

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: P530884

Luminaire Tested: **GALN-SA6A-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530884
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16897 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

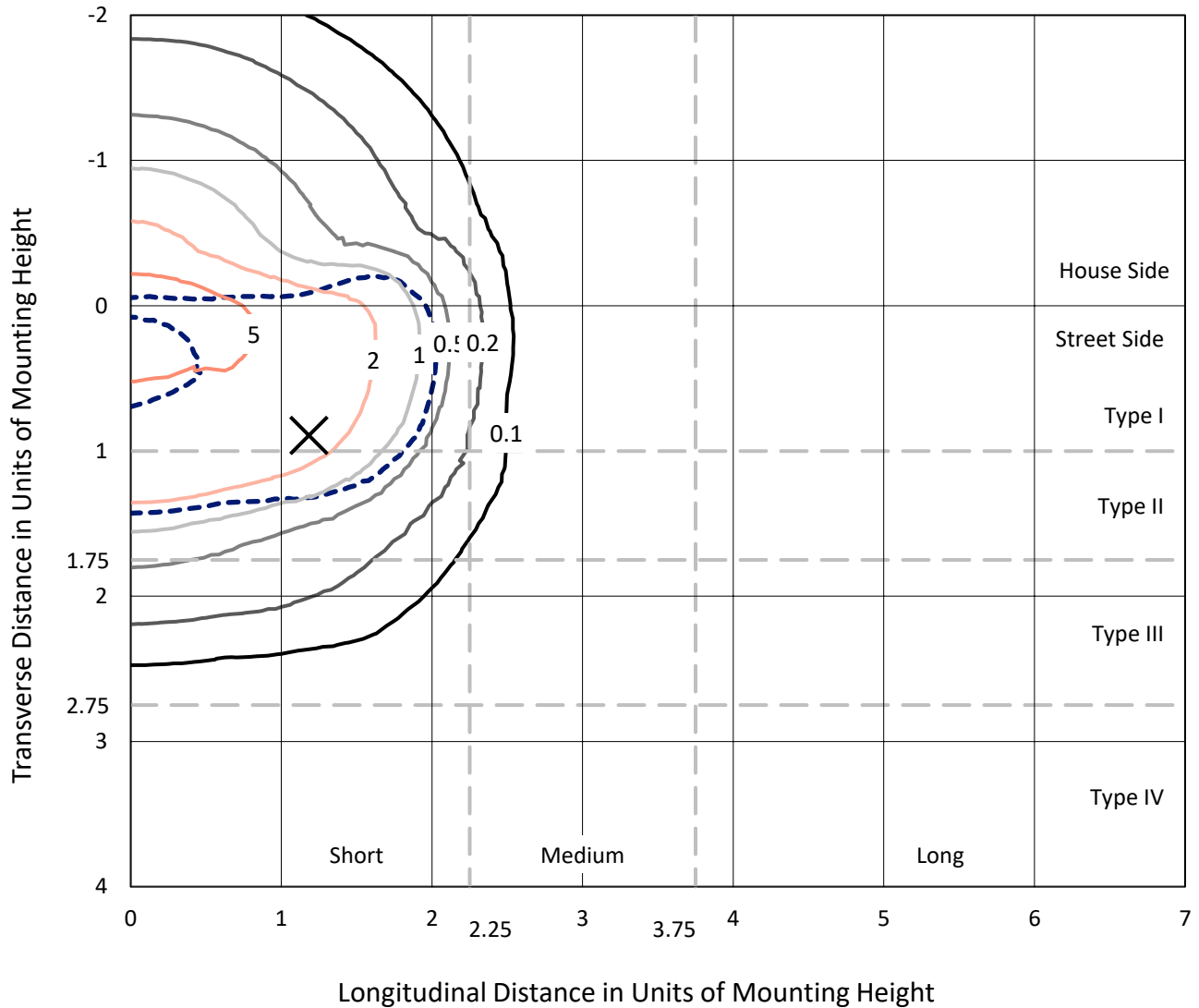
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

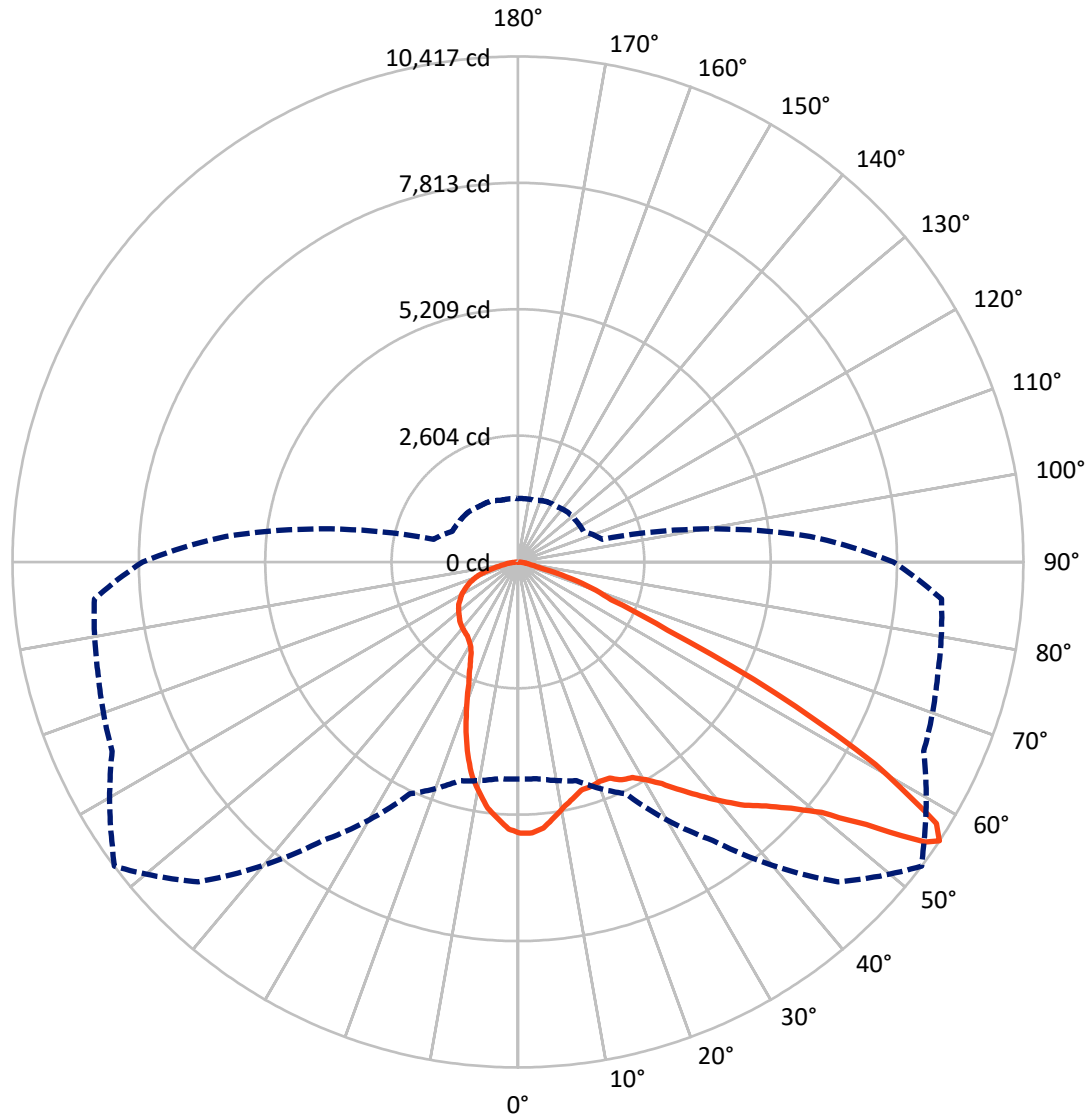
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4930.9	0.0	4930.9
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	11966.1	0.0	11966.1
	% Fixture	70.8	0.0	70.8
Total	Lumens	16897.0	0.0	16897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.9	2.9
10°-20°	1236.0	7.3
20°-30°	1822.6	10.8
30°-40°	2604.2	15.4
40°-50°	3584.3	21.2
50°-60°	4235.7	25.1
60°-70°	2257.3	13.4
70°-80°	572.7	3.4
80°-90°	89.3	0.5
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°	16897.0	100.0
0°-180°	16897.0	100.0

Coefficient of Utilization



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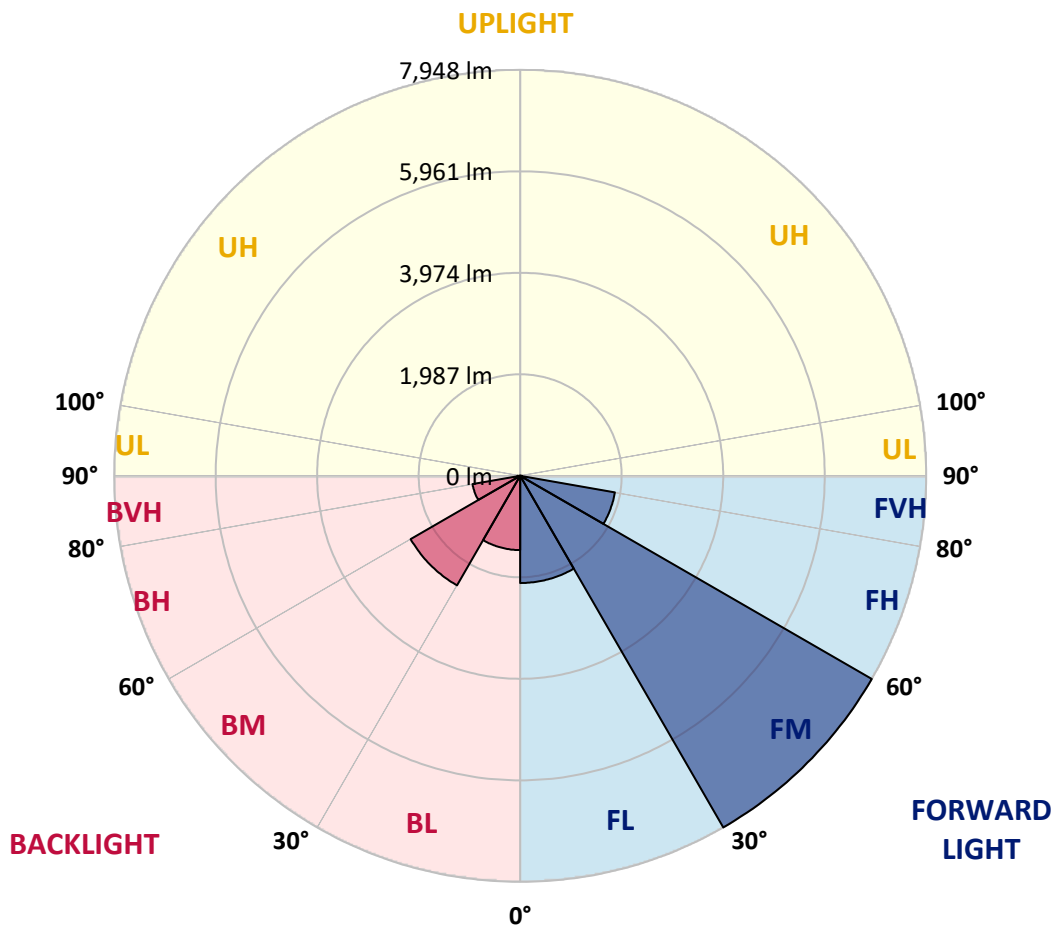
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2099.2	12.4			
FM (30°-60°)	7948.0	47.0			
FH (60°-80°)	1883.0	11.1			G2/5000
FVH (80°-90°)	35.9	0.2			G1/100
BL (0°-30°)	1454.3	8.6	B3/2500		
BM (30°-60°)	2476.1	14.7	B2/2500		
BH (60°-80°)	947.0	5.6	B2/1000		G2/1000
BVH (80°-90°)	53.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5590.2	5590.2	5590.2	5590.2	5590.2	5590.2	5590.2	5590.2	5590.2	5590.2	5590.2
2.5°	5520.8	5473.1	5501.3	5490.5	5579.4	5605.4	5592.4	5603.2	5653.1	5629.2	5579.4
5°	5158.8	5226.0	5239.0	5271.6	5323.6	5425.5	5505.7	5527.3	5551.2	5661.7	5650.9
7.5°	4829.4	4874.9	4851.0	4946.4	5059.1	5223.9	5321.4	5338.8	5557.7	5618.4	5663.9
10°	4621.3	4575.8	4684.1	4710.2	4838.0	5026.6	5143.7	5215.2	5414.6	5655.2	5683.4
12.5°	4428.4	4413.2	4478.2	4551.9	4695.0	4890.1	5009.3	5037.5	5345.3	5598.9	5731.1
15°	4285.3	4268.0	4333.0	4387.2	4554.1	4727.5	4879.2	4959.4	5269.4	5566.4	5689.9
17.5°	4172.6	4170.4	4207.3	4304.8	4476.1	4621.3	4866.2	4870.6	5230.4	5616.2	5724.6
20°	4166.1	4163.9	4170.4	4278.8	4434.9	4612.6	4825.0	4864.1	5230.4	5581.5	5726.8
22.5°	4220.3	4185.6	4224.6	4294.0	4406.7	4627.8	4840.2	4926.9	5356.1	5752.8	5824.3
25°	4307.0	4315.7	4337.3	4361.2	4426.2	4662.5	4974.6	5046.1	5503.5	5900.2	5958.7
27.5°	4465.2	4460.9	4469.6	4482.6	4538.9	4695.0	5028.8	5213.0	5811.3	6162.4	6103.9
30°	4697.1	4682.0	4716.7	4762.2	4710.2	4799.0	5208.7	5347.4	6097.4	6426.9	6266.5
32.5°	4907.4	4963.8	5028.8	5048.3	4985.4	5002.8	5447.1	5588.0	6335.8	6752.0	6465.9
35°	5169.7	5215.2	5301.9	5362.6	5351.8	5299.7	5772.3	5958.7	6680.5	6990.5	6676.2
37.5°	5425.5	5479.6	5622.7	5802.6	5702.9	5679.1	6119.1	6273.0	6786.7	7118.3	6830.1
40°	5837.3	5835.1	6082.2	6175.4	6264.3	6223.1	6478.9	6530.9	6843.1	7090.2	6834.4
42.5°	6320.7	6290.3	6541.8	6687.0	6801.9	6806.2	6853.9	6836.6	6869.1	6947.1	6788.9
45°	6780.2	6845.2	7098.8	7358.9	7473.8	7486.8	7170.4	7137.8	6914.6	6905.9	6702.2
47.5°	7341.6	7356.8	7564.9	7907.3	8174.0	8082.9	7580.0	7508.5	7114.0	7181.2	6847.4
50°	7374.1	7486.8	7673.2	8076.4	8895.8	8871.9	8111.1	7976.7	7434.8	7571.4	7252.7
52.5°	6693.5	6667.5	6888.6	7547.5	8841.6	9656.6	8991.1	8670.3	8124.1	8020.1	7909.5
55°	5100.3	5161.0	5356.1	6021.5	7677.6	9667.4	10189.8	9927.5	8861.1	8683.3	8555.4
56°	4473.9	4482.6	4666.8	5273.7	7005.6	9322.8	10417.4	10205.0	9227.4	8956.4	8761.4
57.5°	3708.7	3658.9	3754.3	4085.9	5913.2	8594.5	10168.1	10376.2	9656.6	9251.2	8980.3
60°	2919.7	2908.9	2869.9	2930.6	3736.9	6474.6	8464.4	8932.6	9613.2	8973.8	8601.0
62.5°	2384.3	2330.2	2408.2	2494.9	2596.8	4016.5	5947.8	6223.1	7632.1	7163.9	6461.6
65°	1848.9	1822.9	1920.5	2202.3	2263.0	2551.2	3387.9	3600.4	4506.4	4426.2	3897.3
67.5°	1272.4	1276.7	1361.2	1790.4	2098.2	2072.2	2074.4	2184.9	2351.8	1747.1	1521.6
70°	806.3	804.2	849.7	1153.2	1688.5	1705.9	1619.2	1586.7	1504.3	910.4	964.6
72.5°	518.1	502.9	526.7	637.3	873.5	1010.1	1040.4	1059.9	871.4	715.3	776.0
75°	292.6	277.5	268.8	297.0	344.6	398.8	437.9	450.9	505.0	541.9	574.4
77.5°	88.9	80.2	97.5	130.1	171.2	229.8	279.6	288.3	340.3	383.7	416.2
80°	39.0	43.4	60.7	86.7	121.4	162.6	197.2	210.3	244.9	277.5	286.1
82.5°	23.8	26.0	41.2	58.5	84.5	114.9	140.9	145.2	179.9	205.9	212.4
85°	8.7	10.8	21.7	34.7	54.2	73.7	73.7	80.2	73.7	73.7	80.2
87.5°	0.0	0.0	2.2	4.3	4.3	6.5	8.7	8.7	10.8	13.0	15.2
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°	5590.2	5590.2	5590.2	5590.2	5590.2	5590.2	5590.2	5590.2	5590.2	5590.2	5590.2
2.5°	5605.4	5594.5	5577.2	5514.3	5507.8	5488.3	5379.9	5362.6	5379.9	5327.9	5332.3
5°	5594.5	5627.0	5497.0	5434.1	5317.1	5232.5	5135.0	5085.1	4996.3	4939.9	5002.8
7.5°	5642.2	5629.2	5466.6	5330.1	5154.5	4939.9	4768.7	4671.1	4515.1	4471.7	4504.2
10°	5624.9	5555.5	5364.8	5184.9	4853.2	4664.6	4387.2	4118.4	3971.0	3895.1	3884.3
12.5°	5601.0	5581.5	5262.9	4952.9	4603.9	4207.3	3817.1	3563.5	3322.9	3218.9	3234.0
15°	5629.2	5464.5	5072.1	4679.8	4215.9	3695.7	3275.2	2947.9	2781.0	2713.8	2713.8
17.5°	5616.2	5408.1	4981.1	4374.2	3786.8	3171.2	2709.5	2512.2	2442.9	2442.9	2462.4
20°	5622.7	5445.0	4796.9	4068.6	3279.6	2670.5	2334.5	2263.0	2293.3	2304.1	2315.0
22.5°	5659.6	5323.6	4616.9	3732.6	2809.2	2284.6	2119.9	2122.1	2176.3	2234.8	2223.9
25°	5705.1	5275.9	4398.0	3398.8	2449.4	2096.1	2044.0	2037.5	2078.7	2109.1	2113.4
27.5°	5666.1	5193.5	4174.8	2982.6	2154.6	1970.3	1959.5	1963.8	1976.8	2037.5	2018.0
30°	5793.9	5217.4	3895.1	2633.6	1992.0	1929.1	1916.1	1909.6	1929.1	1946.5	1931.3
32.5°	5952.2	5132.8	3687.1	2297.6	1911.8	1898.8	1872.8	1864.1	1875.0	1857.6	1866.3
35°	6021.5	5117.7	3416.1	2057.0	1848.9	1838.1	1822.9	1820.8	1822.9	1807.8	1794.8
37.5°	6060.6	5189.2	3106.1	1946.5	1809.9	1820.8	1786.1	1781.8	1742.7	1751.4	1757.9
40°	6127.8	5078.6	2854.7	1840.3	1786.1	1764.4	1734.1	1727.6	1701.6	1686.4	1701.6
42.5°	6030.2	5046.1	2607.6	1794.8	1751.4	1727.6	1705.9	1669.0	1660.4	1647.4	1638.7
45°	5952.2	4859.7	2386.5	1738.4	1710.2	1697.2	1656.0	1617.0	1584.5	1597.5	1578.0
47.5°	6010.7	4794.7	2167.6	1690.7	1653.9	1638.7	1597.5	1567.2	1534.6	1519.5	1515.1
50°	6244.8	4916.1	1983.3	1656.0	1606.2	1597.5	1543.3	1508.6	1478.3	1467.5	1471.8
52.5°	6804.0	5247.7	1857.6	1584.5	1560.7	1521.6	1491.3	1447.9	1428.4	1393.8	1415.4
55°	7512.8	5787.4	1825.1	1517.3	1504.3	1469.6	1428.4	1395.9	1359.1	1330.9	1324.4
56°	7740.4	6045.4	1799.1	1491.3	1469.6	1450.1	1395.9	1376.4	1317.9	1311.4	1307.1
57.5°	7924.7	6273.0	1803.4	1441.4	1419.8	1402.4	1369.9	1322.2	1283.2	1259.4	1270.2
60°	7508.5	5872.0	1721.1	1365.6	1361.2	1328.7	1283.2	1261.5	1213.8	1185.7	1179.2
62.5°	5581.5	3986.2	1395.9	1268.0	1265.9	1231.2	1179.2	1155.3	1146.7	1107.6	1107.6
65°	3214.5	2499.2	1207.3	1187.8	1170.5	1135.8	1083.8	1064.3	1042.6	1029.6	1018.8
67.5°	1372.1	1296.2	1096.8	1094.6	1075.1	1031.8	979.7	949.4	921.2	895.2	908.2
70°	994.9	1010.1	990.6	979.7	955.9	901.7	856.2	819.3	776.0	758.7	771.7
72.5°	789.0	821.5	849.7	851.9	823.7	760.8	711.0	661.1	613.4	589.6	600.4
75°	598.3	619.9	648.1	654.6	613.4	570.1	522.4	470.4	433.5	405.3	409.7
77.5°	431.3	427.0	453.0	448.7	429.2	398.8	355.5	307.8	266.6	240.6	242.8
80°	294.8	301.3	316.5	314.3	290.5	270.9	238.4	199.4	169.1	147.4	143.1
82.5°	205.9	216.8	229.8	218.9	199.4	179.9	156.1	127.9	104.0	86.7	82.4
85°	73.7	84.5	97.5	104.0	110.5	106.2	88.9	71.5	52.0	43.4	41.2
87.5°	15.2	17.3	19.5	19.5	19.5	17.3	15.2	15.2	13.0	6.5	6.5
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)