

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: P528986

Luminaire Tested: **GALN-SA4A-760-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528986
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-SA4A-760-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 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: 15334 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

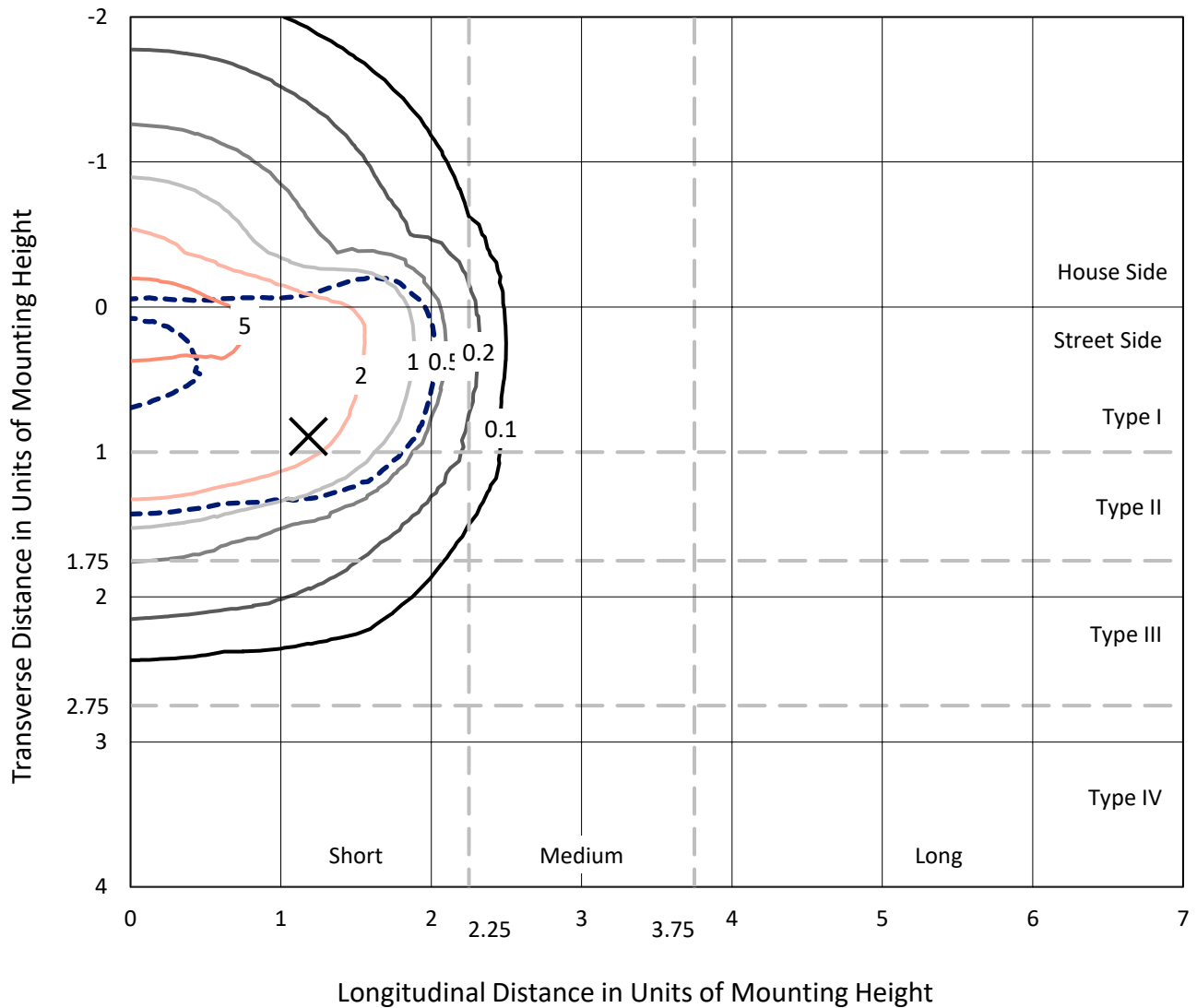
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

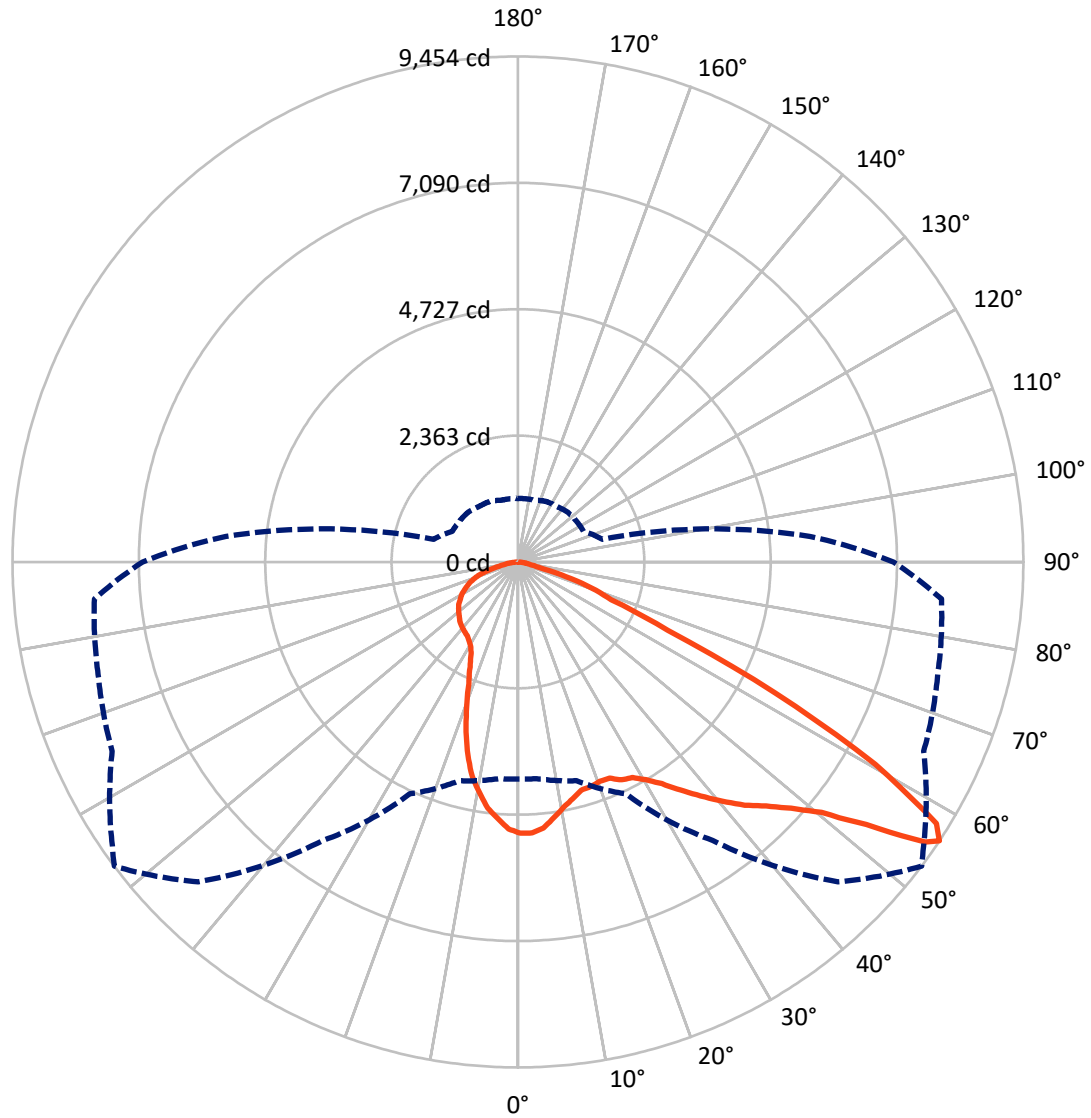
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	4474.8	0.0	4474.8
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	10859.2	0.0	10859.2
	% Fixture	70.8	0.0	70.8
Total	Lumens	15334.0	0.0	15334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.1	2.9
10°-20°	1121.7	7.3
20°-30°	1654.0	10.8
30°-40°	2363.3	15.4
40°-50°	3252.7	21.2
50°-60°	3843.9	25.1
60°-70°	2048.5	13.4
70°-80°	519.7	3.4
80°-90°	81.0	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°	15334.0	100.0
0°-180°	15334.0	100.0

Coefficient of Utilization



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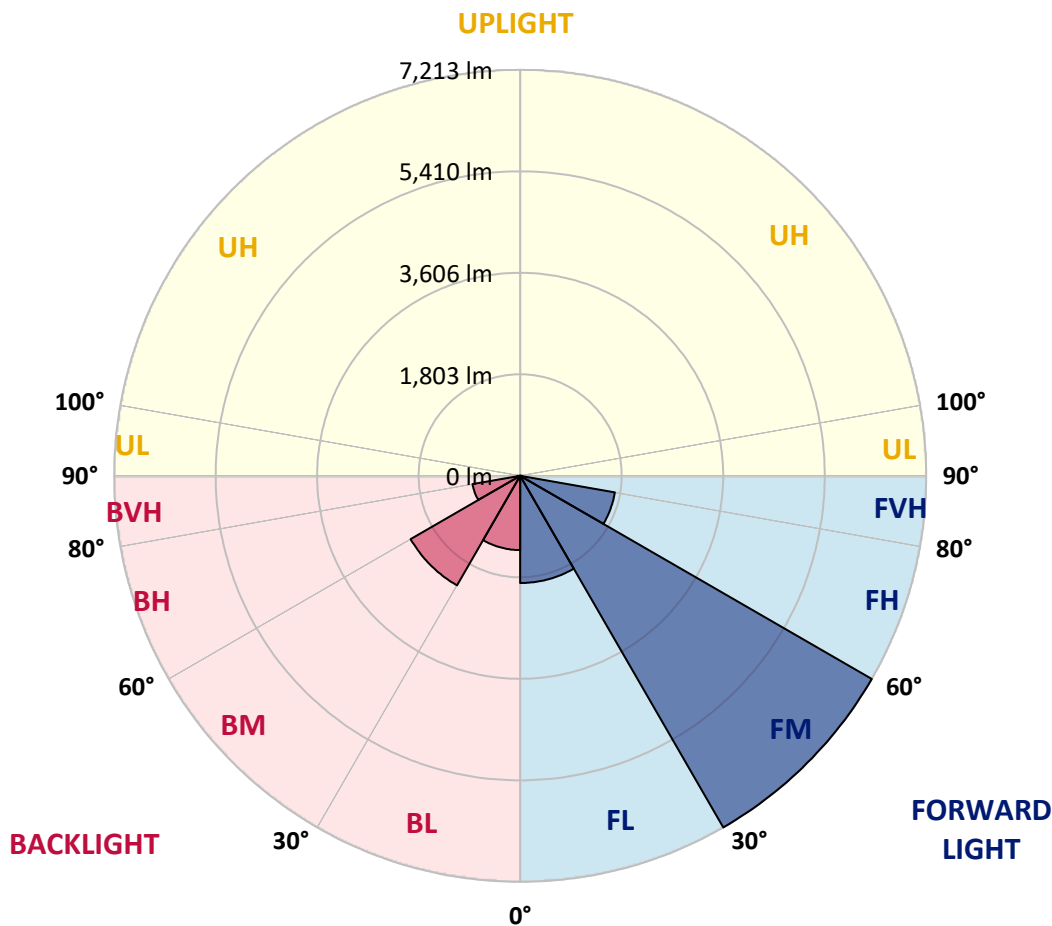
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1905.0	12.4			
FM (30°-60°)	7212.8	47.0			
FH (60°-80°)	1708.8	11.1			G1/1800
FVH (80°-90°)	32.6	0.2			G1/100
BL (0°-30°)	1319.8	8.6	B3/2500		
BM (30°-60°)	2247.1	14.7	B2/2500		
BH (60°-80°)	859.4	5.6	B2/1000		G2/1000
BVH (80°-90°)	48.5	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°	5073.1	5073.1	5073.1	5073.1	5073.1	5073.1	5073.1	5073.1	5073.1	5073.1	5073.1
2.5°	5010.1	4966.9	4992.4	4982.6	5063.3	5086.9	5075.1	5084.9	5130.1	5108.5	5063.3
5°	4681.6	4742.6	4754.4	4783.9	4831.1	4923.6	4996.4	5016.0	5037.7	5138.0	5128.2
7.5°	4382.6	4424.0	4402.3	4488.9	4591.2	4740.7	4829.2	4844.9	5043.6	5098.7	5140.0
10°	4193.8	4152.5	4250.9	4274.5	4390.5	4561.7	4667.9	4732.8	4913.8	5132.1	5157.7
12.5°	4018.7	4005.0	4064.0	4130.9	4260.7	4437.7	4545.9	4571.5	4850.8	5081.0	5201.0
15°	3888.9	3873.2	3932.2	3981.4	4132.8	4290.2	4427.9	4500.7	4782.0	5051.5	5163.6
17.5°	3786.6	3784.7	3818.1	3906.6	4062.0	4193.8	4416.1	4420.0	4746.6	5096.7	5195.1
20°	3780.7	3778.8	3784.7	3883.0	4024.6	4185.9	4378.7	4414.1	4746.6	5065.2	5197.0
22.5°	3829.9	3798.4	3833.8	3896.8	3999.1	4199.7	4392.5	4471.2	4860.6	5220.6	5285.5
25°	3908.6	3916.5	3936.1	3957.8	4016.8	4231.2	4514.4	4579.4	4994.4	5354.4	5407.5
27.5°	4052.2	4048.2	4056.1	4067.9	4119.1	4260.7	4563.6	4730.8	5273.7	5592.4	5539.3
30°	4262.7	4248.9	4280.4	4321.7	4274.5	4355.1	4726.9	4852.8	5533.4	5832.4	5686.8
32.5°	4453.5	4504.6	4563.6	4581.3	4524.3	4540.0	4943.3	5071.1	5749.8	6127.4	5867.8
35°	4691.5	4732.8	4811.5	4866.5	4856.7	4809.5	5238.3	5407.5	6062.5	6343.8	6058.6
37.5°	4923.6	4972.8	5102.6	5265.9	5175.4	5153.7	5553.1	5692.7	6158.9	6459.9	6198.3
40°	5297.3	5295.4	5519.6	5604.2	5684.9	5647.5	5879.6	5926.8	6210.1	6434.3	6202.2
42.5°	5736.0	5708.5	5936.6	6068.4	6172.7	6176.6	6219.9	6204.2	6233.7	6304.5	6160.9
45°	6153.0	6212.0	6442.2	6678.2	6782.5	6794.3	6507.1	6477.6	6275.0	6267.1	6082.2
47.5°	6662.5	6676.3	6865.1	7175.9	7417.8	7335.2	6878.9	6814.0	6455.9	6516.9	6214.0
50°	6692.0	6794.3	6963.5	7329.3	8072.9	8051.2	7360.8	7238.8	6747.1	6871.0	6581.8
52.5°	6074.3	6050.7	6251.4	6849.4	8023.7	8763.3	8159.4	7868.3	7372.6	7278.2	7177.9
55°	4628.5	4683.6	4860.6	5464.5	6967.4	8773.2	9247.2	9009.2	8041.4	7880.1	7764.1
56°	4060.0	4067.9	4235.1	4785.9	6357.6	8460.4	9453.8	9261.0	8373.8	8128.0	7950.9
57.5°	3365.7	3320.4	3407.0	3707.9	5366.2	7799.5	9227.6	9416.4	8763.3	8395.5	8149.6
60°	2649.7	2639.8	2604.4	2659.5	3391.2	5875.7	7681.4	8106.3	8724.0	8143.7	7805.4
62.5°	2163.8	2114.6	2185.4	2264.1	2356.6	3645.0	5397.7	5647.5	6926.1	6501.2	5863.9
65°	1677.9	1654.3	1742.8	1998.6	2053.6	2315.2	3074.5	3267.3	4089.6	4016.8	3536.8
67.5°	1154.7	1158.6	1235.3	1624.8	1904.1	1880.5	1882.5	1982.8	2134.3	1585.5	1380.9
70°	731.8	729.8	771.1	1046.5	1532.4	1548.1	1469.4	1439.9	1365.2	826.2	875.3
72.5°	470.1	456.4	478.0	578.3	792.7	916.7	944.2	961.9	790.8	649.1	704.2
75°	265.6	251.8	243.9	269.5	312.8	361.9	397.3	409.2	458.3	491.8	521.3
77.5°	80.7	72.8	88.5	118.0	155.4	208.5	253.8	261.6	308.8	348.2	377.7
80°	35.4	39.3	55.1	78.7	110.2	147.5	179.0	190.8	222.3	251.8	259.7
82.5°	21.6	23.6	37.4	53.1	76.7	104.3	127.9	131.8	163.3	186.9	192.8
85°	7.9	9.8	19.7	31.5	49.2	66.9	66.9	72.8	66.9	66.9	72.8
87.5°	0.0	0.0	2.0	3.9	3.9	5.9	7.9	7.9	9.8	11.8	13.8
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°	5073.1	5073.1	5073.1	5073.1	5073.1	5073.1	5073.1	5073.1	5073.1	5073.1	5073.1
2.5°	5086.9	5077.0	5061.3	5004.2	4998.3	4980.6	4882.3	4866.5	4882.3	4835.1	4839.0
5°	5077.0	5106.5	4988.5	4931.5	4825.2	4748.5	4660.0	4614.8	4534.1	4483.0	4540.0
7.5°	5120.3	5108.5	4961.0	4837.0	4677.7	4483.0	4327.6	4239.1	4097.4	4058.1	4087.6
10°	5104.6	5041.6	4868.5	4705.2	4404.3	4233.1	3981.4	3737.4	3603.7	3534.8	3525.0
12.5°	5082.9	5065.2	4776.1	4494.8	4178.1	3818.1	3464.0	3233.9	3015.5	2921.1	2934.9
15°	5108.5	4959.0	4603.0	4246.9	3826.0	3353.9	2972.3	2675.2	2523.8	2462.8	2462.8
17.5°	5096.7	4907.9	4520.3	3969.6	3436.5	2877.8	2458.8	2279.8	2216.9	2216.9	2234.6
20°	5102.6	4941.3	4353.1	3692.2	2976.2	2423.4	2118.5	2053.6	2081.2	2091.0	2100.8
22.5°	5136.0	4831.1	4189.9	3387.3	2549.3	2073.3	1923.8	1925.8	1974.9	2028.1	2018.2
25°	5177.3	4787.9	3991.2	3084.4	2222.8	1902.2	1855.0	1849.1	1886.4	1914.0	1917.9
27.5°	5141.9	4713.1	3788.6	2706.7	1955.3	1788.1	1778.2	1782.2	1794.0	1849.1	1831.3
30°	5258.0	4734.8	3534.8	2390.0	1807.7	1750.7	1738.9	1733.0	1750.7	1766.4	1752.7
32.5°	5401.6	4658.0	3346.0	2085.1	1735.0	1723.2	1699.6	1691.7	1701.5	1685.8	1693.7
35°	5464.5	4644.3	3100.1	1866.8	1677.9	1668.1	1654.3	1652.3	1654.3	1640.5	1628.7
37.5°	5499.9	4709.2	2818.8	1766.4	1642.5	1652.3	1620.9	1616.9	1581.5	1589.4	1595.3
40°	5560.9	4608.9	2590.6	1670.0	1620.9	1601.2	1573.7	1567.8	1544.2	1530.4	1544.2
42.5°	5472.4	4579.4	2366.4	1628.7	1589.4	1567.8	1548.1	1514.6	1506.8	1495.0	1487.1
45°	5401.6	4410.2	2165.8	1577.6	1552.0	1540.2	1502.8	1467.4	1437.9	1449.7	1432.0
47.5°	5454.7	4351.2	1967.1	1534.3	1500.9	1487.1	1449.7	1422.2	1392.7	1378.9	1375.0
50°	5667.1	4461.3	1799.9	1502.8	1457.6	1449.7	1400.6	1369.1	1341.5	1331.7	1335.6
52.5°	6174.7	4762.3	1685.8	1437.9	1416.3	1380.9	1353.3	1314.0	1296.3	1264.8	1284.5
55°	6817.9	5252.1	1656.3	1377.0	1365.2	1333.7	1296.3	1266.8	1233.4	1207.8	1201.9
56°	7024.4	5486.2	1632.7	1353.3	1333.7	1316.0	1266.8	1249.1	1196.0	1190.1	1186.1
57.5°	7191.6	5692.7	1636.6	1308.1	1288.4	1272.7	1243.2	1199.9	1164.5	1142.9	1152.7
60°	6814.0	5328.8	1561.9	1239.3	1235.3	1205.8	1164.5	1144.8	1101.6	1076.0	1070.1
62.5°	5065.2	3617.5	1266.8	1150.7	1148.8	1117.3	1070.1	1048.5	1040.6	1005.2	1005.2
65°	2917.2	2268.0	1095.7	1078.0	1062.2	1030.7	983.5	965.8	946.2	934.4	924.5
67.5°	1245.2	1176.3	995.3	993.4	975.7	936.3	889.1	861.6	836.0	812.4	824.2
70°	902.9	916.7	899.0	889.1	867.5	818.3	777.0	743.6	704.2	688.5	700.3
72.5°	716.0	745.5	771.1	773.1	747.5	690.4	645.2	600.0	556.7	535.0	544.9
75°	542.9	562.6	588.2	594.1	556.7	517.3	474.1	426.9	393.4	367.8	371.8
77.5°	391.4	387.5	411.1	407.2	389.5	361.9	322.6	279.3	242.0	218.3	220.3
80°	267.5	273.4	287.2	285.2	263.6	245.9	216.4	181.0	153.4	133.8	129.8
82.5°	186.9	196.7	208.5	198.7	181.0	163.3	141.6	116.1	94.4	78.7	74.7
85°	66.9	76.7	88.5	94.4	100.3	96.4	80.7	64.9	47.2	39.3	37.4
87.5°	13.8	15.7	17.7	17.7	17.7	15.7	13.8	13.8	11.8	5.9	5.9
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)