

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: P533003

Luminaire Tested: **GALN-SA8B-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533003
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-SA8B-827-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 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: 20543 lumens
Efficiency: N/A
Efficacy: 63.2 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

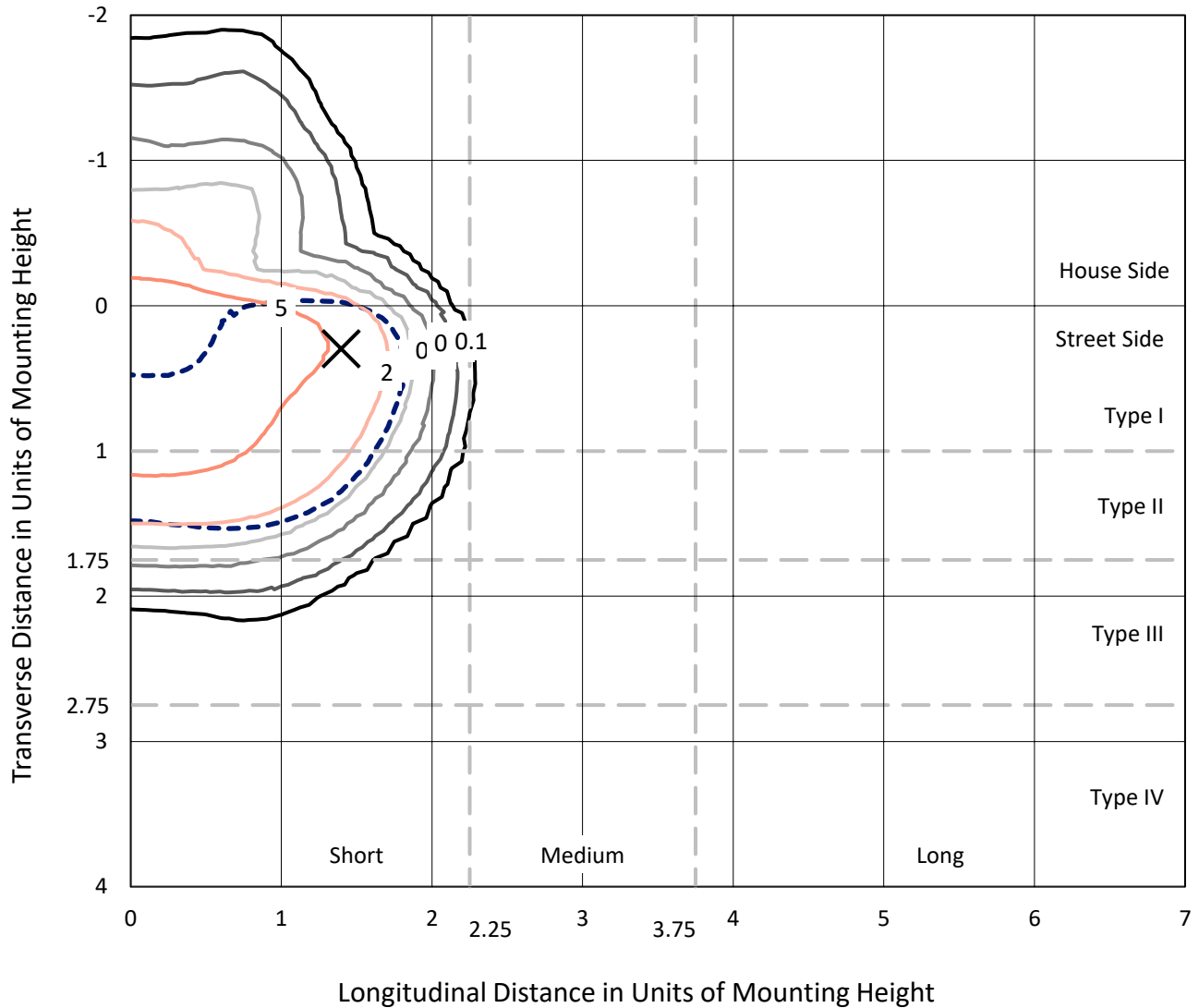
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

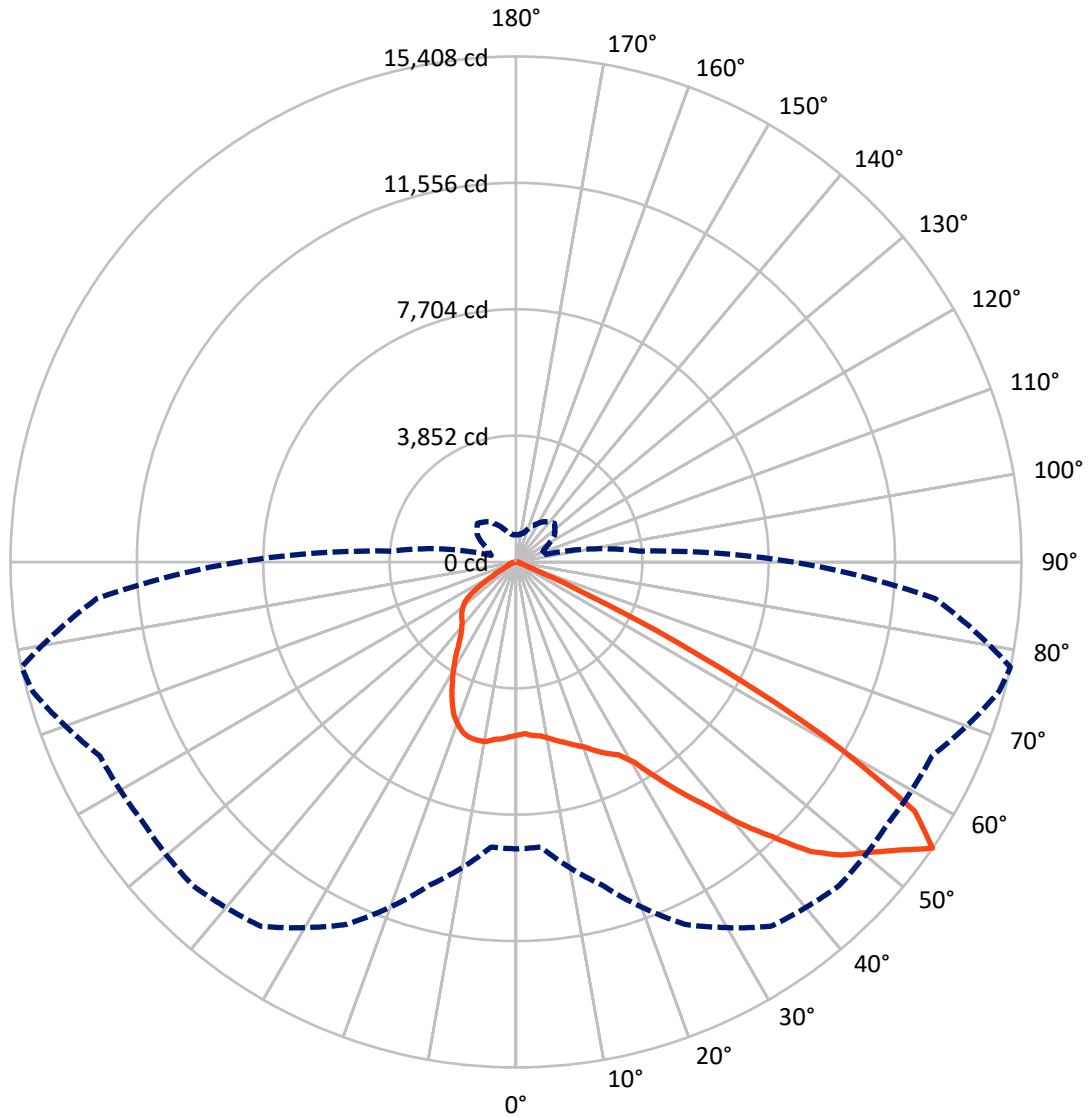
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	3815.6	0.0	3815.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	16727.4	0.0	16727.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	20543.0	0.0	20543.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.0	2.3
10°-20°	1246.4	6.1
20°-30°	2184.7	10.6
30°-40°	3602.3	17.5
40°-50°	5241.8	25.5
50°-60°	5939.5	28.9
60°-70°	1698.2	8.3
70°-80°	131.9	0.6
80°-90°	27.4	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°	20543.0	100.0
0°-180°	20543.0	100.0

Coefficient of Utilization



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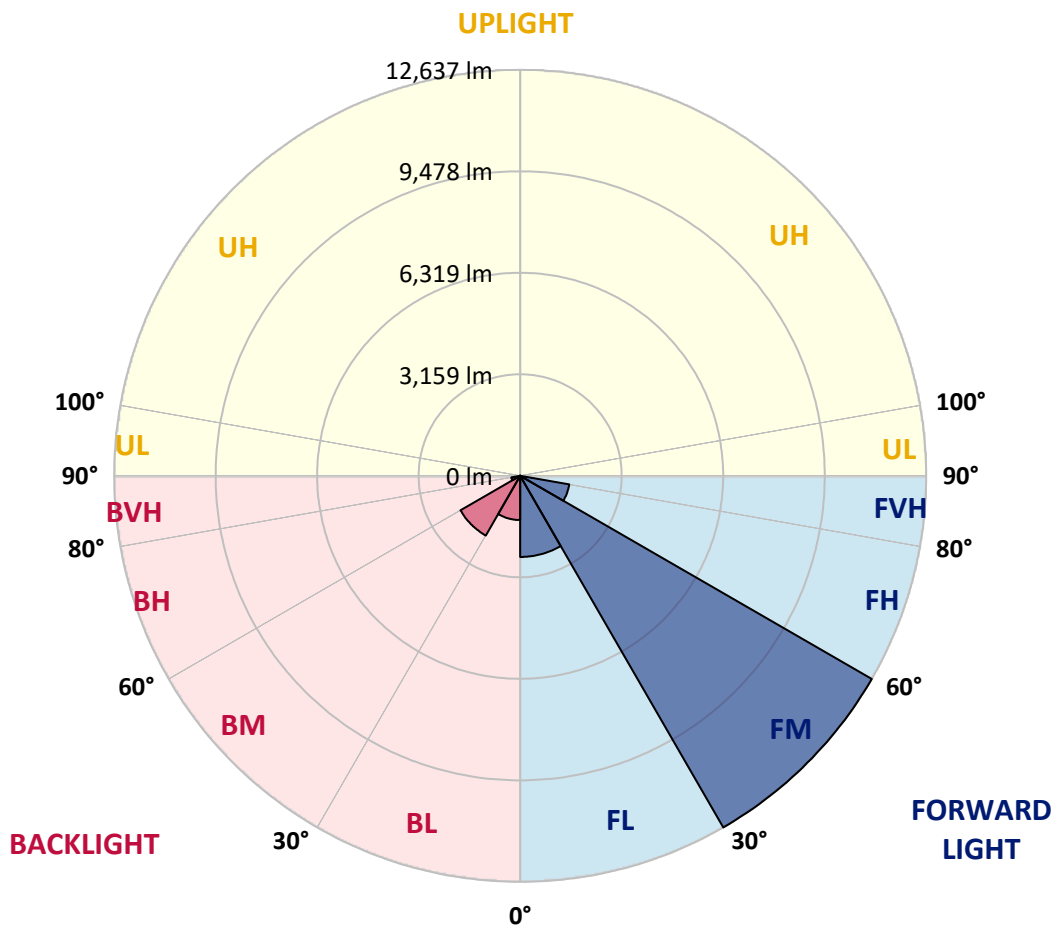
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2525.3	12.3			
FM (30°-60°)	12637.1	61.5			
FH (60°-80°)	1551.5	7.6			G1/1800
FVH (80°-90°)	13.4	0.1			G1/100
BL (0°-30°)	1376.7	6.7	B3/2500		
BM (30°-60°)	2146.3	10.4	B2/2500		
BH (60°-80°)	278.5	1.4	B1/500		G1/500
BVH (80°-90°)	14.1	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°	5281.6	5281.6	5281.6	5281.6	5281.6	5281.6	5281.6	5281.6	5281.6	5281.6	5281.6
2.5°	4965.7	5013.5	5020.8	5079.6	5075.9	5175.1	5204.5	5208.2	5274.3	5241.2	5325.7
5°	4826.2	4800.5	4789.4	4892.3	4921.7	5009.8	5083.3	5127.4	5263.3	5311.0	5399.1
7.5°	4701.3	4701.3	4708.6	4800.5	4789.4	4903.3	4980.4	5116.3	5314.7	5355.1	5461.6
10°	4580.1	4536.0	4591.1	4686.6	4767.4	4818.8	4980.4	5109.0	5340.4	5457.9	5604.8
12.5°	4517.7	4539.7	4547.0	4616.8	4705.0	4859.2	4947.4	5160.4	5524.0	5593.8	5751.7
15°	4910.7	4866.6	4760.1	4697.6	4771.1	4844.5	5064.9	5281.6	5619.5	5718.7	5895.0
17.5°	5366.1	5329.4	5241.2	5072.3	4907.0	5042.9	5215.5	5413.8	5722.4	5869.3	6130.1
20°	5961.1	5902.3	5814.2	5483.6	5340.4	5193.5	5377.1	5612.2	5891.3	6023.5	6291.7
22.5°	6670.0	6670.0	6471.6	6071.3	5773.8	5634.2	5711.3	5847.2	6078.6	6258.6	6523.1
25°	7408.2	7386.2	7206.2	6791.2	6288.0	6122.7	6210.9	6306.4	6368.8	6468.0	6644.3
27.5°	8253.0	8124.4	7896.7	7437.6	6993.2	6673.6	6769.1	6684.7	6607.5	6659.0	6912.4
30°	8826.0	8906.8	8616.6	8175.9	7757.1	7400.9	7419.2	7345.8	6993.2	7066.6	7217.2
32.5°	9421.0	9472.4	9310.8	9068.4	8649.7	8234.6	8084.0	8021.6	7757.1	7790.2	7643.3
35°	9916.8	10016.0	9872.7	9766.2	9645.0	9310.8	8895.7	9097.8	8671.7	8590.9	8208.9
37.5°	10372.2	10342.9	10511.8	10401.6	10375.9	10140.9	9685.4	9725.8	9439.3	9421.0	8980.2
40°	10779.9	10787.3	11018.7	11070.1	10967.3	10548.5	9887.4	10207.0	10438.4	10460.4	9894.8
42.5°	11117.8	11217.0	11415.3	11830.4	11676.1	10978.3	10096.8	10445.7	11305.2	11441.1	10761.6
45°	11411.7	11613.7	11859.8	12230.7	12142.6	11588.0	10618.3	10937.9	12230.7	12587.0	11577.0
47.5°	11430.0	11694.5	11962.6	12513.5	12623.7	11914.9	11158.2	11716.5	12965.3	13351.0	12172.0
50°	11356.6	11496.1	12032.4	12631.1	12880.8	12447.4	11914.9	12370.3	13677.8	13920.3	12473.1
52.5°	10486.1	10592.6	11668.8	12741.3	13343.6	13049.8	12917.6	13281.2	14405.1	14585.1	12756.0
55°	8741.5	8723.1	10203.3	12186.7	13556.6	13942.3	13861.5	13990.0	15246.2	15407.8	12825.7
57.5°	5979.5	6313.7	7591.9	10148.2	12252.8	13732.9	13817.4	13604.4	14265.5	14327.9	11180.3
60°	3224.8	3364.4	4392.8	6772.8	9329.1	11191.3	11411.7	11026.0	10974.6	10798.3	7981.2
62.5°	1281.8	1351.6	1935.6	3353.3	5083.3	6802.2	7276.0	7118.1	6780.2	6317.4	4132.0
65°	609.7	653.8	962.3	1568.3	2255.2	2835.5	3309.3	3456.2	2549.0	2295.6	1362.6
67.5°	415.0	448.1	701.5	896.2	804.4	841.1	1094.5	1017.4	598.7	510.5	378.3
70°	315.9	337.9	562.0	609.7	359.9	253.4	282.8	264.4	246.1	249.8	246.1
72.5°	224.0	242.4	411.4	359.9	157.9	117.5	150.6	180.0	180.0	180.0	176.3
75°	135.9	154.3	238.7	139.6	62.4	62.4	95.5	121.2	128.6	132.2	124.9
77.5°	69.8	88.1	80.8	40.4	40.4	47.7	69.8	84.5	91.8	91.8	88.1
80°	14.7	14.7	14.7	22.0	40.4	51.4	69.8	77.1	88.1	88.1	80.8
82.5°	0.0	3.7	11.0	22.0	36.7	47.7	66.1	77.1	88.1	91.8	84.5
85°	0.0	3.7	7.3	14.7	25.7	29.4	25.7	22.0	22.0	22.0	22.0
87.5°	0.0	0.0	3.7	3.7	3.7	7.3	7.3	7.3	7.3	7.3	7.3
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°	5281.6	5281.6	5281.6	5281.6	5281.6	5281.6	5281.6	5281.6	5281.6	5281.6	5281.6
2.5°	5333.0	5344.1	5325.7	5322.0	5307.3	5351.4	5244.9	5219.2	5285.3	5222.9	5237.5
5°	5402.8	5428.5	5395.5	5340.4	5259.6	5134.7	5028.2	4888.6	4822.5	4774.8	4767.4
7.5°	5454.2	5472.6	5439.6	5263.3	5020.8	4705.0	4469.9	4297.3	4161.4	4121.0	4054.9
10°	5663.6	5667.3	5502.0	5112.7	4638.9	4223.8	3863.9	3599.4	3463.5	3379.1	3342.3
12.5°	5803.2	5795.8	5461.6	4815.2	4183.4	3632.5	3221.1	2901.6	2776.7	2736.3	2710.6
15°	5979.5	5939.1	5366.1	4510.3	3595.8	3000.8	2629.8	2409.4	2398.4	2372.7	2398.4
17.5°	6119.0	6005.2	5226.5	3955.7	3033.8	2471.9	2229.4	2244.1	2273.5	2299.2	2302.9
20°	6346.8	6111.7	4907.0	3470.9	2512.3	2119.3	2115.6	2181.7	2255.2	2284.5	2313.9
22.5°	6519.4	6155.8	4565.4	2953.0	2086.2	1976.0	2038.5	2137.6	2192.7	2222.1	2266.2
25°	6581.8	6034.6	4110.0	2435.1	1880.5	1909.9	2005.4	2071.5	2141.3	2174.4	2156.0
27.5°	6644.3	5972.1	3566.4	2005.4	1770.3	1865.8	1946.6	2012.7	2034.8	2078.9	2108.2
30°	6794.8	5755.4	3077.9	1733.6	1715.2	1836.4	1895.2	1917.2	1976.0	2001.7	2001.7
32.5°	6916.1	5670.9	2560.0	1605.1	1707.9	1851.1	1858.5	1858.5	1865.8	1847.5	1840.1
35°	7165.8	5380.8	2097.2	1527.9	1704.2	1854.8	1873.2	1810.7	1641.8	1575.7	1557.3
37.5°	7474.3	5193.5	1755.6	1509.6	1729.9	1898.9	1928.3	1693.2	1472.8	1366.3	1348.0
40°	7849.0	5061.2	1531.6	1502.2	1788.7	2001.7	1913.6	1601.4	1314.9	1160.6	1153.3
42.5°	8286.0	4940.0	1381.0	1498.5	1862.2	2108.2	1898.9	1524.2	1153.3	1050.4	1065.1
45°	8635.0	4873.9	1278.2	1472.8	1887.9	2170.7	1909.9	1388.4	1087.2	1021.1	1028.4
47.5°	8906.8	4734.4	1193.7	1428.8	1884.2	2192.7	1810.7	1333.3	1054.1	1072.5	1090.8
50°	8914.1	4547.0	1087.2	1333.3	1829.1	2152.3	1696.9	1281.8	1046.8	1123.9	1160.6
52.5°	8814.9	4282.6	973.3	1197.4	1700.5	2012.7	1594.0	1259.8	1013.7	1006.4	1050.4
55°	8462.3	3786.8	782.3	969.6	1436.1	1660.1	1502.2	1219.4	914.5	830.1	837.4
57.5°	6838.9	2714.3	576.6	694.2	1017.4	1215.7	1355.3	1201.0	822.7	705.2	708.9
60°	4234.8	1538.9	422.4	473.8	628.1	738.3	1098.2	1116.6	734.6	595.0	587.7
62.5°	2174.4	760.3	326.9	334.2	385.7	433.4	752.9	936.6	664.8	565.6	565.6
65°	727.2	374.6	286.5	257.1	257.1	268.1	455.4	650.1	562.0	473.8	473.8
67.5°	312.2	279.1	249.8	224.0	205.7	194.7	257.1	378.3	418.7	359.9	345.3
70°	242.4	235.1	216.7	187.3	161.6	146.9	150.6	194.7	238.7	231.4	224.0
72.5°	180.0	180.0	172.6	146.9	124.9	106.5	99.2	102.8	113.9	117.5	121.2
75°	124.9	128.6	128.6	113.9	91.8	77.1	66.1	55.1	44.1	36.7	33.1
77.5°	84.5	88.1	95.5	84.5	69.8	51.4	40.4	29.4	18.4	7.3	7.3
80°	73.5	84.5	91.8	84.5	73.5	55.1	40.4	22.0	11.0	0.0	0.0
82.5°	77.1	84.5	95.5	80.8	69.8	51.4	40.4	25.7	11.0	3.7	0.0
85°	18.4	18.4	22.0	25.7	33.1	36.7	29.4	18.4	11.0	3.7	0.0
87.5°	7.3	7.3	7.3	7.3	7.3	3.7	3.7	3.7	3.7	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)