

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: P650813

Luminaire Tested: **GALN-SA3C-840-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650813  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-840-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 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: 14131.3 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

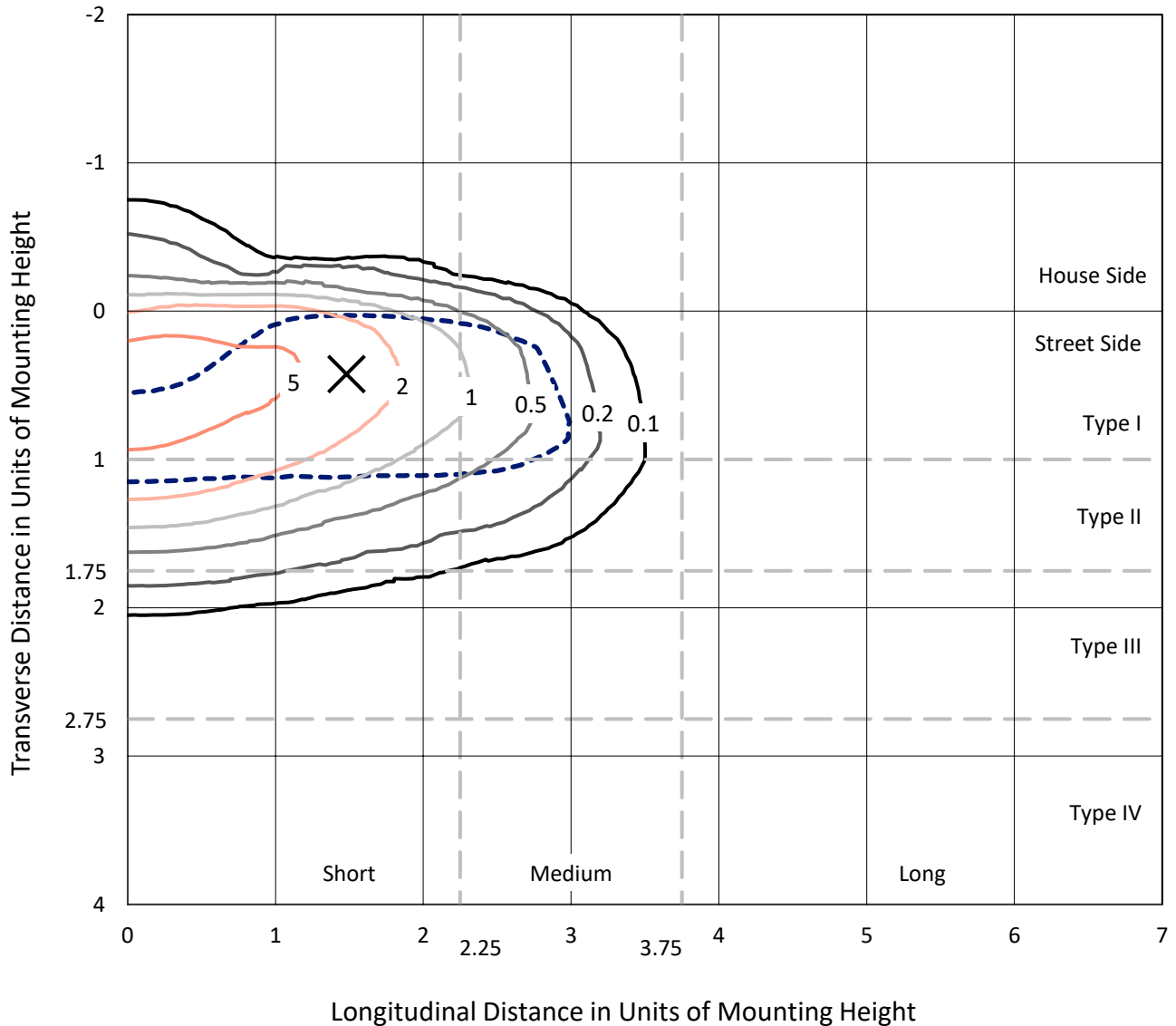
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

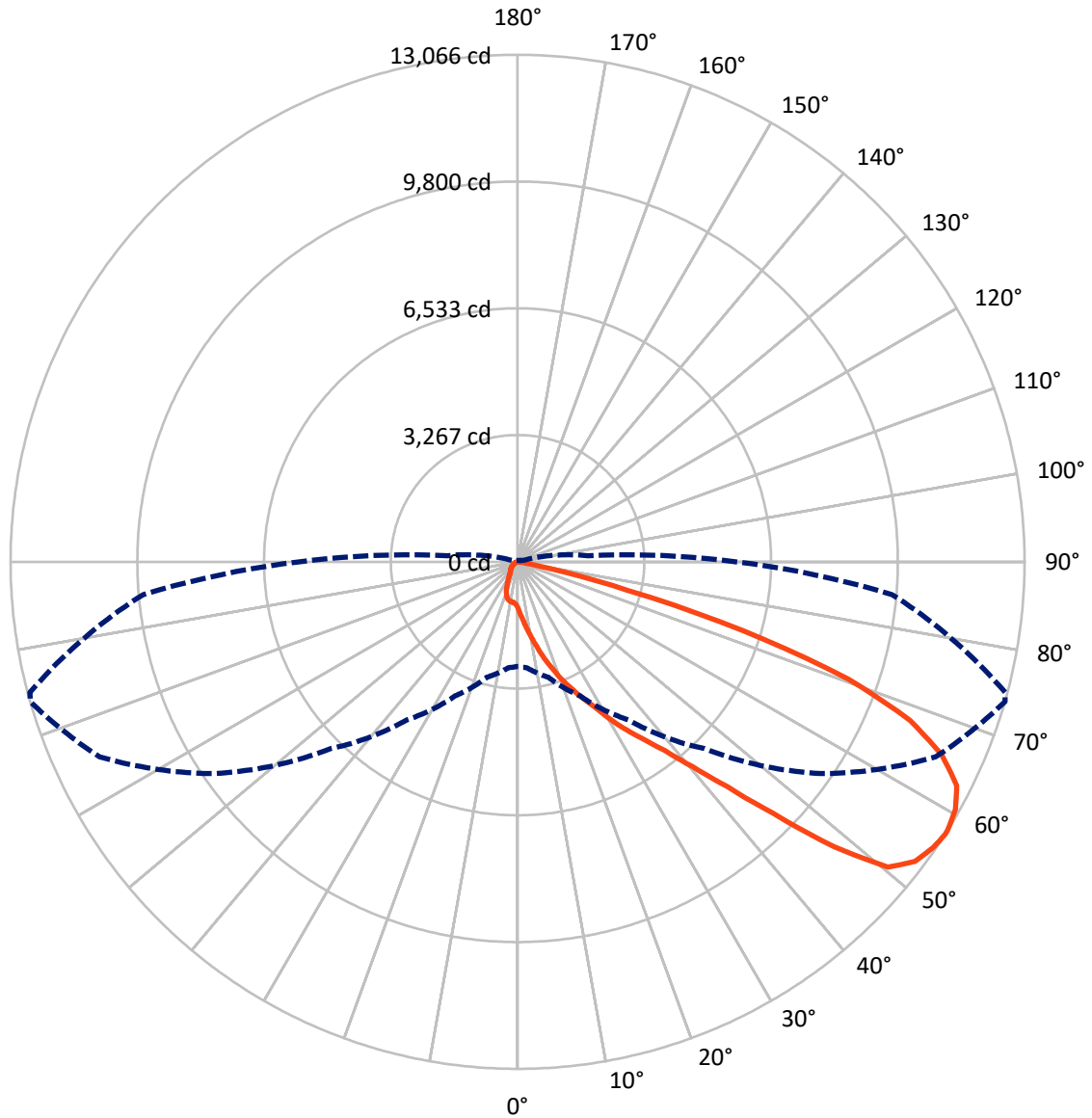
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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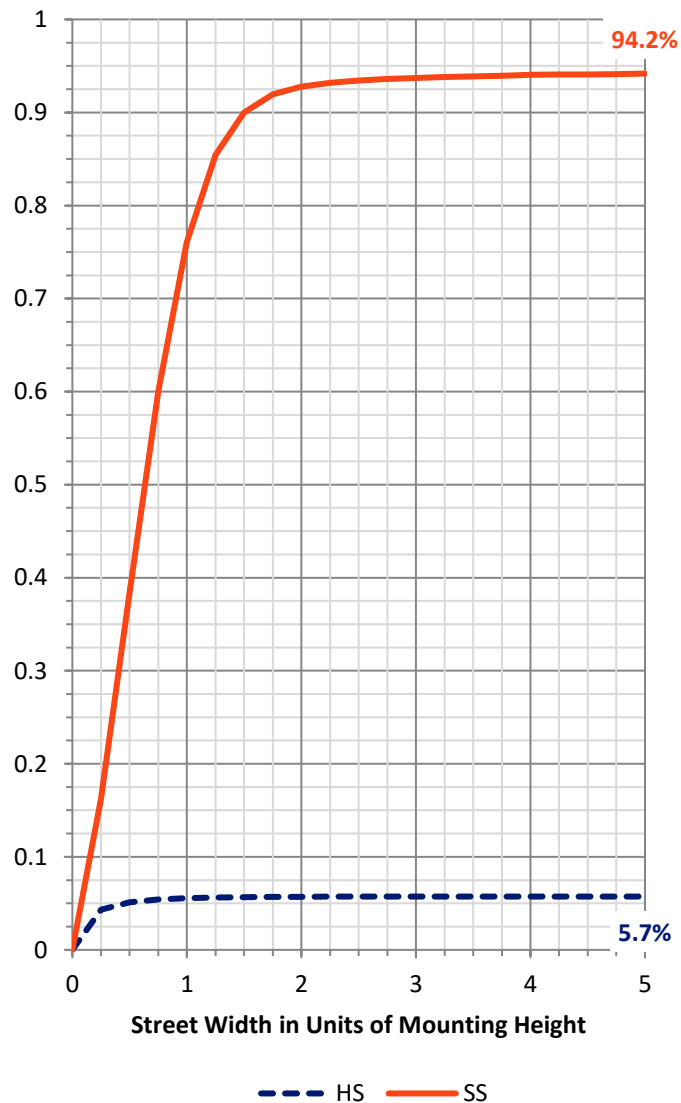
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	815.0	0.0	815.0
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	13316.3	0.0	13316.3
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	14131.3	0.0	14131.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.8	1.0
10°-20°	563.1	4.0
20°-30°	1204.8	8.5
30°-40°	2214.4	15.7
40°-50°	3394.7	24.0
50°-60°	3591.1	25.4
60°-70°	2345.1	16.6
70°-80°	640.8	4.5
80°-90°	34.5	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°	14131.3	100.0
0°-180°	14131.3	100.0

**Coefficient of Utilization**



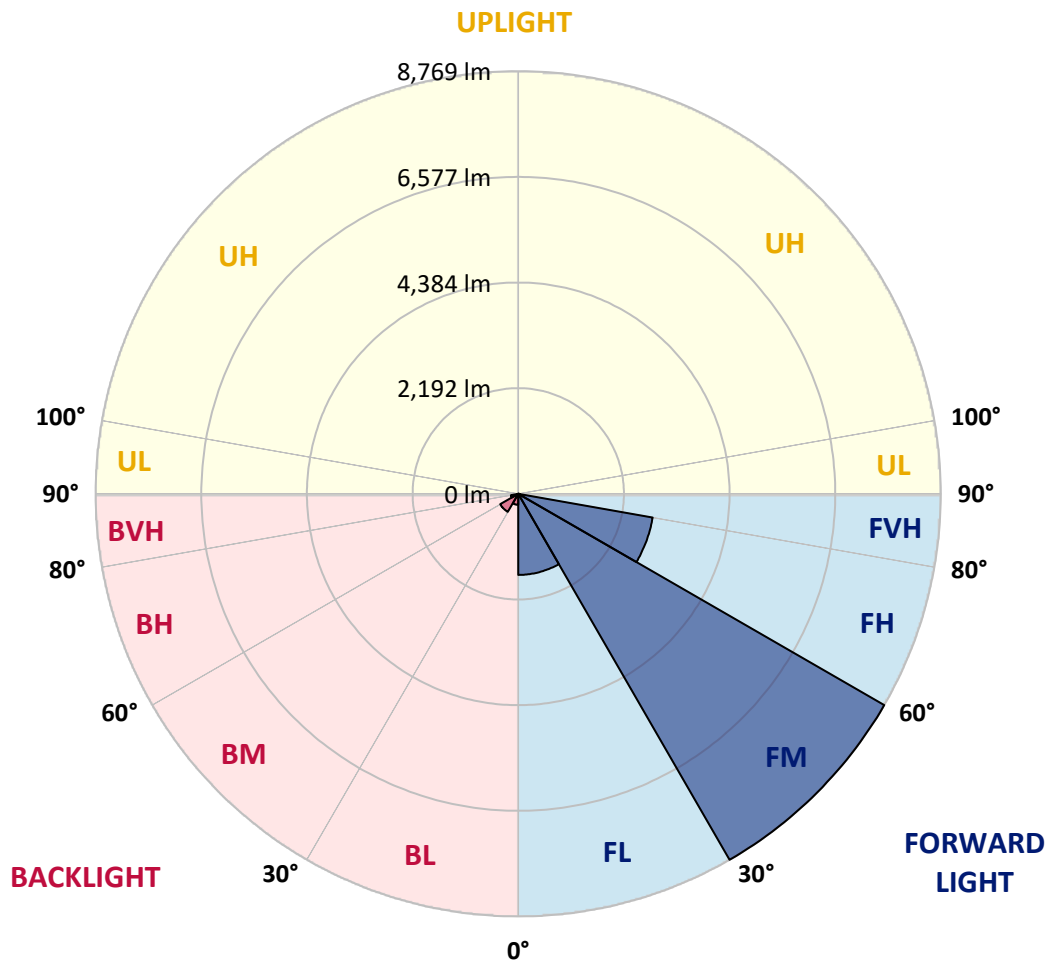
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1683.0	11.9			
FM (30°-60°)	8768.7	62.1			
FH (60°-80°)	2832.9	20.0			G2/5000
FVH (80°-90°)	31.6	0.2			G1/100
BL (0°-30°)	227.7	1.6	B1/500		
BM (30°-60°)	431.5	3.1	B1/1000		
BH (60°-80°)	153.0	1.1	B1/500		G1/500
BVH (80°-90°)	2.8	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°	55°	65°	74°	75°	85°
0°	1183.5	1183.5	1183.5	1183.5	1183.5	1183.5	1183.5	1183.5	1183.5	1183.5	1183.5
2.5°	1731.8	1716.2	1684.9	1674.3	1628.3	1557.2	1494.7	1410.8	1344.4	1337.6	1257.6
5°	2319.1	2284.0	2269.4	2199.1	2088.9	1985.5	1807.9	1673.3	1518.2	1506.4	1345.4
7.5°	2885.1	2836.3	2821.6	2755.3	2626.5	2463.5	2233.3	1988.4	1742.6	1720.1	1463.5
10°	3294.8	3301.7	3275.3	3231.4	3127.0	2961.2	2677.2	2342.6	1992.3	1964.0	1596.2
12.5°	3588.5	3587.5	3592.4	3591.4	3535.8	3409.9	3111.4	2726.0	2267.4	2211.8	1748.4
15°	3779.7	3782.6	3797.3	3848.0	3853.9	3775.8	3527.0	3092.9	2586.5	2517.2	1913.3
17.5°	3972.9	3993.4	4016.8	4064.6	4107.5	4076.3	3900.7	3475.3	2875.3	2823.6	2089.9
20°	4292.0	4320.2	4306.6	4335.9	4358.3	4361.3	4225.6	3828.5	3225.6	3138.7	2291.8
22.5°	4802.2	4801.3	4766.1	4713.5	4669.5	4667.6	4544.7	4191.5	3543.6	3459.7	2494.7
25°	5447.2	5450.0	5381.7	5231.5	5122.2	4988.6	4847.1	4509.5	3884.2	3780.7	2708.4
27.5°	6186.6	6168.1	6064.7	5857.9	5641.3	5413.0	5209.1	4879.3	4245.1	4159.2	2953.3
30°	6851.1	6844.3	6723.3	6470.6	6185.7	5956.5	5660.8	5342.7	4712.5	4607.1	3227.5
32.5°	7469.7	7479.4	7311.7	7050.1	6775.0	6510.6	6198.4	5785.7	5171.1	5021.8	3526.1
35°	7952.7	7962.4	7788.8	7571.2	7288.2	7068.7	6771.1	6257.9	5623.7	5497.9	3869.4
37.5°	8210.2	8222.9	8122.4	7958.5	7781.9	7671.6	7394.6	6865.8	6174.0	6097.9	4275.4
40°	8259.0	8273.6	8229.7	8185.8	8176.0	8255.1	8174.1	7581.9	6937.0	6817.9	4880.2
42.5°	8112.6	8132.1	8151.6	8249.2	8448.3	8738.1	9020.0	8553.6	7919.4	7759.5	5619.8
45°	7728.2	7726.3	7803.4	8056.0	8501.9	9120.5	9904.0	9770.3	9258.1	9067.8	6664.8
47.5°	7070.6	7060.9	7227.7	7587.8	8282.4	9190.8	10624.9	11247.4	10966.5	10790.9	7787.7
50°	6068.7	6116.4	6378.9	6881.3	7737.0	8978.1	10847.4	12216.3	12368.5	12182.1	8695.1
52.5°	4894.9	4892.9	5304.7	5986.7	6929.2	8509.7	10692.3	12391.9	12824.2	12681.7	9142.0
55°	3622.6	3648.0	4076.3	4764.2	5880.4	7655.0	10185.9	12211.4	12997.8	12897.3	9436.6
57°	2694.8	2739.6	3083.1	3810.9	4967.1	6809.2	9511.7	11888.5	13066.1	13011.4	9681.5
57.5°	2515.3	2517.2	2851.8	3513.4	4699.8	6484.3	9318.5	11753.8	13064.1	13033.9	9721.5
60°	1548.4	1597.1	1828.4	2374.7	3440.2	5060.8	8023.9	10980.1	12962.7	13006.6	9892.3
62.5°	926.9	947.4	1097.6	1431.3	2217.7	3693.8	6566.2	9989.8	12698.3	12831.9	9880.6
65°	596.1	601.0	669.3	866.4	1386.4	2496.8	5059.8	8681.5	12014.4	12260.2	9494.2
67.5°	460.5	468.4	495.6	568.9	803.9	1555.2	3578.7	7285.2	10907.9	11225.0	8557.5
70°	408.8	412.7	422.4	445.9	531.8	878.1	2226.5	5691.0	9045.4	9135.1	6697.0
72.5°	333.7	344.4	374.7	382.5	421.5	548.3	1239.1	3819.7	6077.4	6099.9	3746.6
75°	258.5	260.5	305.4	327.8	355.2	377.6	553.2	1926.0	2919.2	2763.1	1444.0
77.5°	193.2	201.9	222.4	250.8	289.8	270.3	247.8	725.9	906.4	889.8	419.6
80°	123.9	128.8	155.2	188.3	225.4	176.6	139.5	212.7	199.1	204.9	100.5
82.5°	62.4	63.4	99.5	153.1	143.4	88.8	87.8	86.9	74.2	73.2	46.8
85°	6.8	14.6	64.4	87.8	64.4	29.3	41.0	40.0	39.0	40.0	27.3
87.5°	1.0	1.0	10.8	12.7	8.7	9.8	11.7	12.7	15.6	14.6	11.7
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°	1183.5	1183.5	1183.5	1183.5	1183.5	1183.5	1183.5	1183.5	1183.5	1183.5	1183.5
2.5°	1218.6	1179.6	1107.3	1038.1	986.4	953.2	910.3	894.7	872.3	869.3	858.6
5°	1271.3	1197.2	1071.3	971.8	891.8	831.2	778.6	734.7	699.5	691.7	695.7
7.5°	1346.4	1236.2	1060.6	924.9	813.7	710.3	626.4	574.7	537.6	523.9	525.9
10°	1431.3	1287.9	1058.6	875.1	705.4	578.6	486.9	441.0	419.6	411.8	402.9
12.5°	1531.8	1347.4	1053.7	798.1	586.3	461.5	396.1	368.8	348.3	342.5	342.5
15°	1645.0	1410.8	1030.3	702.5	476.1	381.5	337.6	316.1	309.3	303.4	303.4
17.5°	1763.0	1473.3	981.5	584.4	395.1	326.8	299.6	286.9	277.1	270.3	270.3
20°	1897.6	1534.7	903.5	480.0	333.7	291.7	270.3	255.7	247.8	242.0	240.0
22.5°	2025.5	1584.4	803.9	394.2	290.7	262.5	243.0	227.3	219.5	216.6	216.6
25°	2158.2	1614.7	683.9	325.9	265.4	238.1	216.6	203.9	197.0	195.1	194.2
27.5°	2286.9	1632.3	578.6	284.9	242.0	215.6	195.1	185.4	178.5	176.6	177.5
30°	2443.0	1635.2	476.1	255.7	221.4	194.2	175.6	166.9	162.9	161.0	160.0
32.5°	2601.1	1631.3	400.1	238.1	201.9	175.6	160.0	153.1	150.3	147.3	147.3
35°	2778.7	1610.9	340.5	220.5	183.4	160.0	146.3	140.5	136.6	133.6	132.7
37.5°	2999.2	1600.1	306.4	201.0	166.9	145.4	132.7	126.8	123.9	120.0	119.0
40°	3346.5	1647.9	295.6	183.4	150.3	131.7	120.0	113.2	109.2	105.4	104.4
42.5°	3779.7	1731.8	278.0	165.8	135.7	119.0	107.3	99.5	92.7	87.8	85.9
45°	4340.7	1842.0	250.8	147.3	123.0	105.4	94.6	84.9	76.1	72.2	71.2
47.5°	4929.0	1948.4	226.3	132.7	109.2	93.7	82.0	71.2	63.4	60.5	59.5
50°	5290.1	1969.9	210.8	116.1	95.6	81.0	69.3	59.5	54.7	51.7	51.7
52.5°	5454.9	1935.7	189.3	101.5	82.9	71.2	59.5	51.7	48.8	46.8	45.8
55°	5570.0	1883.0	161.0	87.8	71.2	60.5	52.6	46.8	42.9	41.0	40.0
57°	5637.4	1811.8	139.5	77.0	61.5	52.6	46.8	42.0	38.0	34.1	34.1
57.5°	5640.3	1784.5	133.6	76.1	58.5	50.7	45.8	41.0	36.1	32.2	31.2
60°	5553.5	1597.1	107.3	64.4	46.8	42.9	38.0	32.2	25.4	21.4	20.5
62.5°	5274.4	1359.1	88.8	54.7	38.0	33.1	27.3	24.4	17.6	12.7	12.7
65°	4852.0	1102.5	76.1	43.9	31.2	24.4	18.5	17.6	10.8	5.9	4.9
67.5°	4241.2	858.6	64.4	36.1	26.3	17.6	12.7	11.7	5.9	1.9	0.0
70°	3231.4	585.4	53.7	29.3	19.5	12.7	8.7	6.8	3.9	1.0	0.0
72.5°	1862.6	321.9	44.9	22.5	14.6	9.8	6.8	3.9	3.9	0.0	0.0
75°	665.4	138.5	34.1	16.6	11.7	7.8	4.9	1.9	2.9	1.0	0.0
77.5°	211.7	74.2	22.5	12.7	9.8	5.9	3.9	1.9	1.9	1.0	0.0
80°	62.4	39.0	13.6	10.8	6.8	4.9	2.9	1.0	1.9	1.0	0.0
82.5°	34.1	19.5	10.8	7.8	6.8	3.9	2.9	1.0	1.0	1.0	0.0
85°	17.6	11.7	8.7	7.8	6.8	3.9	2.9	1.0	0.0	1.0	1.0
87.5°	9.8	8.7	8.7	7.8	6.8	4.9	2.9	1.0	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)