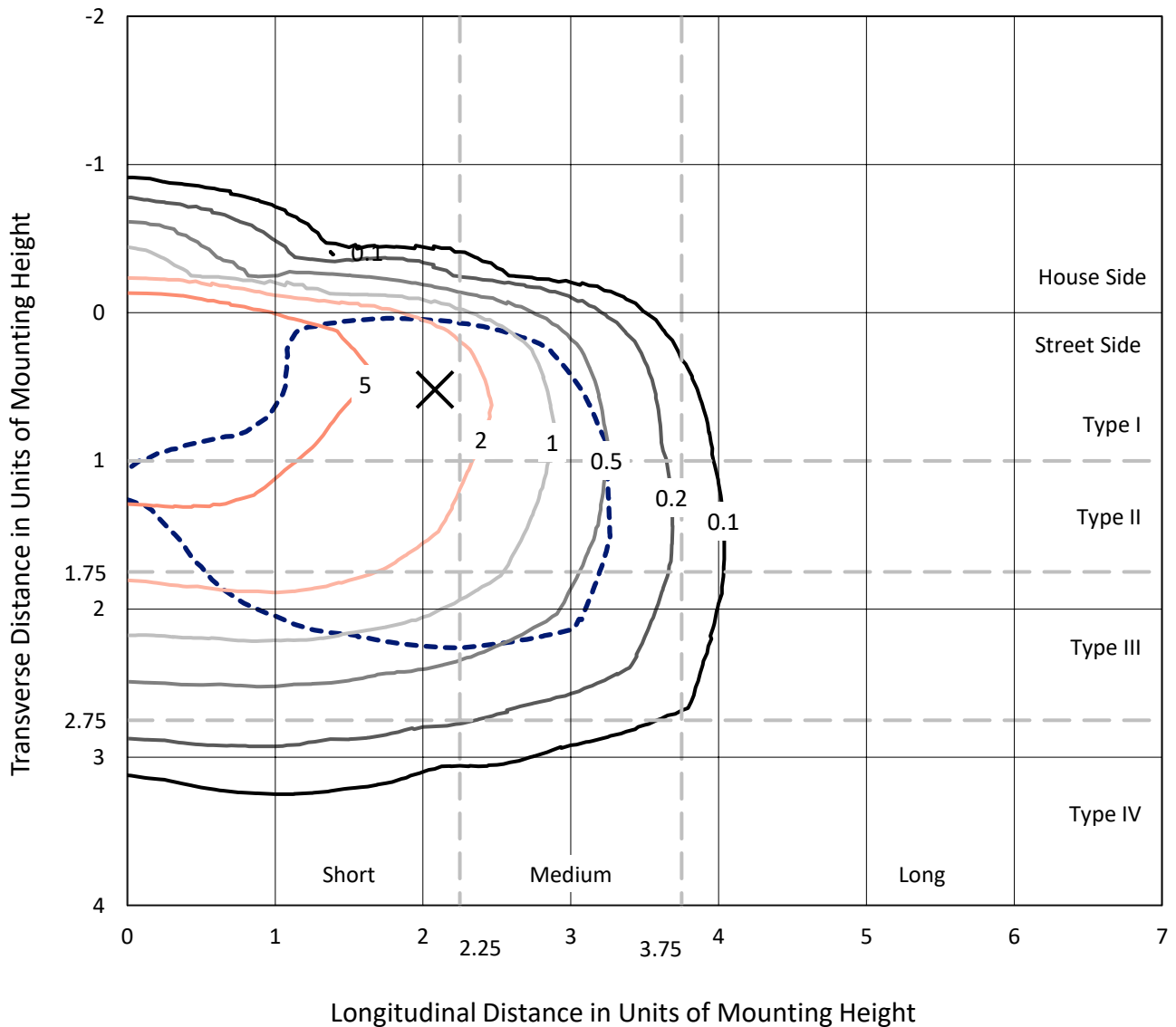
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

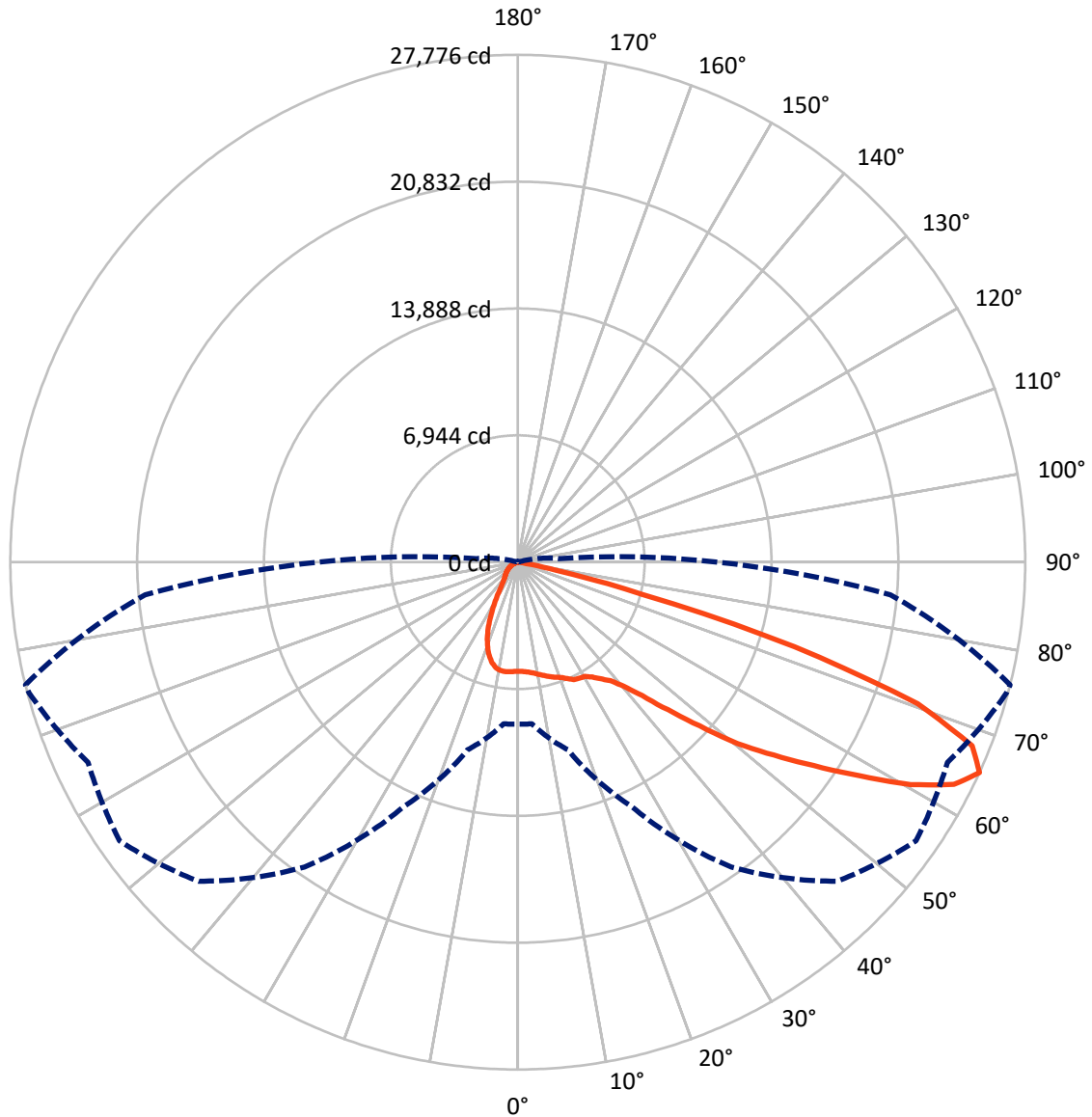
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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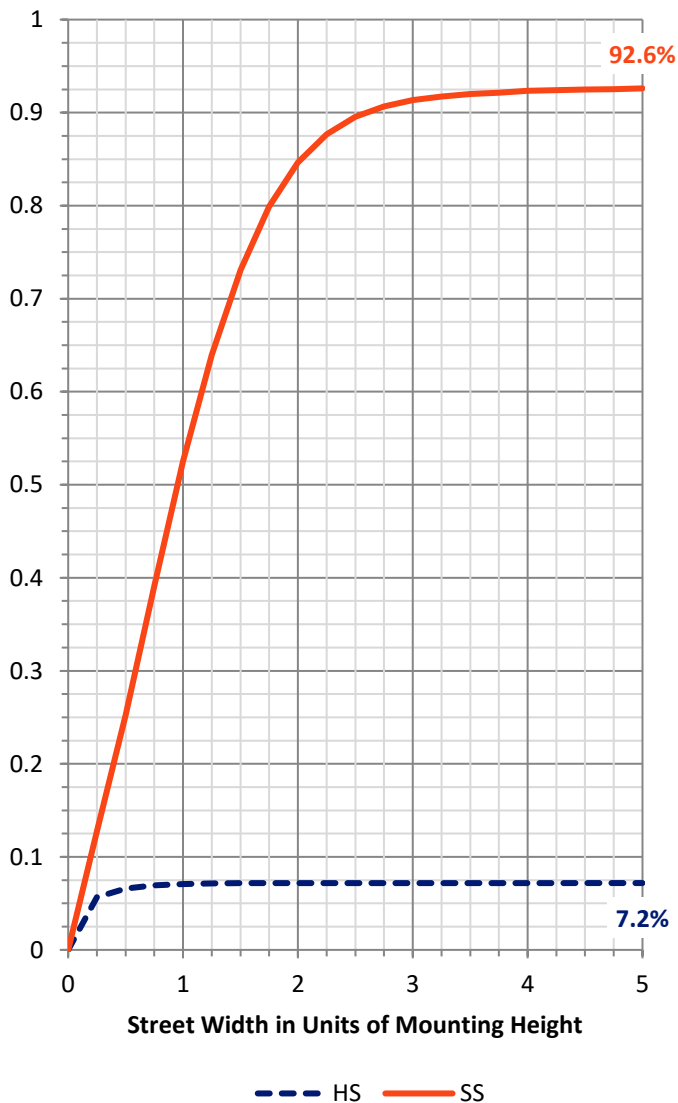
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2357.2	0.0	2357.2
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	30282.7	0.0	30282.7
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	32640.0	0.0	32640.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	491.9	1.5
10°-20°	1095.2	3.4
20°-30°	1764.8	5.4
30°-40°	3068.5	9.4
40°-50°	5070.5	15.5
50°-60°	7832.9	24.0
60°-70°	9565.0	29.3
70°-80°	3630.2	11.1
80°-90°	121.1	0.4
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°	32640.0	100.0
0°-180°	32640.0	100.0



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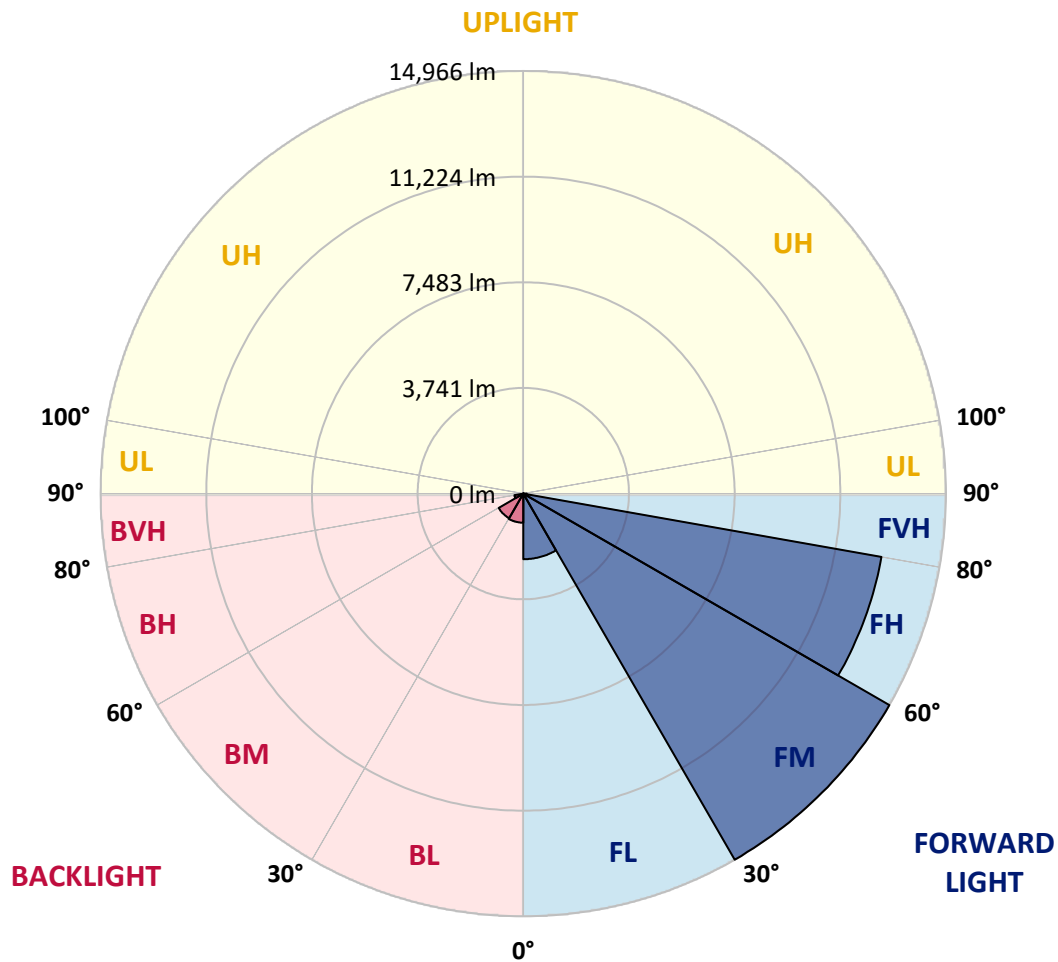
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2322.0	7.1			
FM (30°-60°)	14965.9	45.9			
FH (60°-80°)	12875.4	39.4			G5
FVH (80°-90°)	119.5	0.4			G2/225
BL (0°-30°)	1029.8	3.2	B3/2500		
BM (30°-60°)	1005.9	3.1	B2/2500		
BH (60°-80°)	319.8	1.0	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5970.9	5970.9	5970.9	5970.9	5970.9	5970.9	5970.9	5970.9	5970.9	5970.9	5970.9
2.5°	5705.9	5708.2	5722.0	5756.6	5809.6	5853.4	5890.2	5950.2	5991.6	5996.2	6010.1
5°	5311.8	5284.2	5311.8	5401.7	5482.3	5604.5	5754.3	5904.1	6037.7	6046.9	6111.5
7.5°	4869.4	4892.4	4936.2	5028.4	5180.5	5367.1	5583.7	5851.1	6104.6	6127.6	6254.3
10°	4420.0	4470.7	4542.1	4682.7	4894.7	5136.7	5431.7	5814.2	6210.6	6242.8	6461.8
12.5°	4005.2	4028.2	4115.8	4304.8	4567.5	4908.5	5316.4	5793.5	6328.1	6367.3	6683.0
15°	3687.2	3717.1	3793.2	3963.7	4256.4	4694.2	5221.9	5786.5	6443.3	6498.6	6904.2
17.5°	3627.2	3645.7	3677.9	3793.2	4049.0	4523.7	5136.7	5784.2	6553.9	6620.8	7109.3
20°	3873.8	3857.7	3825.4	3813.9	3954.5	4392.3	5074.5	5802.7	6659.9	6736.0	7325.9
22.5°	4491.4	4512.2	4323.2	4099.7	4053.6	4371.6	5065.2	5890.2	6828.2	6918.0	7567.9
25°	5802.7	5643.7	5348.7	4814.1	4410.8	4498.3	5168.9	6097.6	7024.0	7123.1	7786.8
27.5°	7252.2	7203.8	6745.2	5864.9	5113.6	4765.7	5353.3	6256.7	7088.6	7190.0	7911.3
30°	8676.4	8734.0	8208.5	7236.1	6134.5	5261.1	5526.1	6316.6	7146.2	7252.2	8070.3
32.5°	9996.8	10066.0	9605.1	8641.8	7337.5	6118.4	5823.4	6549.3	7388.2	7496.5	8335.3
35°	11036.1	11045.4	10697.4	9930.0	8651.0	7160.0	6466.4	6957.2	7715.4	7842.1	8616.4
37.5°	11990.2	11976.4	11568.5	10907.1	9745.6	8194.7	7275.2	7427.3	8088.7	8220.1	9022.0
40°	12697.7	12706.9	12575.5	11953.3	10766.5	9151.1	7915.9	7867.5	8715.5	8920.6	9612.0
42.5°	13170.1	13255.3	13319.9	13004.2	12050.1	10328.7	8899.9	8810.0	9803.2	9973.8	10446.2
45°	13552.6	13704.7	14027.3	14011.2	13283.0	11773.6	10250.3	10066.0	11344.9	11527.0	11508.6
47.5°	13831.5	13985.9	14520.5	14843.1	14442.2	13174.7	11948.7	11789.7	13186.2	13384.4	12681.5
50°	13974.3	14158.7	14840.8	15465.3	15347.8	14525.1	13884.5	13893.7	15410.0	15601.3	14041.2
52.5°	13640.2	13879.9	15011.4	16135.9	16364.1	15817.9	15698.1	16002.3	17389.6	17553.2	15269.5
55°	12573.2	12875.1	14778.6	16707.5	17541.7	17343.5	17758.3	18221.5	19553.5	19659.5	16530.0
57.5°	11898.0	12218.3	14091.9	17193.7	18956.6	19260.8	19917.6	20256.3	21786.5	22056.1	17977.2
60°	11328.8	11580.0	13527.3	17297.4	20394.6	21606.8	22245.1	22595.4	24542.7	24717.8	19569.6
62.5°	10381.7	10669.7	12573.2	16573.8	21118.2	23484.9	24807.7	24651.0	26674.3	26796.4	20546.7
65°	8858.4	8883.8	10637.5	14755.6	20371.6	24704.0	26607.5	25950.7	27692.9	27775.9	20470.7
67.5°	6611.5	6855.8	8183.2	11598.4	17207.5	23662.4	27190.5	25985.3	27049.9	26819.5	18846.0
70°	4258.7	4445.3	5546.9	8042.6	12407.3	19747.1	25257.1	24203.9	23740.7	23229.1	15426.2
72.5°	1965.7	2205.4	3295.4	4595.1	7358.2	14066.5	20502.9	19664.1	17087.7	15824.8	9805.5
75°	857.3	917.2	1627.0	2424.3	3449.8	7438.8	13518.1	12206.8	7717.7	7049.4	3924.5
77.5°	523.1	562.3	852.7	1299.7	1355.0	2834.5	7282.1	5325.6	2385.1	2104.0	1064.7
80°	354.9	398.7	619.9	679.8	463.2	790.4	2733.1	1421.9	481.6	460.9	228.1
82.5°	172.8	218.9	458.6	380.2	200.5	253.5	795.0	304.2	140.6	131.4	80.7
85°	25.3	43.8	258.1	248.9	89.9	59.9	140.6	76.0	48.4	46.1	36.9
87.5°	0.0	0.0	87.6	39.2	9.2	9.2	16.1	16.1	18.4	16.1	18.4
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°	5970.9	5970.9	5970.9	5970.9	5970.9	5970.9	5970.9	5970.9	5970.9	5970.9	5970.9
2.5°	6017.0	6028.5	5984.7	5922.5	5855.7	5788.8	5694.4	5609.1	5558.4	5588.4	5514.6
5°	6125.3	6116.1	6000.9	5811.9	5560.7	5258.8	4959.2	4703.4	4620.5	4496.0	4482.2
7.5°	6275.1	6249.7	6005.5	5572.2	5005.3	4438.4	3885.3	3518.9	3309.2	3131.8	3136.4
10°	6484.8	6411.1	5952.5	5150.5	4217.2	3362.2	2657.1	2173.1	1963.4	1896.6	1843.6
12.5°	6701.4	6558.5	5805.0	4581.3	3283.9	2297.6	1615.4	1320.5	1191.4	1149.9	1145.3
15°	6895.0	6669.2	5546.9	3896.9	2387.4	1468.0	1101.5	1004.8	988.6	990.9	988.6
17.5°	7086.3	6756.7	5189.7	3171.0	1622.4	1053.1	947.1	924.1	931.0	940.2	937.9
20°	7245.3	6775.2	4733.4	2419.7	1147.6	924.1	889.5	884.9	891.8	898.7	898.7
22.5°	7418.1	6789.0	4191.8	1675.4	937.9	859.6	841.1	841.1	850.4	859.6	861.9
25°	7547.2	6712.9	3544.3	1202.9	827.3	797.3	788.1	790.4	799.7	804.3	802.0
27.5°	7567.9	6498.6	2857.6	921.8	751.3	721.3	712.1	721.3	709.8	716.7	712.1
30°	7586.3	6226.7	2161.6	776.6	682.1	636.0	622.2	608.4	599.2	587.6	585.3
32.5°	7643.9	5906.4	1578.6	698.3	617.6	566.9	534.6	495.5	465.5	456.3	454.0
35°	7669.3	5521.5	1159.2	636.0	560.0	504.7	447.1	391.8	348.0	331.8	343.4
37.5°	7766.1	5148.2	898.7	589.9	509.3	440.2	366.4	297.3	255.8	246.6	251.2
40°	7964.3	4742.6	753.6	550.8	465.5	380.2	290.4	223.5	195.9	186.7	184.4
42.5°	8282.3	4339.3	670.6	513.9	421.7	320.3	228.1	175.1	152.1	145.2	145.2
45°	8669.4	3952.2	613.0	474.7	375.6	258.1	179.7	140.6	126.7	122.1	122.1
47.5°	9178.7	3613.4	564.6	435.5	324.9	205.1	145.2	122.1	112.9	115.2	117.5
50°	9694.9	3362.2	511.6	391.8	267.3	168.2	124.4	108.3	106.0	108.3	108.3
52.5°	10084.4	3214.7	440.2	331.8	209.7	140.6	110.6	101.4	99.1	94.5	94.5
55°	10609.8	3182.5	350.3	269.6	165.9	117.5	99.1	92.2	85.3	80.7	78.4
57.5°	11285.0	3219.4	269.6	209.7	129.1	96.8	87.6	76.0	66.8	57.6	57.6
60°	11704.4	3136.4	209.7	161.3	94.5	78.4	66.8	55.3	43.8	36.9	34.6
62.5°	11570.8	2786.1	165.9	119.8	66.8	57.6	43.8	36.9	25.3	18.4	16.1
65°	10881.7	2249.2	133.7	83.0	48.4	34.6	23.0	23.0	11.5	2.3	0.0
67.5°	9524.4	1666.1	106.0	55.3	27.7	16.1	11.5	6.9	0.0	0.0	0.0
70°	7752.3	1202.9	83.0	34.6	16.1	11.5	4.6	2.3	0.0	0.0	0.0
72.5°	4922.4	689.0	64.5	20.7	11.5	4.6	0.0	0.0	0.0	0.0	0.0
75°	1903.5	269.6	43.8	13.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	539.2	126.7	25.3	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	140.6	55.3	13.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	66.8	23.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.2	9.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.4	2.3	0.0	0.0	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)