

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: P530975

Luminaire Tested: **GALN-SA6B-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17162 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

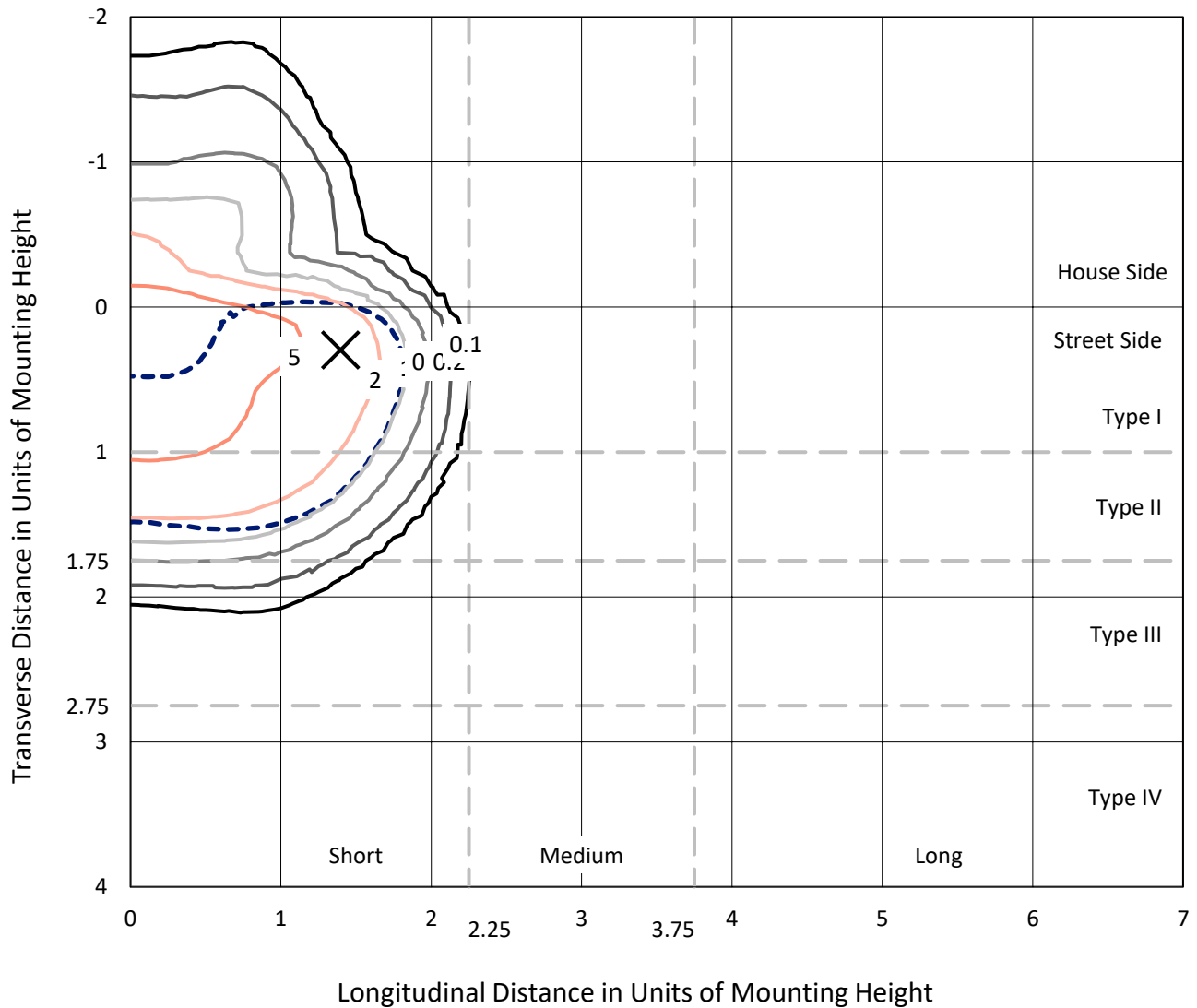
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

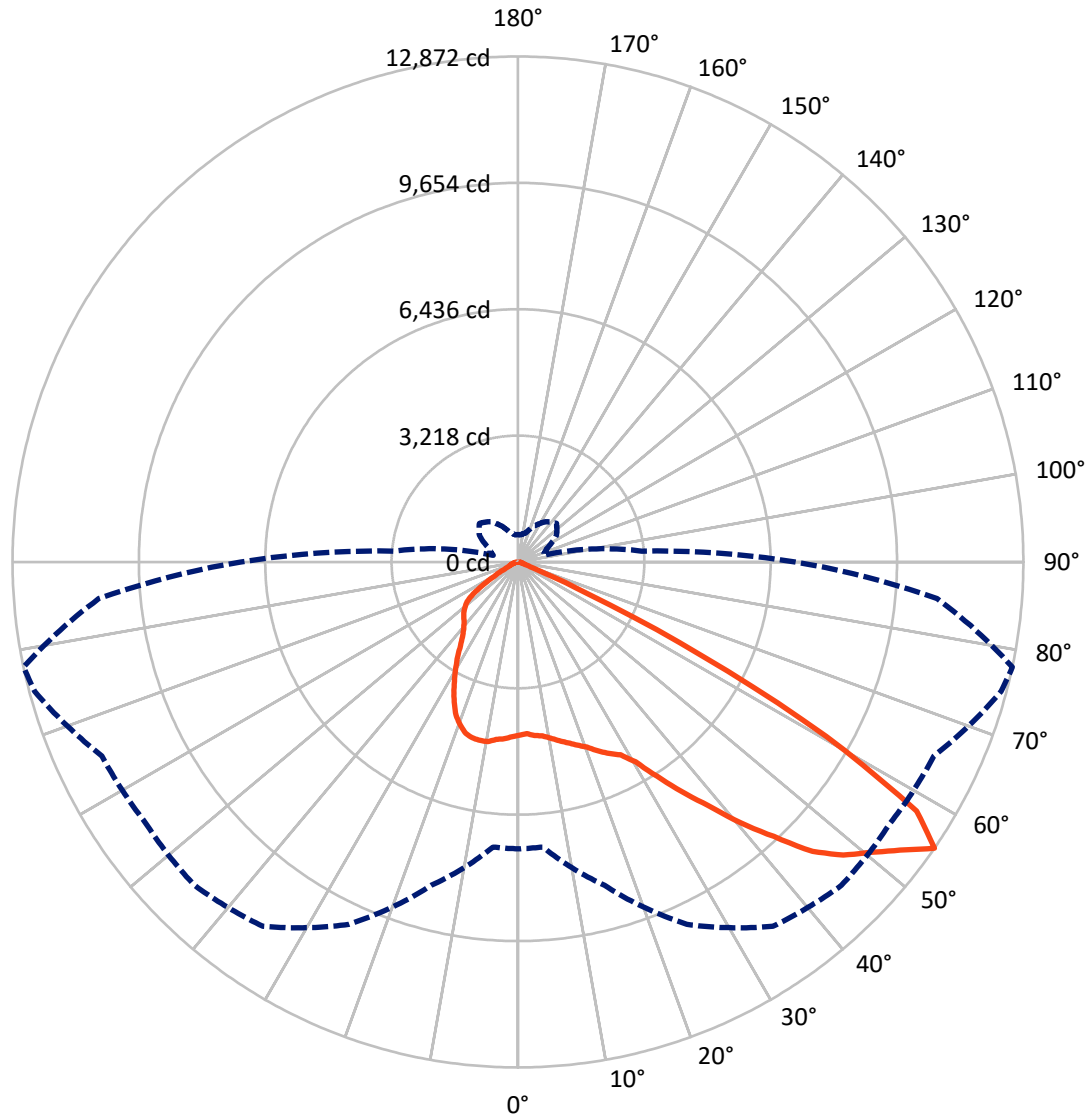
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3187.6	0.0	3187.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	13974.4	0.0	13974.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	17162.0	0.0	17162.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.4	2.3
10°-20°	1041.2	6.1
20°-30°	1825.1	10.6
30°-40°	3009.4	17.5
40°-50°	4379.1	25.5
50°-60°	4961.9	28.9
60°-70°	1418.7	8.3
70°-80°	110.2	0.6
80°-90°	22.9	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°	17162.0	100.0
0°-180°	17162.0	100.0

Coefficient of Utilization



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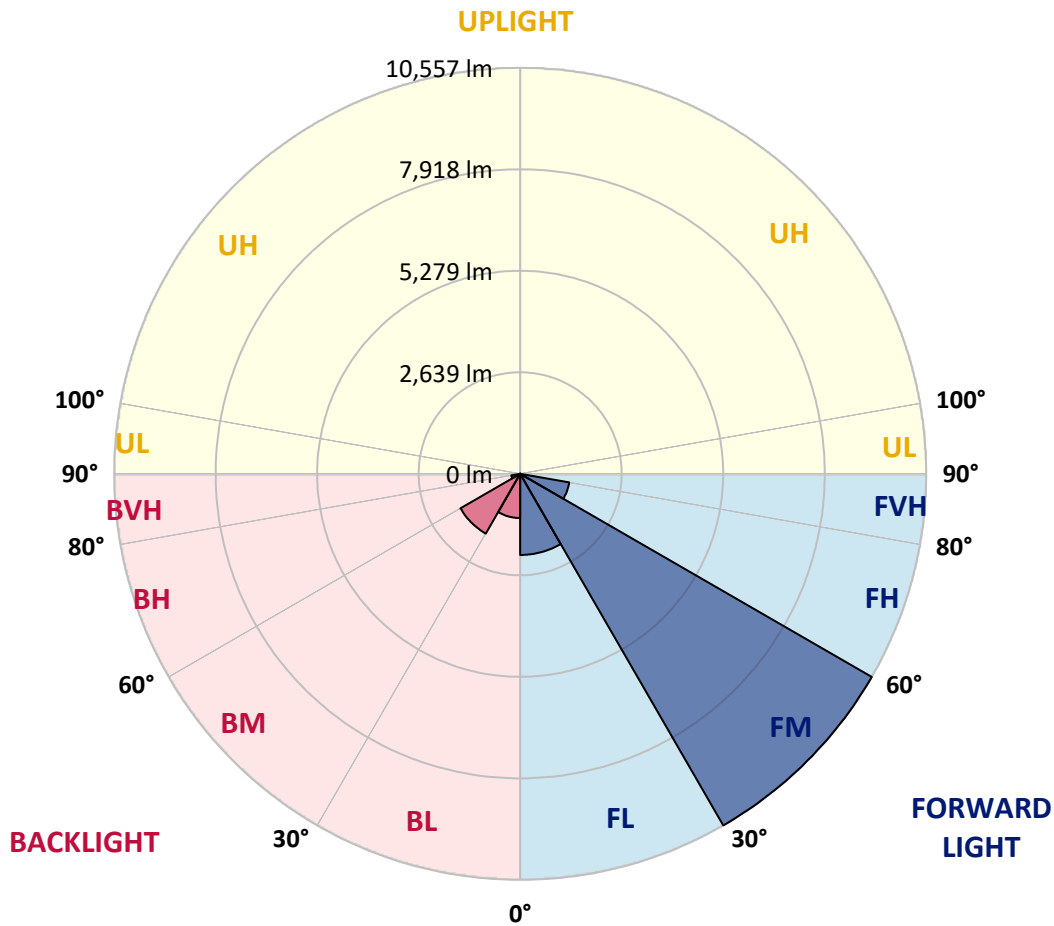
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2109.7	12.3			
FM (30°-60°)	10557.3	61.5			
FH (60°-80°)	1296.2	7.6			G1/1800
FVH (80°-90°)	11.2	0.1			G1/100
BL (0°-30°)	1150.1	6.7	B3/2500		
BM (30°-60°)	1793.1	10.4	B2/2500		
BH (60°-80°)	232.7	1.4	B1/500		G1/500
BVH (80°-90°)	11.8	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°	55°	65°	75°	78°	85°
0°	4412.4	4412.4	4412.4	4412.4	4412.4	4412.4	4412.4	4412.4	4412.4	4412.4	4412.4
2.5°	4148.5	4188.4	4194.5	4243.6	4240.5	4323.4	4347.9	4351.0	4406.2	4378.6	4449.2
5°	4031.9	4010.4	4001.2	4087.1	4111.7	4185.3	4246.7	4283.5	4397.0	4436.9	4510.5
7.5°	3927.6	3927.6	3933.7	4010.4	4001.2	4096.3	4160.8	4274.3	4440.0	4473.7	4562.7
10°	3826.3	3789.5	3835.5	3915.3	3982.8	4025.7	4160.8	4268.1	4461.5	4559.6	4682.4
12.5°	3774.1	3792.5	3798.7	3857.0	3930.6	4059.5	4133.1	4311.1	4614.9	4673.2	4805.1
15°	4102.5	4065.6	3976.6	3924.5	3985.9	4047.2	4231.3	4412.4	4694.7	4777.5	4924.8
17.5°	4482.9	4452.2	4378.6	4237.5	4099.4	4212.9	4357.1	4522.8	4780.6	4903.3	5121.2
20°	4980.0	4930.9	4857.3	4581.1	4461.5	4338.7	4492.1	4688.5	4921.7	5032.2	5256.2
22.5°	5572.2	5572.2	5406.5	5072.1	4823.5	4706.9	4771.4	4884.9	5078.2	5228.6	5449.5
25°	6189.0	6170.6	6020.2	5673.5	5253.1	5115.0	5188.7	5268.4	5320.6	5403.5	5550.7
27.5°	6894.7	6787.3	6597.1	6213.5	5842.2	5575.3	5655.1	5584.5	5520.1	5563.0	5774.7
30°	7373.4	7440.9	7198.5	6830.3	6480.5	6182.8	6198.2	6136.8	5842.2	5903.6	6029.4
32.5°	7870.4	7913.4	7778.4	7575.9	7226.1	6879.4	6753.6	6701.4	6480.5	6508.1	6385.3
35°	8284.7	8367.5	8247.9	8158.9	8057.6	7778.4	7431.7	7600.4	7244.5	7177.0	6857.9
37.5°	8665.2	8640.6	8781.8	8689.7	8668.2	8471.9	8091.4	8125.1	7885.8	7870.4	7502.2
40°	9005.8	9011.9	9205.2	9248.2	9162.2	8812.4	8260.1	8527.1	8720.4	8738.8	8266.3
42.5°	9288.0	9370.9	9536.6	9883.3	9754.4	9171.4	8435.0	8726.5	9444.5	9558.1	8990.4
45°	9533.5	9702.3	9907.9	10217.8	10144.1	9680.8	8870.7	9137.7	10217.8	10515.4	9671.6
47.5°	9548.9	9769.8	9993.8	10454.0	10546.1	9953.9	9321.8	9788.2	10831.5	11153.6	10168.7
50°	9487.5	9604.1	10052.1	10552.2	10760.9	10398.8	9953.9	10334.4	11426.7	11629.2	10420.3
52.5°	8760.3	8849.3	9748.3	10644.3	11147.5	10902.0	10791.6	11095.3	12034.3	12184.6	10656.6
55°	7302.8	7287.5	8524.0	10181.0	11325.5	11647.6	11580.1	11687.5	12736.9	12871.9	10714.9
57.5°	4995.4	5274.6	6342.4	8478.0	10236.2	11472.8	11543.3	11365.4	11917.7	11969.8	9340.2
60°	2694.1	2810.7	3669.8	5658.1	7793.7	9349.4	9533.5	9211.3	9168.4	9021.1	6667.6
62.5°	1070.9	1129.2	1617.0	2801.4	4246.7	5682.7	6078.5	5946.6	5664.3	5277.6	3452.0
65°	509.4	546.2	803.9	1310.2	1884.0	2368.8	2764.6	2887.4	2129.5	1917.8	1138.4
67.5°	346.7	374.3	586.1	748.7	672.0	702.7	914.4	849.9	500.1	426.5	316.0
70°	263.9	282.3	469.5	509.4	300.7	211.7	236.3	220.9	205.6	208.7	205.6
72.5°	187.2	202.5	343.7	300.7	131.9	98.2	125.8	150.4	150.4	150.4	147.3
75°	113.5	128.9	199.4	116.6	52.2	52.2	79.8	101.3	107.4	110.5	104.3
77.5°	58.3	73.6	67.5	33.8	33.8	39.9	58.3	70.6	76.7	76.7	73.6
80°	12.3	12.3	12.3	18.4	33.8	43.0	58.3	64.4	73.6	73.6	67.5
82.5°	0.0	3.1	9.2	18.4	30.7	39.9	55.2	64.4	73.6	76.7	70.6
85°	0.0	3.1	6.1	12.3	21.5	24.5	21.5	18.4	18.4	18.4	18.4
87.5°	0.0	0.0	3.1	3.1	3.1	6.1	6.1	6.1	6.1	6.1	6.1
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°	4412.4	4412.4	4412.4	4412.4	4412.4	4412.4	4412.4	4412.4	4412.4	4412.4	4412.4
2.5°	4455.3	4464.5	4449.2	4446.1	4433.8	4470.7	4381.7	4360.2	4415.4	4363.3	4375.5
5°	4513.6	4535.1	4507.5	4461.5	4393.9	4289.6	4200.6	4084.0	4028.8	3988.9	3982.8
7.5°	4556.6	4571.9	4544.3	4397.0	4194.5	3930.6	3734.2	3590.0	3476.5	3442.7	3387.5
10°	4731.5	4734.5	4596.5	4271.2	3875.4	3528.7	3228.0	3007.0	2893.5	2822.9	2792.2
12.5°	4848.1	4841.9	4562.7	4022.7	3494.9	3034.6	2691.0	2424.0	2319.7	2286.0	2264.5
15°	4995.4	4961.6	4482.9	3768.0	3004.0	2506.9	2197.0	2012.9	2003.7	1982.2	2003.7
17.5°	5112.0	5016.8	4366.3	3304.7	2534.5	2065.0	1862.5	1874.8	1899.3	1920.8	1923.9
20°	5302.2	5105.8	4099.4	2899.6	2098.8	1770.5	1767.4	1822.6	1884.0	1908.5	1933.1
22.5°	5446.4	5142.6	3814.0	2467.0	1742.9	1650.8	1703.0	1785.8	1831.8	1856.4	1893.2
25°	5498.6	5041.4	3433.5	2034.3	1571.0	1595.6	1675.3	1730.6	1788.9	1816.5	1801.2
27.5°	5550.7	4989.2	2979.4	1675.3	1479.0	1558.7	1626.3	1681.5	1699.9	1736.7	1761.3
30°	5676.5	4808.2	2571.3	1448.3	1432.9	1534.2	1583.3	1601.7	1650.8	1672.3	1672.3
32.5°	5777.8	4737.6	2138.7	1340.9	1426.8	1546.5	1552.6	1552.6	1558.7	1543.4	1537.3
35°	5986.4	4495.2	1752.1	1276.5	1423.7	1549.5	1564.9	1512.7	1371.6	1316.3	1301.0
37.5°	6244.2	4338.7	1466.7	1261.1	1445.2	1586.4	1610.9	1414.5	1230.4	1141.4	1126.1
40°	6557.2	4228.3	1279.5	1255.0	1494.3	1672.3	1598.6	1337.8	1098.5	969.6	963.5
42.5°	6922.3	4127.0	1153.7	1251.9	1555.7	1761.3	1586.4	1273.4	963.5	877.6	889.8
45°	7213.8	4071.8	1067.8	1230.4	1577.2	1813.4	1595.6	1159.9	908.2	853.0	859.2
47.5°	7440.9	3955.2	997.2	1193.6	1574.1	1831.8	1512.7	1113.8	880.6	896.0	911.3
50°	7447.0	3798.7	908.2	1113.8	1528.1	1798.1	1417.6	1070.9	874.5	938.9	969.6
52.5°	7364.2	3577.8	813.1	1000.3	1420.7	1681.5	1331.7	1052.5	846.9	840.7	877.6
55°	7069.6	3163.5	653.6	810.1	1199.7	1386.9	1255.0	1018.7	764.0	693.5	699.6
57.5°	5713.4	2267.5	481.7	579.9	849.9	1015.6	1132.2	1003.4	687.3	589.1	592.2
60°	3537.9	1285.7	352.9	395.8	524.7	616.7	917.5	932.8	613.7	497.1	490.9
62.5°	1816.5	635.2	273.1	279.2	322.2	362.1	629.0	782.4	555.4	472.5	472.5
65°	607.5	313.0	239.3	214.8	214.8	224.0	380.5	543.1	469.5	395.8	395.8
67.5°	260.8	233.2	208.7	187.2	171.8	162.6	214.8	316.0	349.8	300.7	288.4
70°	202.5	196.4	181.0	156.5	135.0	122.7	125.8	162.6	199.4	193.3	187.2
72.5°	150.4	150.4	144.2	122.7	104.3	89.0	82.8	85.9	95.1	98.2	101.3
75°	104.3	107.4	107.4	95.1	76.7	64.4	55.2	46.0	36.8	30.7	27.6
77.5°	70.6	73.6	79.8	70.6	58.3	43.0	33.8	24.5	15.3	6.1	6.1
80°	61.4	70.6	76.7	70.6	61.4	46.0	33.8	18.4	9.2	0.0	0.0
82.5°	64.4	70.6	79.8	67.5	58.3	43.0	33.8	21.5	9.2	3.1	0.0
85°	15.3	15.3	18.4	21.5	27.6	30.7	24.5	15.3	9.2	3.1	0.0
87.5°	6.1	6.1	6.1	6.1	6.1	3.1	3.1	3.1	3.1	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)