

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: P528936

Luminaire Tested: **GALN-SA4A-740-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-740-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15305 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

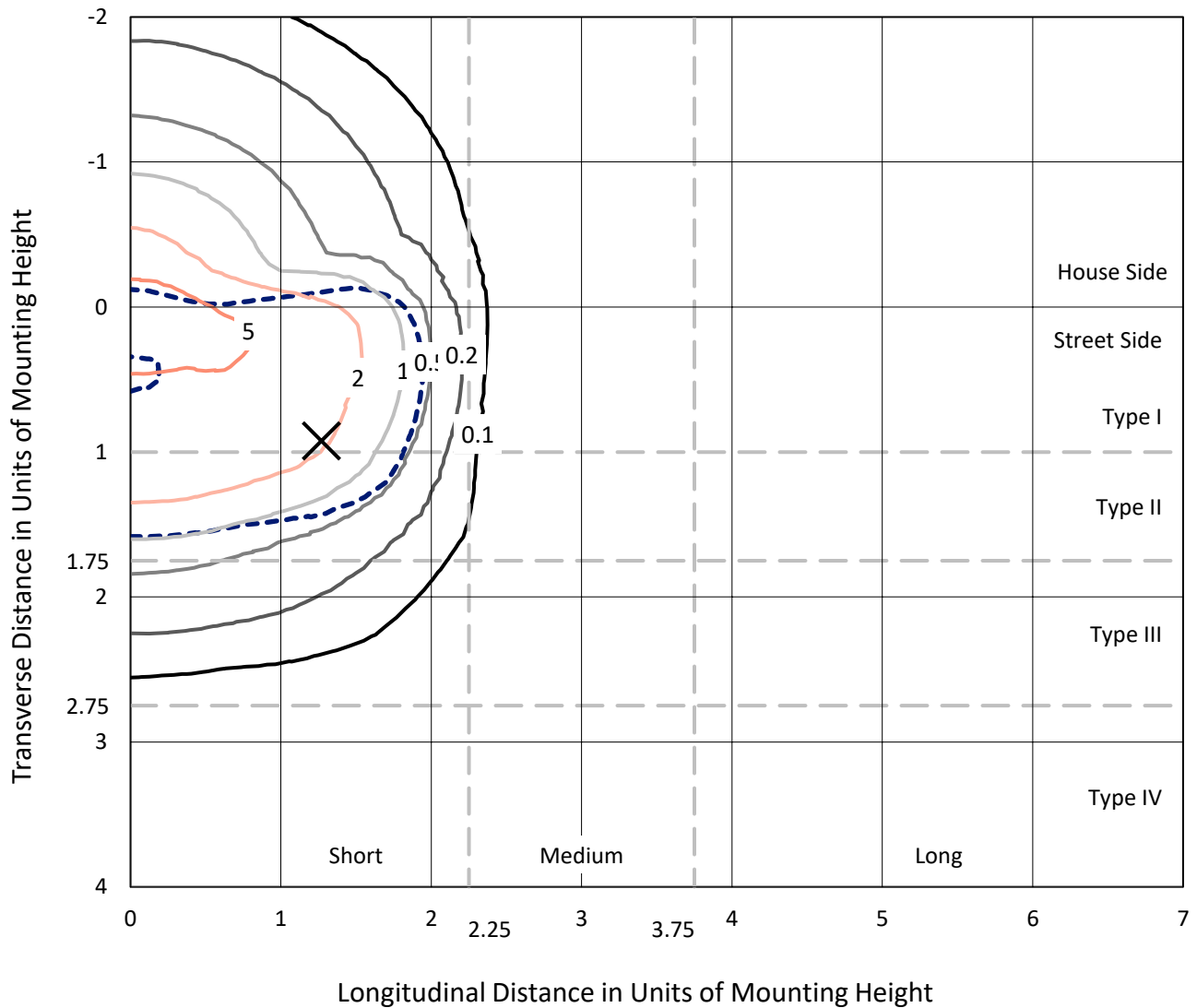
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

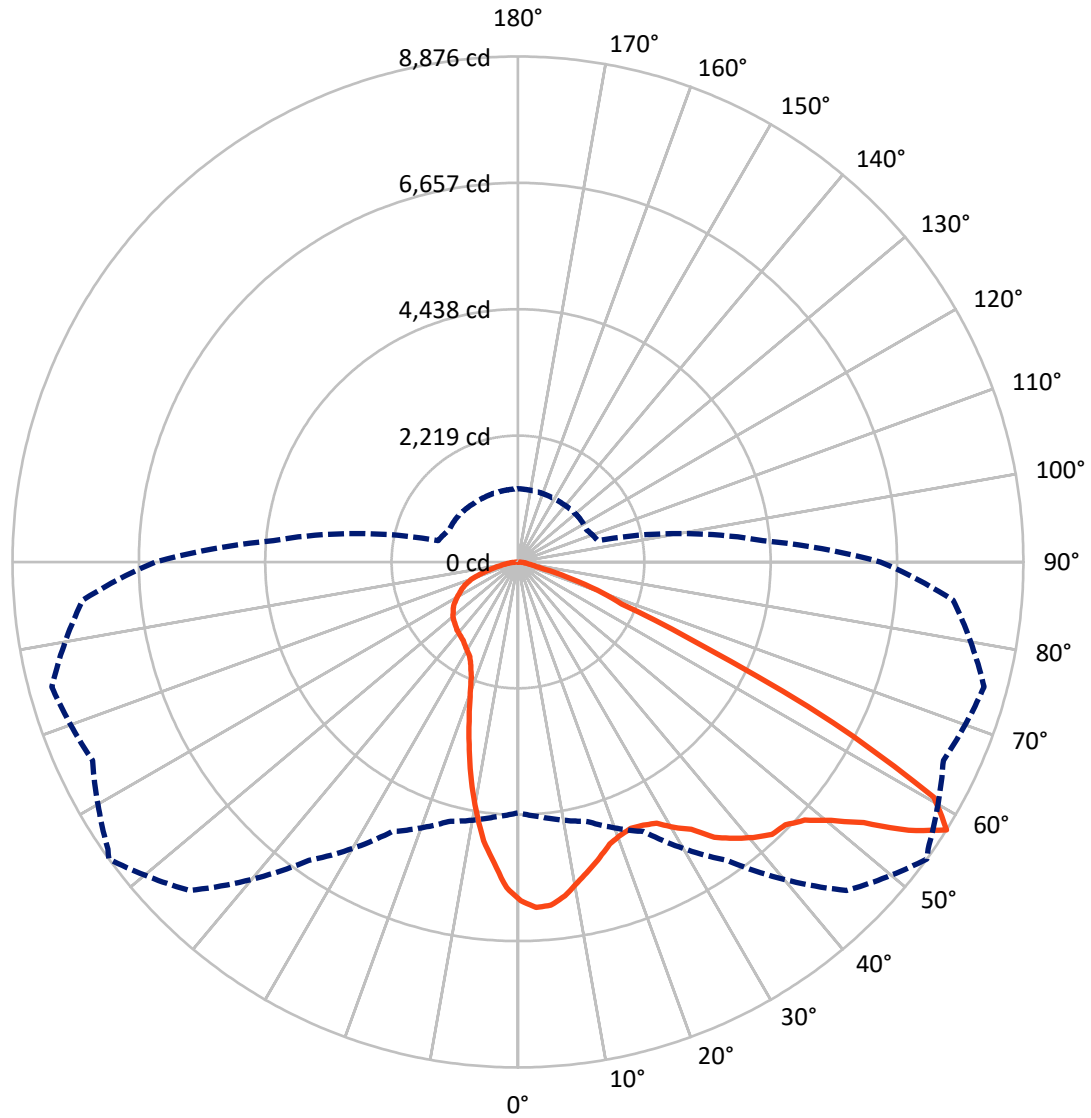
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4234.2	0.0	4234.2
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	11070.8	0.0	11070.8
	% Fixture	72.3	0.0	72.3
Total	Lumens	15305.0	0.0	15305.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.0	3.4
10°-20°	1187.9	7.8
20°-30°	1669.0	10.9
30°-40°	2333.2	15.2
40°-50°	3158.7	20.6
50°-60°	3847.5	25.1
60°-70°	2003.9	13.1
70°-80°	513.5	3.4
80°-90°	78.3	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°	15305.0	100.0
0°-180°	15305.0	100.0

Coefficient of Utilization



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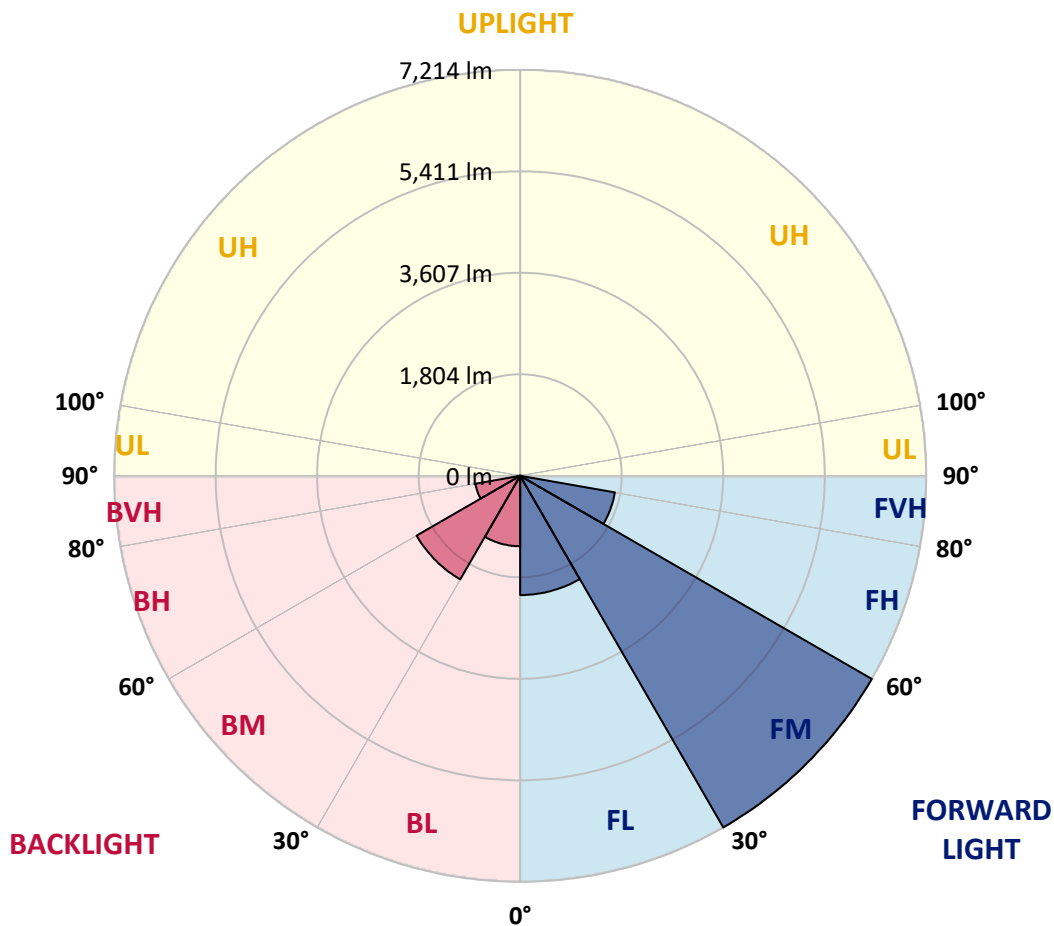
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2118.4	13.8			
FM (30°-60°)	7214.3	47.1			
FH (60°-80°)	1708.5	11.2			G1/1800
FVH (80°-90°)	29.6	0.2			G1/100
BL (0°-30°)	1251.4	8.2	B3/2500		
BM (30°-60°)	2125.1	13.9	B2/2500		
BH (60°-80°)	808.9	5.3	B2/1000		G2/1000
BVH (80°-90°)	48.7	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°	54°	55°	65°	75°	85°
0°	5948.9	5948.9	5948.9	5948.9	5948.9	5948.9	5948.9	5948.9	5948.9	5948.9	5948.9
2.5°	6118.1	6094.5	6098.4	6129.9	6090.5	6074.8	6074.8	5998.1	6004.0	5950.8	5937.1
5°	5976.4	5921.3	5958.7	6005.9	6013.8	6029.5	6055.1	6035.4	5980.4	5923.3	5830.8
7.5°	5606.6	5655.8	5669.5	5703.0	5773.8	5838.7	5919.4	5864.3	5862.3	5805.3	5750.2
10°	5282.0	5252.5	5327.2	5376.4	5494.5	5602.6	5726.6	5720.7	5750.2	5685.3	5590.8
12.5°	4959.4	4935.8	4971.2	5083.3	5248.5	5405.9	5553.5	5498.4	5655.8	5644.0	5441.3
15°	4617.1	4634.8	4685.9	4790.2	5006.6	5195.4	5382.3	5384.3	5524.0	5571.2	5299.7
17.5°	4377.1	4357.4	4422.3	4577.7	4770.5	4996.7	5209.2	5252.5	5466.9	5494.5	5256.4
20°	4198.1	4225.6	4310.2	4388.9	4611.2	4884.6	5124.6	5140.4	5455.1	5529.9	5187.6
22.5°	4154.8	4139.0	4166.6	4294.4	4477.4	4774.4	5079.4	5138.4	5453.1	5518.1	5057.7
25°	4109.5	4160.7	4158.7	4286.6	4420.3	4685.9	5116.7	5181.7	5557.4	5579.0	5075.4
27.5°	4211.8	4205.9	4261.0	4270.8	4436.1	4709.5	5195.4	5244.6	5730.5	5712.8	5089.2
30°	4314.1	4284.6	4318.1	4434.1	4510.8	4845.3	5411.8	5407.9	5954.8	5943.0	5132.5
32.5°	4440.0	4426.2	4447.9	4550.2	4680.0	5026.3	5594.8	5710.8	6183.0	6257.7	5282.0
35°	4463.6	4520.7	4571.8	4709.5	4894.4	5319.4	5939.0	6035.4	6446.6	6680.7	5567.2
37.5°	4613.1	4634.8	4754.8	4998.7	5167.9	5710.8	6157.4	6218.4	6686.6	6952.2	5868.2
40°	4772.5	4798.1	4979.0	5234.8	5466.9	5966.6	6362.0	6381.7	6763.3	7160.7	6064.9
42.5°	4988.9	5012.5	5191.5	5512.2	5823.0	6184.9	6543.0	6564.6	6757.4	7400.7	6377.7
45°	5213.1	5270.2	5480.7	5844.6	6124.0	6440.7	6584.3	6672.8	6812.5	7615.1	6631.5
47.5°	5527.9	5581.0	5754.1	6110.2	6436.7	6664.9	6775.1	6861.7	6944.3	7802.0	6794.8
50°	5862.3	5872.2	6082.6	6405.3	6645.3	6918.7	7131.2	7160.7	7117.4	8018.4	7072.2
52.5°	6108.2	6139.7	6303.0	6617.7	6975.8	7312.2	7603.3	7634.8	7550.2	8099.1	7166.6
55°	5701.0	5683.3	5948.9	6367.9	7198.1	7898.4	8321.3	8345.0	7865.0	8348.9	7475.4
57.5°	4406.6	4491.2	4717.4	5223.0	6395.4	8158.1	8876.1	8791.5	8242.7	8474.8	7672.2
60°	3202.6	3183.0	3334.4	3672.8	4819.7	7030.9	8392.2	8478.7	7933.8	7638.7	6326.6
62.5°	2608.5	2581.0	2592.8	2604.6	3110.2	4666.2	6212.5	6210.5	6110.2	5490.5	4266.9
65°	2085.3	2150.2	2156.1	2244.6	2309.5	2787.6	3600.0	3792.8	3303.0	2708.9	1965.3
67.5°	1571.8	1548.2	1626.9	1941.6	2063.6	2012.5	1965.3	1986.9	1412.5	1019.0	960.0
70°	926.6	916.7	1011.2	1353.4	1699.7	1599.4	1481.3	1483.3	969.8	712.1	792.8
72.5°	507.5	505.6	525.2	686.6	965.9	1003.3	889.2	916.7	578.4	576.4	619.7
75°	283.3	277.4	271.5	303.0	348.2	367.9	375.7	379.7	397.4	444.6	462.3
77.5°	104.3	100.3	100.3	116.1	147.5	184.9	234.1	238.0	281.3	322.6	340.3
80°	35.4	39.3	53.1	72.8	98.4	131.8	159.3	163.3	198.7	226.2	232.1
82.5°	21.6	23.6	35.4	51.1	70.8	92.5	118.0	120.0	147.5	165.2	173.1
85°	9.8	11.8	19.7	31.5	45.2	61.0	63.0	63.0	61.0	63.0	59.0
87.5°	0.0	0.0	3.9	3.9	3.9	5.9	7.9	5.9	9.8	11.8	11.8
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°	5948.9	5948.9	5948.9	5948.9	5948.9	5948.9	5948.9	5948.9	5948.9	5948.9	5948.9
2.5°	5895.8	5874.1	5807.2	5748.2	5730.5	5651.8	5535.8	5549.5	5464.9	5504.3	5463.0
5°	5815.1	5742.3	5571.2	5498.4	5307.6	5221.0	5162.0	5014.4	4945.6	4931.8	4872.8
7.5°	5608.5	5563.3	5348.9	5152.2	4949.5	4776.4	4554.1	4402.6	4294.4	4264.9	4178.4
10°	5445.3	5344.9	5047.9	4748.9	4459.7	4158.7	3869.5	3643.3	3533.1	3405.3	3362.0
12.5°	5284.0	5132.5	4731.2	4347.6	3973.8	3594.1	3243.9	2968.5	2728.5	2671.5	2651.8
15°	5183.6	4920.0	4447.9	3985.6	3454.4	2958.7	2608.5	2427.6	2280.0	2219.0	2262.3
17.5°	5051.8	4744.9	4176.4	3560.7	2976.4	2520.0	2226.9	2114.8	2061.6	2067.5	2049.8
20°	4886.6	4579.7	3820.3	3175.1	2549.5	2185.6	2018.4	1977.1	1984.9	1998.7	1992.8
22.5°	4768.5	4379.0	3562.6	2781.7	2203.3	2000.7	1931.8	1902.3	1927.9	1939.7	1929.8
25°	4678.1	4207.9	3249.9	2433.5	2002.6	1896.4	1864.9	1863.0	1902.3	1918.0	1908.2
27.5°	4595.4	4048.5	2939.0	2167.9	1868.9	1815.7	1805.9	1829.5	1855.1	1870.8	1884.6
30°	4546.2	3926.6	2647.9	1945.6	1802.0	1776.4	1758.7	1780.3	1794.1	1809.8	1802.0
32.5°	4593.5	3840.0	2366.6	1819.7	1746.9	1721.3	1744.9	1731.2	1754.8	1768.5	1746.9
35°	4741.0	3763.3	2165.9	1752.8	1683.9	1693.8	1697.7	1691.8	1701.6	1689.8	1715.4
37.5°	4886.6	3735.8	1981.0	1695.7	1654.4	1654.4	1650.5	1638.7	1658.4	1654.4	1666.2
40°	5071.5	3753.5	1823.6	1634.8	1626.9	1623.0	1607.2	1605.3	1597.4	1599.4	1603.3
42.5°	5232.8	3792.8	1733.1	1595.4	1601.3	1609.2	1579.7	1556.1	1565.9	1546.2	1546.2
45°	5404.0	3828.2	1652.5	1567.9	1562.0	1560.0	1536.4	1522.6	1514.8	1516.7	1534.4
47.5°	5673.5	3879.4	1591.5	1530.5	1534.4	1504.9	1499.0	1481.3	1489.2	1501.0	1503.0
50°	5864.3	3987.6	1544.3	1487.2	1501.0	1481.3	1445.9	1438.0	1438.0	1457.7	1453.8
52.5°	5998.1	4139.0	1499.0	1440.0	1445.9	1430.2	1418.4	1400.7	1388.9	1416.4	1430.2
55°	6407.2	4390.8	1487.2	1400.7	1398.7	1383.0	1361.3	1343.6	1337.7	1341.6	1369.2
57.5°	6367.9	4312.1	1449.8	1331.8	1327.9	1306.2	1284.6	1278.7	1276.7	1280.7	1288.5
60°	5169.9	3184.9	1294.4	1253.1	1247.2	1243.3	1221.6	1198.0	1186.2	1198.0	1188.2
62.5°	3421.0	2132.5	1141.0	1158.7	1162.6	1152.8	1117.4	1093.8	1097.7	1111.5	1089.8
65°	1680.0	1253.1	1034.8	1082.0	1085.9	1058.4	1024.9	997.4	983.6	995.4	985.6
67.5°	960.0	958.0	948.2	997.4	995.4	967.9	914.8	891.2	867.5	871.5	865.6
70°	814.4	830.2	849.8	879.3	877.4	845.9	783.0	765.2	731.8	727.9	718.0
72.5°	641.3	668.9	712.1	733.8	716.1	676.7	635.4	605.9	576.4	558.7	564.6
75°	476.1	515.4	539.0	552.8	525.2	503.6	470.2	434.8	399.3	383.6	377.7
77.5°	346.2	358.0	379.7	389.5	371.8	350.2	330.5	295.1	261.6	240.0	234.1
80°	242.0	249.8	265.6	265.6	265.6	255.7	230.2	194.8	173.1	153.4	149.5
82.5°	169.2	177.0	192.8	184.9	183.0	171.1	155.4	127.9	104.3	90.5	86.6
85°	59.0	64.9	78.7	94.4	100.3	98.4	88.5	70.8	55.1	45.2	41.3
87.5°	13.8	13.8	15.7	13.8	13.8	15.7	13.8	13.8	13.8	9.8	7.9
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)