

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: P529449

Luminaire Tested: **GALN-SA4C-760-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-760-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20747 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

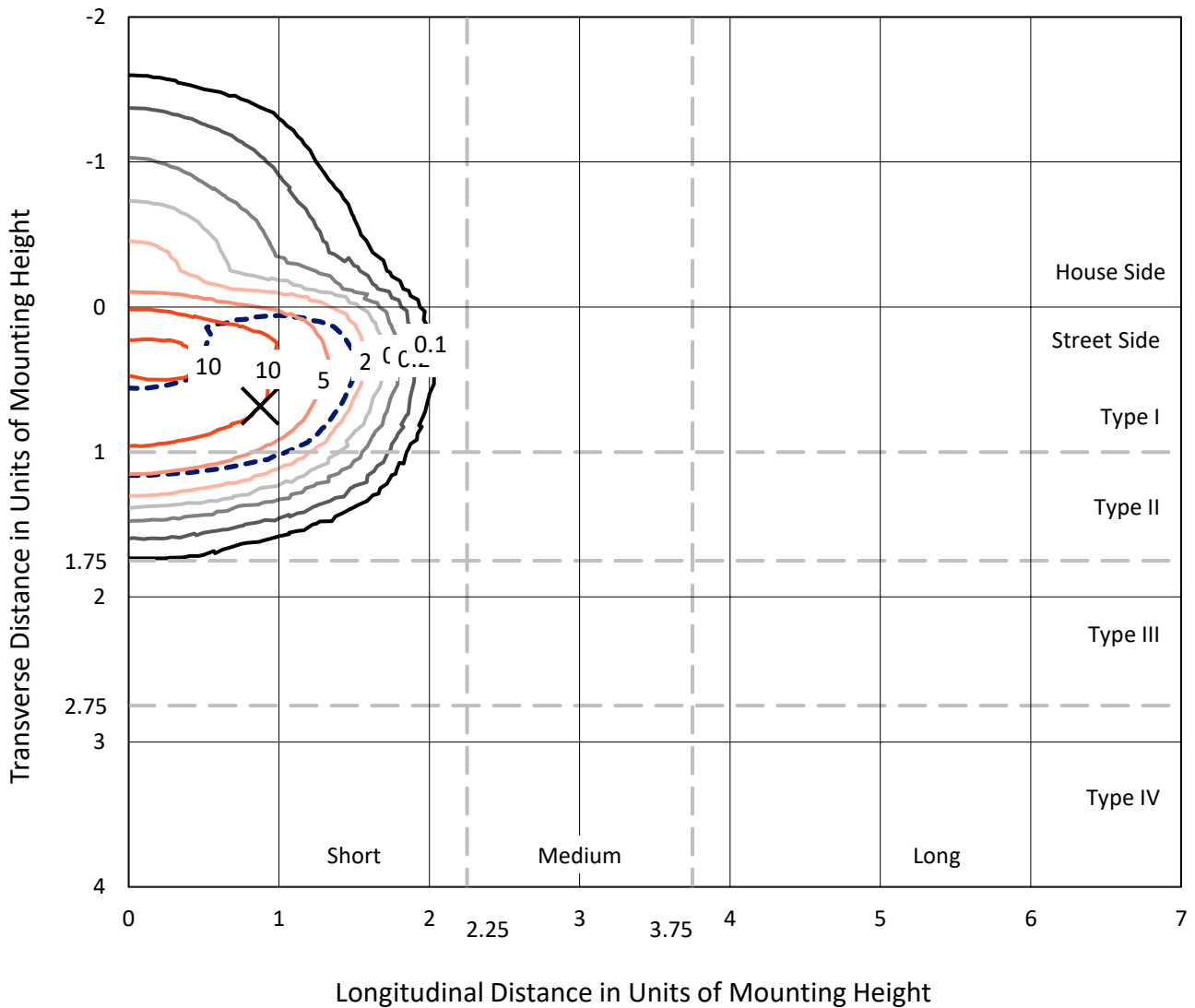
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

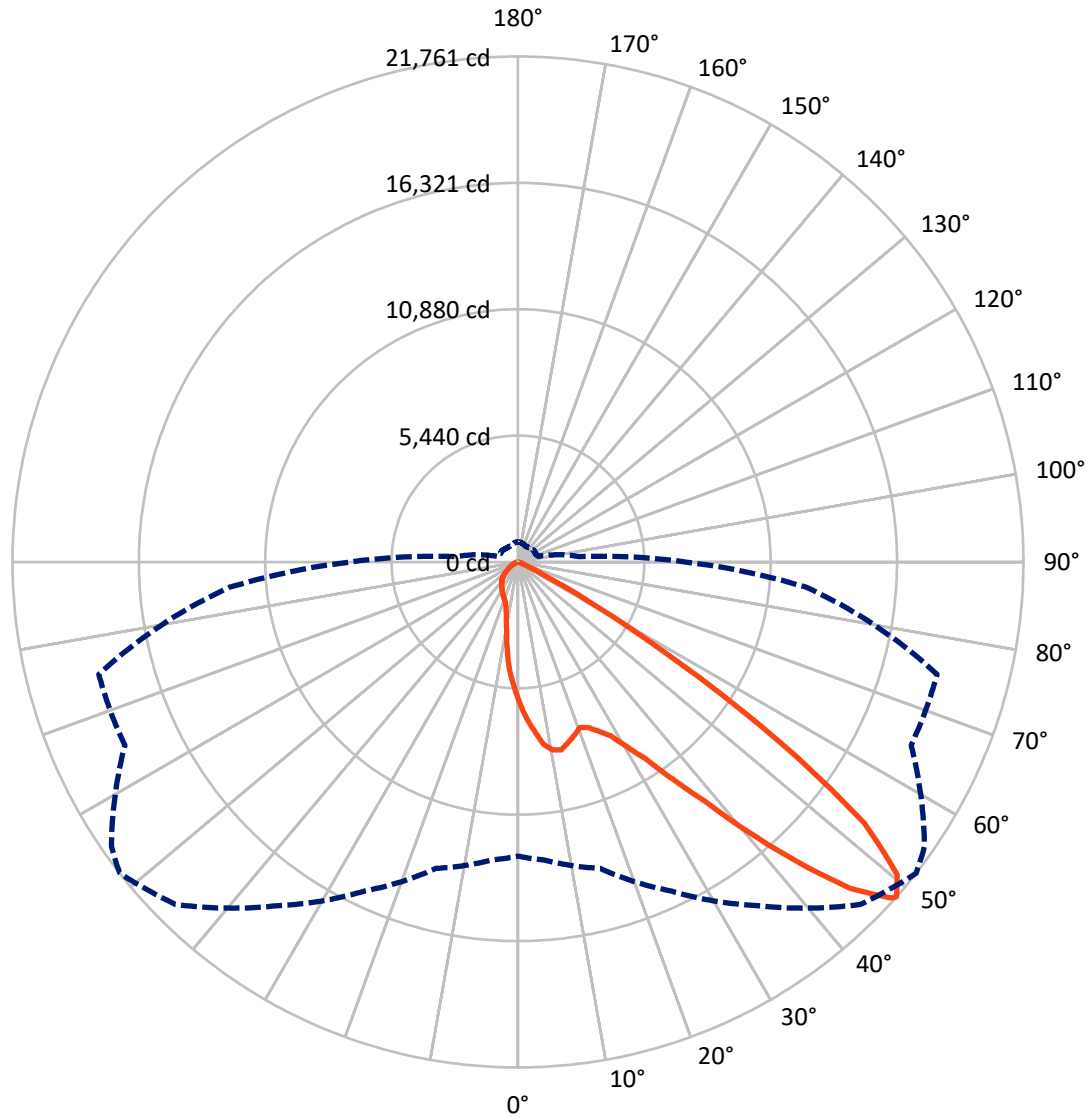
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2526.1	0.0	2526.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	18220.9	0.0	18220.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	20747.0	0.0	20747.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.4	2.6
10°-20°	1433.1	6.9
20°-30°	2446.9	11.8
30°-40°	4506.0	21.7
40°-50°	6997.8	33.7
50°-60°	4211.5	20.3
60°-70°	487.1	2.3
70°-80°	94.3	0.5
80°-90°	21.8	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°	20747.0	100.0
0°-180°	20747.0	100.0

Coefficient of Utilization



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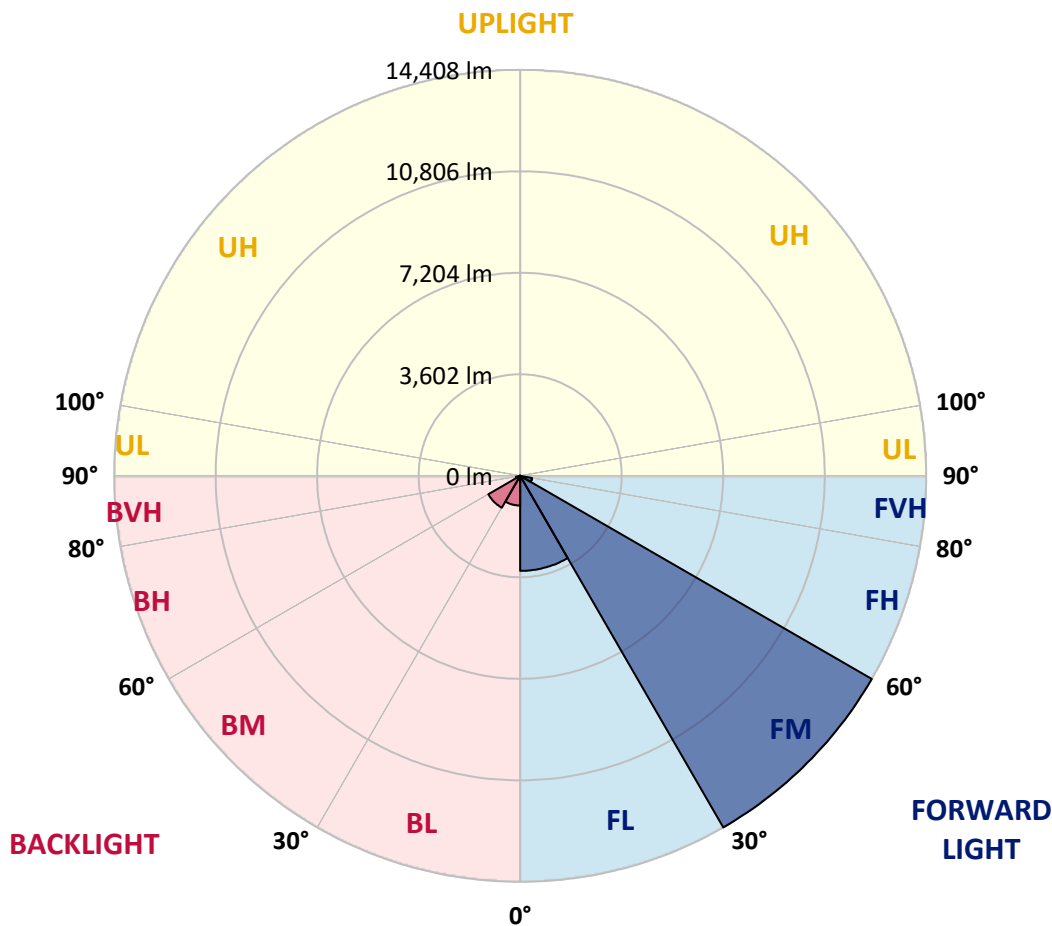
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3373.2	16.3			
FM (30°-60°)	14408.4	69.4			
FH (60°-80°)	428.9	2.1			G0/660
FVH (80°-90°)	10.4	0.0			G1/100
BL (0°-30°)	1055.2	5.1	B3/2500		
BM (30°-60°)	1307.0	6.3	B2/2500		
BH (60°-80°)	152.5	0.7	B1/500		G1/500
BVH (80°-90°)	11.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5991.4	5991.4	5991.4	5991.4	5991.4	5991.4	5991.4	5991.4	5991.4	5991.4	5991.4
2.5°	7261.6	7095.3	7110.4	7001.5	6938.0	6835.2	6696.1	6668.9	6517.6	6312.0	6103.3
5°	7914.9	7875.6	7927.0	7769.8	7775.8	7606.4	7279.8	7285.8	6938.0	6602.3	6278.7
7.5°	7957.3	7866.5	7917.9	8057.1	8138.7	8108.5	7924.0	7763.7	7434.0	6941.1	6469.2
10°	7125.5	7297.9	7352.4	7582.2	7908.9	8253.7	8232.5	8241.6	7966.3	7322.1	6632.6
12.5°	6626.5	6511.6	6696.1	6835.2	7328.2	7996.6	8302.1	8368.6	8389.8	7691.1	6795.9
15°	6399.7	6399.7	6429.9	6469.2	6826.1	7443.1	8066.1	8259.7	8716.4	8175.0	7053.0
17.5°	6541.8	6535.8	6578.1	6496.5	6629.5	7104.4	7848.4	8069.2	9082.4	8649.9	7255.6
20°	6974.3	6995.5	6968.3	6732.4	6741.4	7098.3	7606.4	7954.2	9330.4	9061.2	7524.8
22.5°	7576.2	7588.3	7434.0	7177.0	7101.4	7276.8	7745.6	8011.7	9530.0	9554.2	7606.4
25°	8271.8	8223.4	8193.2	7830.2	7600.4	7751.6	8060.1	8214.3	9654.0	9977.6	7839.3
27.5°	9236.6	9139.8	8955.3	8631.7	8462.3	8247.6	8468.4	8722.4	10007.8	10570.4	8093.4
30°	10661.1	10576.4	10216.5	9799.1	9354.6	9142.8	9212.4	9351.5	10646.0	11256.9	8429.1
32.5°	12805.4	12627.0	12106.8	11311.4	10706.5	10122.8	10104.6	10252.8	11217.6	12206.6	8828.3
35°	15167.5	15113.1	14347.9	13528.3	12357.8	11456.5	11471.6	11550.3	12312.4	13452.6	9351.5
37.5°	16737.2	17036.6	16549.7	15669.6	14686.6	13398.2	13071.6	13098.8	13815.6	14928.6	10295.1
40°	17950.0	17695.9	17753.4	17547.7	16876.3	15999.2	15276.4	15134.2	15554.6	16561.8	11232.7
42.5°	17420.7	17432.8	17786.7	18273.6	18439.9	18376.4	17638.5	17369.3	17042.6	17898.6	12124.9
45°	15926.6	16238.1	16697.9	17986.3	19117.4	20179.0	20033.8	19586.2	18070.9	18957.1	12639.1
47.5°	13543.4	13531.3	14284.4	15959.9	18473.2	20959.3	21618.6	21304.1	18799.8	18839.2	12533.2
48°	12663.3	12881.0	13658.3	15630.2	18064.9	20844.3	21760.7	21364.5	18675.8	18681.9	12442.5
50°	9360.6	9321.3	10289.1	12708.6	16135.3	19586.2	21161.9	21470.4	18672.8	17886.5	11807.4
52.5°	4944.9	5114.3	5819.0	7990.5	11408.1	16029.5	18666.8	19147.6	18013.5	16586.0	10894.0
55°	2102.0	1899.3	2440.7	3608.1	6417.8	10709.5	13694.6	14765.3	15231.0	14677.5	9530.0
57.5°	750.1	819.6	943.6	1358.0	2697.8	5861.3	8166.0	8997.7	10552.2	10770.0	6493.4
60°	480.9	490.0	529.3	623.0	1013.2	2259.2	3874.3	4536.6	5241.3	5410.7	3030.5
62.5°	372.0	375.0	393.2	408.3	480.9	877.1	1454.7	1723.9	1790.5	1539.4	795.4
65°	311.5	314.5	320.6	320.6	341.8	411.3	508.1	559.5	544.4	538.3	450.6
67.5°	238.9	245.0	257.1	257.1	269.2	251.0	281.3	299.4	338.7	411.3	384.1
70°	187.5	190.5	199.6	205.7	205.7	181.5	202.6	220.8	248.0	305.5	302.4
72.5°	145.2	151.2	157.3	157.3	148.2	124.0	145.2	160.3	178.4	211.7	205.7
75°	111.9	111.9	114.9	93.8	72.6	63.5	87.7	105.9	133.1	139.1	114.9
77.5°	30.2	33.3	30.2	27.2	30.2	45.4	57.5	66.5	84.7	84.7	75.6
80°	0.0	3.0	9.1	18.1	30.2	42.3	51.4	57.5	66.5	72.6	69.6
82.5°	0.0	3.0	9.1	18.1	27.2	33.3	45.4	48.4	54.4	63.5	63.5
85°	0.0	3.0	6.0	12.1	18.1	21.2	21.2	18.1	18.1	15.1	12.1
87.5°	0.0	0.0	3.0	6.0	6.0	9.1	9.1	9.1	9.1	9.1	9.1
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°	5991.4	5991.4	5991.4	5991.4	5991.4	5991.4	5991.4	5991.4	5991.4	5991.4	5991.4
2.5°	6021.6	5927.9	5785.7	5561.9	5347.2	5208.1	5075.0	4926.8	4845.1	4839.1	4793.7
5°	6094.2	5882.5	5543.8	5159.7	4748.3	4394.5	4037.6	3804.7	3596.0	3481.1	3459.9
7.5°	6133.5	5858.3	5310.9	4666.7	3965.0	3387.4	2988.1	2694.8	2579.8	2495.2	2492.1
10°	6215.2	5816.0	4963.1	4013.4	3145.4	2561.7	2286.5	2153.4	2089.9	2065.7	2029.4
12.5°	6275.7	5737.3	4606.2	3342.0	2486.1	2123.1	2002.2	1971.9	1975.0	1987.0	1971.9
15°	6360.4	5667.8	4125.3	2743.2	2086.9	1911.4	1911.4	1917.5	1959.8	1965.9	1962.9
17.5°	6354.3	5531.7	3629.3	2259.2	1844.9	1820.7	1829.8	1887.2	1914.5	1923.5	1902.4
20°	6426.9	5404.7	3118.2	1929.6	1708.8	1745.1	1805.6	1820.7	1854.0	1860.0	1835.8
22.5°	6405.7	5087.1	2643.3	1669.5	1606.0	1675.5	1736.0	1754.2	1745.1	1726.9	1723.9
25°	6366.4	4814.9	2207.8	1497.1	1530.4	1606.0	1663.4	1630.2	1612.0	1615.0	1618.1
27.5°	6296.9	4470.1	1847.9	1376.1	1427.5	1539.4	1536.4	1524.3	1542.5	1527.3	1542.5
30°	6284.8	4125.3	1551.5	1267.2	1351.9	1433.6	1439.6	1460.8	1482.0	1454.7	1482.0
32.5°	6302.9	3747.3	1339.8	1200.7	1306.6	1309.6	1376.1	1397.3	1382.2	1321.7	1327.7
35°	6442.0	3456.9	1185.6	1164.4	1234.0	1237.0	1300.5	1273.3	1206.7	1170.5	1191.6
37.5°	6735.4	3215.0	1113.0	1131.1	1137.2	1176.5	1179.5	1125.1	1131.1	1128.1	1140.2
40°	7110.4	3030.5	1061.6	1100.9	1094.8	1122.1	1013.2	1043.4	1070.6	1079.7	1085.8
42.5°	7367.5	2897.4	1028.3	1052.5	1040.4	992.0	931.5	961.8	982.9	1016.2	1022.3
45°	7482.4	2791.5	989.0	967.8	967.8	880.1	855.9	862.0	910.4	946.6	940.6
47.5°	7294.9	2688.7	919.4	855.9	877.1	804.5	777.3	777.3	828.7	874.1	865.0
48°	7222.3	2646.4	922.5	831.7	846.8	792.4	765.2	759.1	816.6	858.9	858.9
50°	6862.4	2489.1	843.8	765.2	734.9	728.9	710.7	716.8	753.1	792.4	792.4
52.5°	6160.8	2150.4	713.8	656.3	601.9	638.2	647.2	635.1	653.3	689.6	686.5
55°	5141.5	1651.3	571.6	544.4	502.1	541.4	559.5	544.4	526.3	553.5	553.5
57.5°	3293.6	889.2	456.7	462.7	420.4	459.7	474.8	438.5	405.3	426.4	423.4
60°	1485.0	532.3	375.0	366.0	338.7	384.1	408.3	366.0	320.6	335.7	350.8
62.5°	556.5	378.1	284.3	278.2	272.2	314.5	326.6	293.4	248.0	257.1	260.1
65°	408.3	332.7	226.8	205.7	217.8	248.0	242.0	208.7	178.4	178.4	184.5
67.5°	347.8	290.3	184.5	160.3	160.3	163.3	151.2	133.1	124.0	130.1	136.1
70°	272.2	229.9	145.2	124.0	111.9	99.8	87.7	84.7	75.6	84.7	81.7
72.5°	175.4	154.2	111.9	93.8	84.7	69.6	57.5	54.4	45.4	42.3	42.3
75°	93.8	93.8	87.7	75.6	66.5	54.4	45.4	36.3	24.2	18.1	18.1
77.5°	66.5	72.6	78.6	72.6	60.5	45.4	36.3	24.2	12.1	6.0	6.0
80°	63.5	72.6	78.6	69.6	60.5	45.4	33.3	18.1	9.1	3.0	3.0
82.5°	57.5	66.5	72.6	63.5	54.4	39.3	30.2	18.1	9.1	3.0	3.0
85°	12.1	15.1	18.1	18.1	21.2	27.2	21.2	15.1	6.0	3.0	3.0
87.5°	9.1	9.1	9.1	9.1	9.1	9.1	6.0	6.0	3.0	3.0	3.0
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)