

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: P532795

Luminaire Tested: **GALN-SA8A-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532795
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-SA8A-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA 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: 17846 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

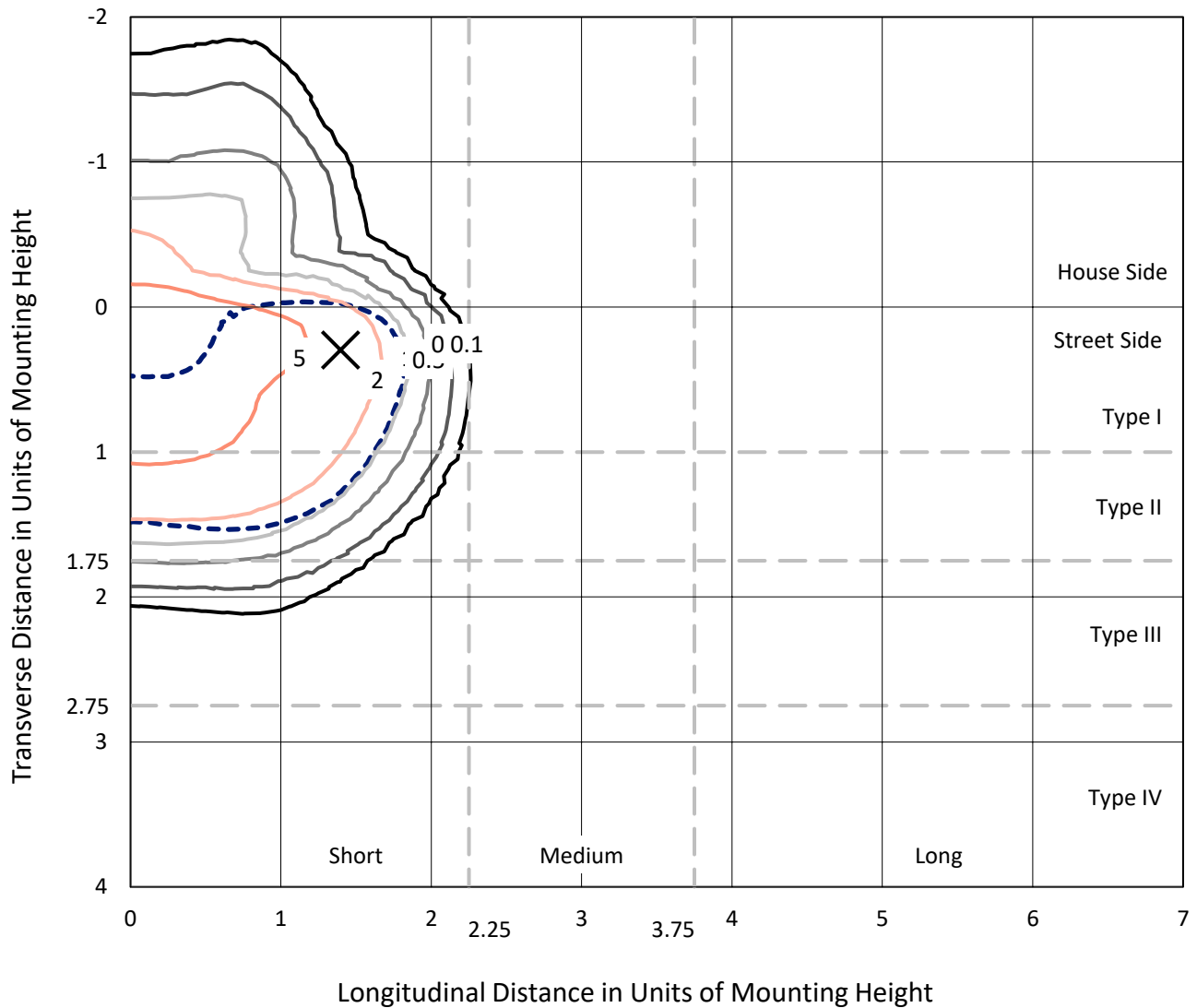
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

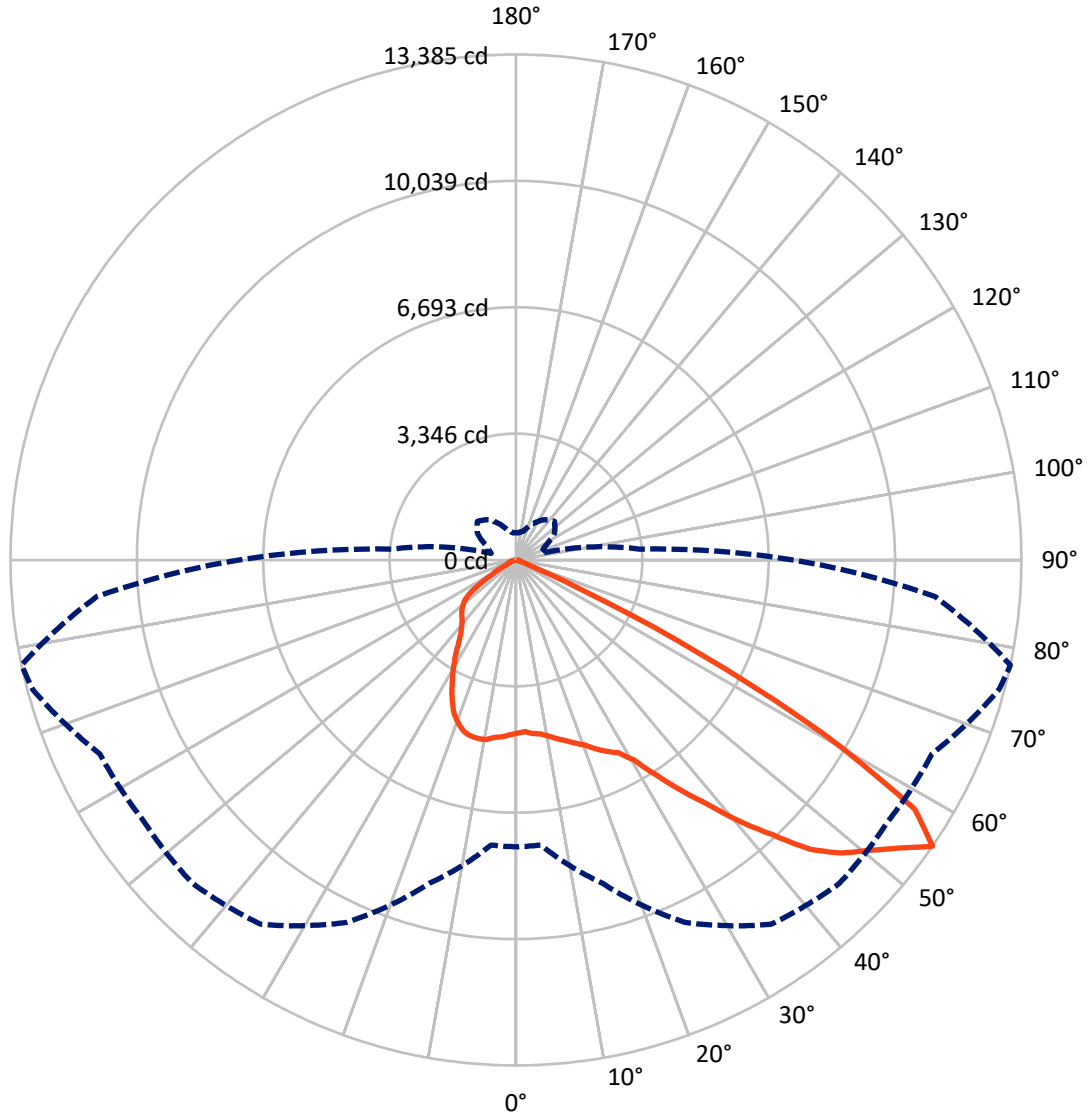
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	3314.7	0.0	3314.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	14531.3	0.0	14531.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	17846.0	0.0	17846.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.1	2.3
10°-20°	1082.7	6.1
20°-30°	1897.9	10.6
30°-40°	3129.3	17.5
40°-50°	4553.6	25.5
50°-60°	5159.7	28.9
60°-70°	1475.3	8.3
70°-80°	114.5	0.6
80°-90°	23.8	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°	17846.0	100.0
0°-180°	17846.0	100.0

Coefficient of Utilization



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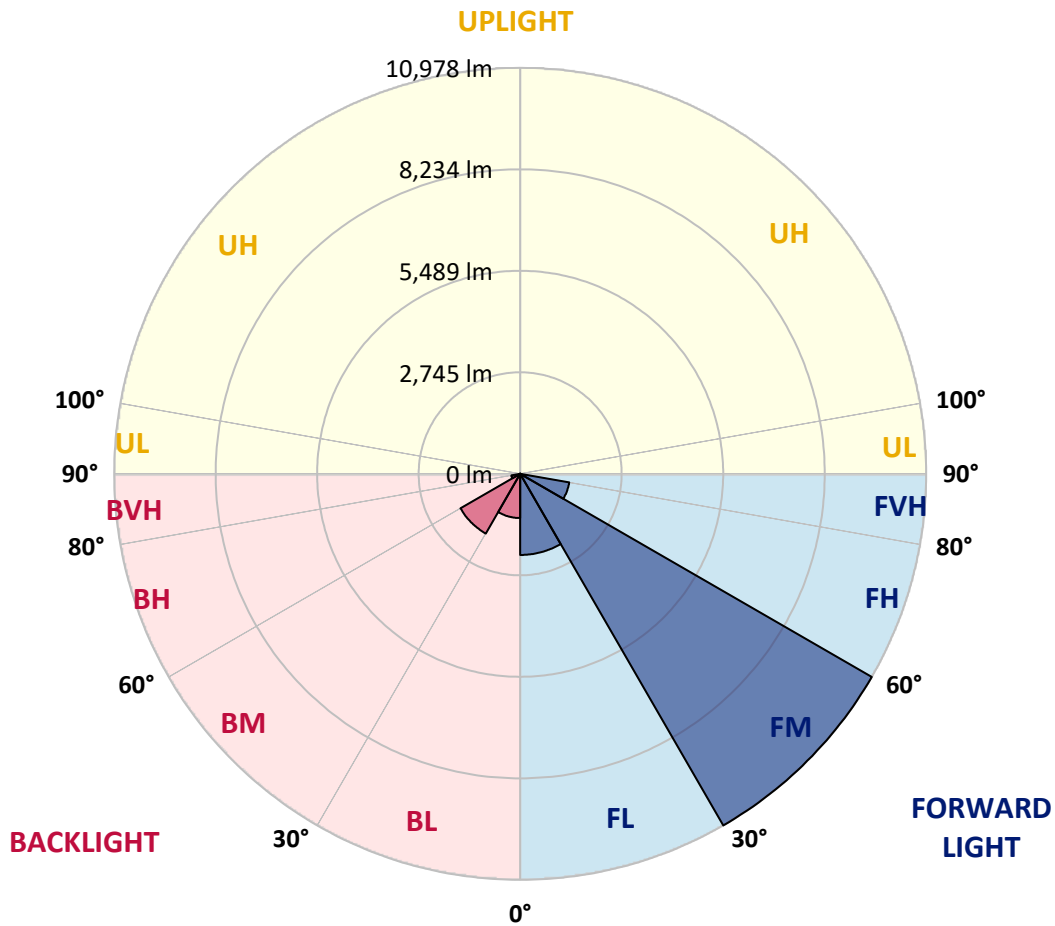
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2193.8	12.3			
FM (30°-60°)	10978.1	61.5			
FH (60°-80°)	1347.8	7.6			G1/1800
FVH (80°-90°)	11.6	0.1			G1/100
BL (0°-30°)	1196.0	6.7	B3/2500		
BM (30°-60°)	1864.6	10.4	B2/2500		
BH (60°-80°)	242.0	1.4	B1/500		G1/500
BVH (80°-90°)	12.2	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°	4588.2	4588.2	4588.2	4588.2	4588.2	4588.2	4588.2	4588.2	4588.2	4588.2	4588.2
2.5°	4313.8	4355.3	4361.7	4412.7	4409.5	4495.7	4521.2	4524.4	4581.8	4553.1	4626.5
5°	4192.6	4170.2	4160.7	4250.0	4275.5	4352.1	4415.9	4454.2	4572.3	4613.7	4690.3
7.5°	4084.1	4084.1	4090.5	4170.2	4160.7	4259.6	4326.6	4444.6	4616.9	4652.0	4744.6
10°	3978.8	3940.5	3988.4	4071.3	4141.5	4186.2	4326.6	4438.3	4639.3	4741.4	4869.0
12.5°	3924.6	3943.7	3950.1	4010.7	4087.3	4221.3	4297.9	4482.9	4798.8	4859.4	4996.6
15°	4266.0	4227.7	4135.1	4080.9	4144.7	4208.5	4400.0	4588.2	4881.8	4967.9	5121.1
17.5°	4661.6	4629.7	4553.1	4406.3	4262.8	4380.8	4530.8	4703.1	4971.1	5098.7	5325.3
20°	5178.5	5127.4	5050.9	4763.7	4639.3	4511.6	4671.2	4875.4	5117.9	5232.7	5465.7
22.5°	5794.3	5794.3	5622.0	5274.2	5015.8	4894.5	4961.5	5079.6	5280.6	5436.9	5666.7
25°	6435.6	6416.5	6260.1	5899.6	5462.5	5318.9	5395.5	5478.4	5532.7	5618.8	5772.0
27.5°	7169.5	7057.8	6860.0	6461.2	6075.1	5797.5	5880.4	5807.1	5740.1	5784.7	6004.9
30°	7667.2	7737.4	7485.4	7102.5	6738.7	6429.2	6445.2	6381.4	6075.1	6138.9	6269.7
32.5°	8184.1	8228.8	8088.4	7877.8	7514.1	7153.5	7022.7	6968.5	6738.7	6767.5	6639.8
35°	8614.9	8701.0	8576.6	8484.1	8378.8	8088.4	7727.9	7903.3	7533.2	7463.0	7131.2
37.5°	9010.5	8985.0	9131.8	9036.0	9013.7	8809.5	8413.9	8449.0	8200.1	8184.1	7801.2
40°	9364.7	9371.1	9572.1	9616.7	9527.4	9163.7	8589.3	8866.9	9068.0	9087.1	8595.7
42.5°	9658.2	9744.4	9916.7	10277.2	10143.2	9537.0	8771.2	9074.3	9821.0	9939.0	9348.7
45°	9913.5	10089.0	10302.7	10625.0	10548.4	10066.6	9224.3	9501.9	10625.0	10934.5	10057.1
47.5°	9929.4	10159.2	10392.1	10870.7	10966.4	10350.6	9693.3	10178.3	11263.1	11598.2	10574.0
50°	9865.6	9986.9	10452.7	10972.8	11189.8	10813.3	10350.6	10746.3	11882.1	12092.7	10835.6
52.5°	9109.4	9202.0	10136.8	11068.5	11591.8	11336.5	11221.7	11537.5	12513.9	12670.2	11081.3
55°	7593.9	7577.9	8863.7	10586.7	11776.8	12111.9	12041.7	12153.4	13244.6	13385.0	11141.9
57.5°	5194.4	5484.8	6595.2	8815.9	10644.2	11930.0	12003.4	11818.3	12392.7	12446.9	9712.5
60°	2801.4	2922.7	3816.1	5883.6	8104.4	9722.0	9913.5	9578.5	9533.8	9380.6	6933.4
62.5°	1113.6	1174.2	1681.5	2913.1	4415.9	5909.2	6320.8	6183.6	5890.0	5488.0	3589.5
65°	529.7	567.9	836.0	1362.4	1959.1	2463.2	2874.8	3002.4	2214.3	1994.2	1183.7
67.5°	360.5	389.3	609.4	778.5	698.8	730.7	950.8	883.8	520.1	443.5	328.6
70°	274.4	293.5	488.2	529.7	312.7	220.2	245.7	229.7	213.8	217.0	213.8
72.5°	194.6	210.6	357.4	312.7	137.2	102.1	130.8	156.3	156.3	156.3	153.2
75°	118.1	134.0	207.4	121.2	54.2	54.2	83.0	105.3	111.7	114.9	108.5
77.5°	60.6	76.6	70.2	35.1	35.1	41.5	60.6	73.4	79.8	79.8	76.6
80°	12.8	12.8	12.8	19.1	35.1	44.7	60.6	67.0	76.6	76.6	70.2
82.5°	0.0	3.2	9.6	19.1	31.9	41.5	57.4	67.0	76.6	79.8	73.4
85°	0.0	3.2	6.4	12.8	22.3	25.5	22.3	19.1	19.1	19.1	19.1
87.5°	0.0	0.0	3.2	3.2	3.2	6.4	6.4	6.4	6.4	6.4	6.4
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°	4588.2	4588.2	4588.2	4588.2	4588.2	4588.2	4588.2	4588.2	4588.2	4588.2	4588.2
2.5°	4632.9	4642.5	4626.5	4623.3	4610.6	4648.8	4556.3	4534.0	4591.4	4537.2	4549.9
5°	4693.5	4715.8	4687.1	4639.3	4569.1	4460.6	4368.1	4246.8	4189.4	4147.9	4141.5
7.5°	4738.2	4754.1	4725.4	4572.3	4361.7	4087.3	3883.1	3733.1	3615.1	3580.0	3522.5
10°	4920.0	4923.2	4779.7	4441.4	4029.8	3669.3	3356.6	3126.9	3008.8	2935.4	2903.5
12.5°	5041.3	5034.9	4744.6	4183.0	3634.2	3155.6	2798.2	2520.6	2412.2	2377.1	2354.7
15°	5194.4	5159.4	4661.6	3918.2	3123.7	2606.8	2284.5	2093.1	2083.5	2061.2	2083.5
17.5°	5315.7	5216.8	4540.4	3436.4	2635.5	2147.3	1936.8	1949.5	1975.0	1997.4	2000.6
20°	5513.5	5309.3	4262.8	3015.2	2182.4	1841.0	1837.8	1895.3	1959.1	1984.6	2010.1
22.5°	5663.5	5347.6	3966.0	2565.3	1812.3	1716.6	1770.8	1857.0	1904.8	1930.4	1968.7
25°	5717.7	5242.3	3570.4	2115.4	1633.6	1659.2	1742.1	1799.6	1860.2	1888.9	1872.9
27.5°	5772.0	5188.1	3098.2	1742.1	1537.9	1620.9	1691.1	1748.5	1767.6	1805.9	1831.5
30°	5902.8	4999.8	2673.8	1506.0	1490.1	1595.3	1646.4	1665.5	1716.6	1738.9	1738.9
32.5°	6008.1	4926.4	2223.9	1394.3	1483.7	1608.1	1614.5	1614.5	1620.9	1604.9	1598.5
35°	6225.0	4674.4	1821.9	1327.3	1480.5	1611.3	1627.3	1573.0	1426.2	1368.8	1352.9
37.5°	6493.1	4511.6	1525.2	1311.4	1502.8	1649.6	1675.1	1470.9	1279.5	1186.9	1171.0
40°	6818.5	4396.8	1330.5	1305.0	1553.9	1738.9	1662.4	1391.1	1142.3	1008.3	1001.9
42.5°	7198.2	4291.5	1199.7	1301.8	1617.7	1831.5	1649.6	1324.1	1001.9	912.5	925.3
45°	7501.3	4234.1	1110.4	1279.5	1640.0	1885.7	1659.2	1206.1	944.4	887.0	893.4
47.5°	7737.4	4112.8	1037.0	1241.2	1636.8	1904.8	1573.0	1158.2	915.7	931.7	947.6
50°	7743.8	3950.1	944.4	1158.2	1589.0	1869.7	1474.1	1113.6	909.3	976.4	1008.3
52.5°	7657.7	3720.3	845.5	1040.2	1477.3	1748.5	1384.8	1094.4	880.6	874.2	912.5
55°	7351.4	3289.6	679.6	842.3	1247.6	1442.2	1305.0	1059.3	794.5	721.1	727.5
57.5°	5941.1	2357.9	500.9	603.0	883.8	1056.1	1177.4	1043.4	714.7	612.6	615.8
60°	3678.9	1336.9	366.9	411.6	545.6	641.3	954.0	970.0	638.1	516.9	510.5
62.5°	1888.9	660.5	284.0	290.4	335.0	376.5	654.1	813.6	577.5	491.4	491.4
65°	631.8	325.5	248.9	223.3	223.3	232.9	395.6	564.8	488.2	411.6	411.6
67.5°	271.2	242.5	217.0	194.6	178.7	169.1	223.3	328.6	363.7	312.7	299.9
70°	210.6	204.2	188.3	162.7	140.4	127.6	130.8	169.1	207.4	201.0	194.6
72.5°	156.3	156.3	150.0	127.6	108.5	92.5	86.1	89.3	98.9	102.1	105.3
75°	108.5	111.7	111.7	98.9	79.8	67.0	57.4	47.9	38.3	31.9	28.7
77.5°	73.4	76.6	83.0	73.4	60.6	44.7	35.1	25.5	16.0	6.4	6.4
80°	63.8	73.4	79.8	73.4	63.8	47.9	35.1	19.1	9.6	0.0	0.0
82.5°	67.0	73.4	83.0	70.2	60.6	44.7	35.1	22.3	9.6	3.2	0.0
85°	16.0	16.0	19.1	22.3	28.7	31.9	25.5	16.0	9.6	3.2	0.0
87.5°	6.4	6.4	6.4	6.4	6.4	3.2	3.2	3.2	3.2	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)