

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: P532847

Luminaire Tested: **GALN-SA8B-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532847
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-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 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: 23370 lumens
Efficiency: N/A
Efficacy: 71.9 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

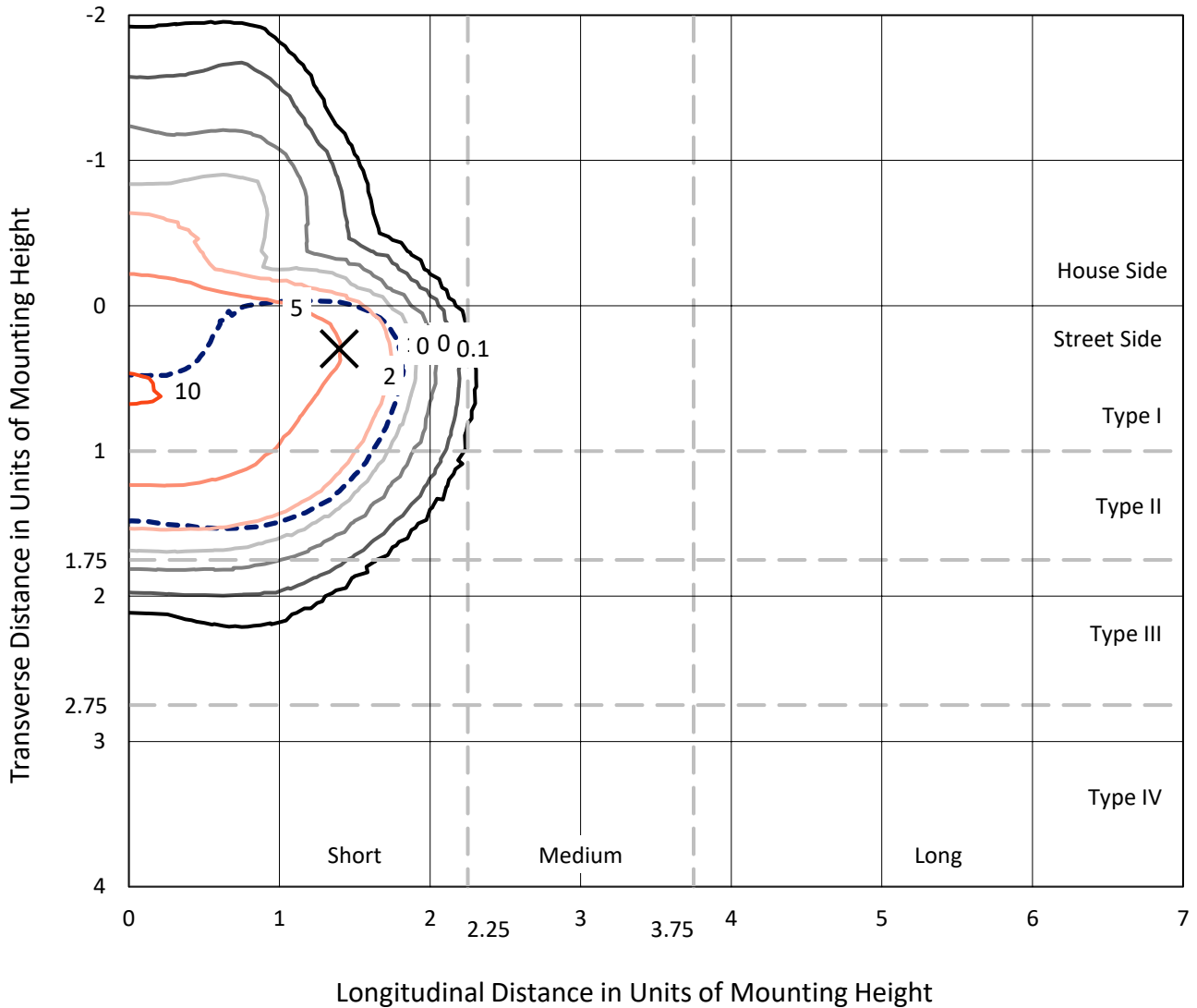
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

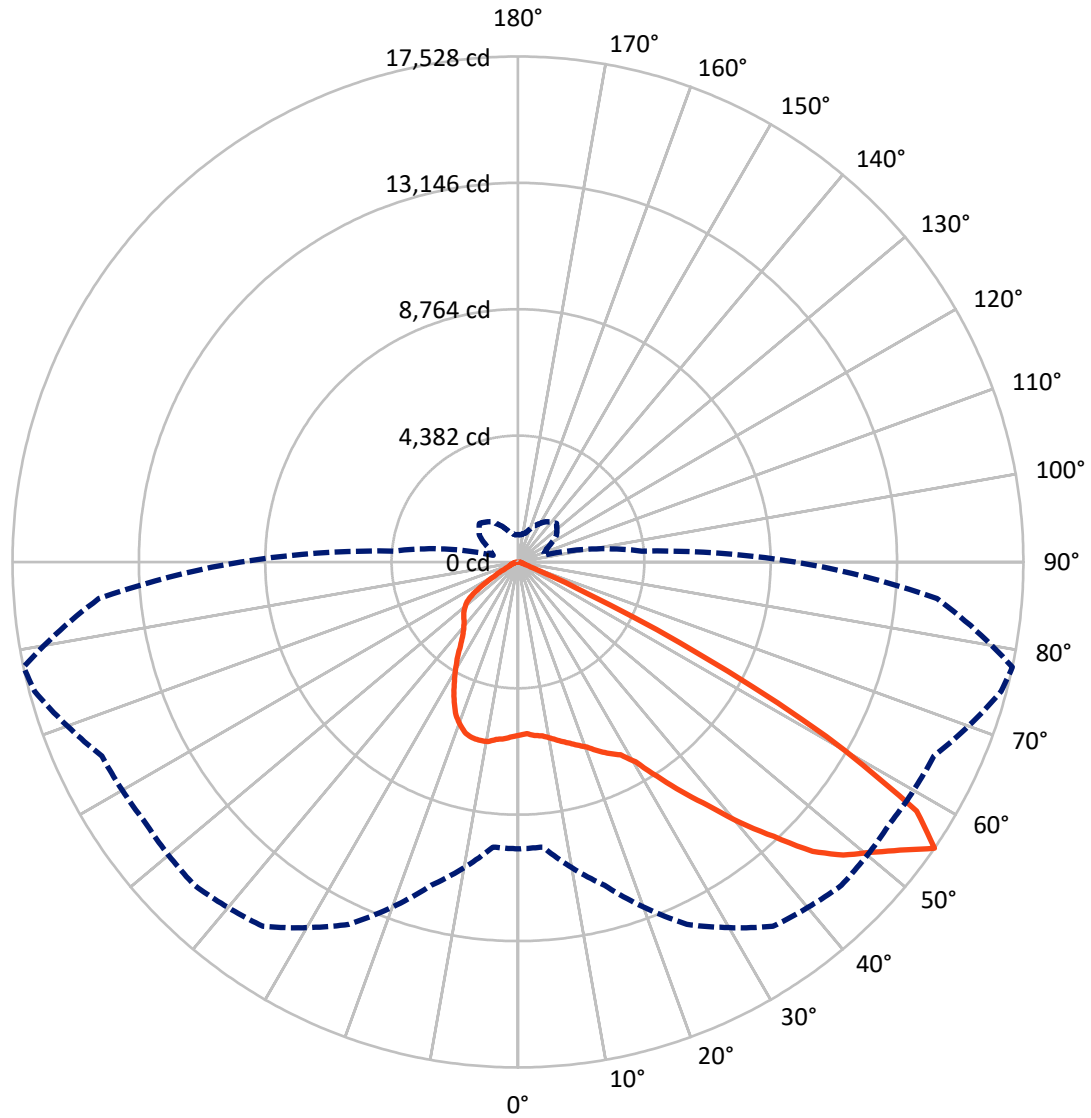
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	4340.7	0.0	4340.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	19029.3	0.0	19029.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	23370.0	0.0	23370.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.8	2.3
10°-20°	1417.9	6.1
20°-30°	2485.3	10.6
30°-40°	4098.0	17.5
40°-50°	5963.1	25.5
50°-60°	6756.8	28.9
60°-70°	1931.9	8.3
70°-80°	150.0	0.6
80°-90°	31.2	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°	23370.0	100.0
0°-180°	23370.0	100.0

Coefficient of Utilization



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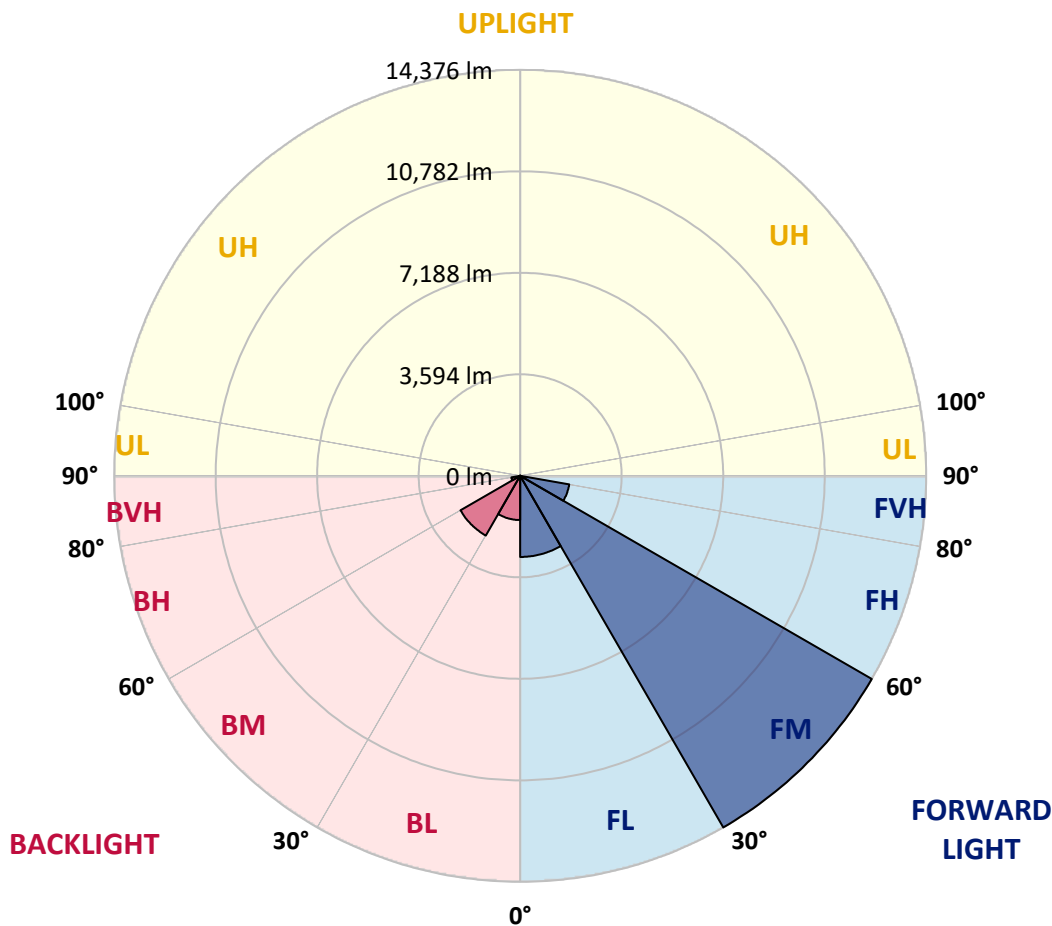
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2872.8	12.3			
FM (30°-60°)	14376.2	61.5			
FH (60°-80°)	1765.1	7.6			G1/1800
FVH (80°-90°)	15.2	0.1			G1/100
BL (0°-30°)	1566.1	6.7	B3/2500		
BM (30°-60°)	2441.7	10.4	B2/2500		
BH (60°-80°)	316.9	1.4	B1/500		G1/500
BVH (80°-90°)	16.0	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°	6008.4	6008.4	6008.4	6008.4	6008.4	6008.4	6008.4	6008.4	6008.4	6008.4	6008.4
2.5°	5649.1	5703.4	5711.8	5778.6	5774.5	5887.3	5920.7	5924.9	6000.1	5962.5	6058.6
5°	5490.3	5461.1	5448.5	5565.5	5599.0	5699.2	5782.8	5833.0	5987.5	6041.9	6142.1
7.5°	5348.3	5348.3	5356.6	5461.1	5448.5	5578.1	5665.8	5820.4	6046.0	6092.0	6213.2
10°	5210.4	5160.2	5222.9	5331.6	5423.5	5482.0	5665.8	5812.1	6075.3	6209.0	6376.1
12.5°	5139.3	5164.4	5172.8	5252.2	5352.4	5527.9	5628.2	5870.6	6284.2	6363.6	6543.3
15°	5586.4	5536.3	5415.1	5344.1	5427.7	5511.2	5761.9	6008.4	6392.8	6505.7	6706.2
17.5°	6104.5	6062.8	5962.5	5770.3	5582.3	5736.8	5933.2	6158.9	6509.8	6677.0	6973.6
20°	6781.4	6714.6	6614.3	6238.2	6075.3	5908.2	6117.1	6384.5	6702.0	6852.5	7157.5
22.5°	7587.9	7587.9	7362.2	6906.8	6568.3	6409.6	6497.3	6651.9	6915.1	7119.9	7420.7
25°	8427.7	8402.6	8197.9	7725.7	7153.3	6965.3	7065.6	7174.2	7245.2	7358.0	7558.6
27.5°	9388.7	9242.5	8983.4	8461.1	7955.5	7592.0	7700.7	7604.6	7516.8	7575.3	7863.6
30°	10040.5	10132.5	9802.4	9301.0	8824.6	8419.3	8440.2	8356.7	7955.5	8039.1	8210.4
32.5°	10717.4	10775.9	10592.1	10316.3	9840.0	9367.8	9196.5	9125.5	8824.6	8862.2	8695.1
35°	11281.5	11394.3	11231.4	11110.2	10972.3	10592.1	10119.9	10349.7	9865.0	9773.1	9338.6
37.5°	11799.6	11766.2	11958.4	11833.0	11803.8	11536.4	11018.3	11064.2	10738.3	10717.4	10216.0
40°	12263.4	12271.8	12535.0	12593.5	12476.5	12000.2	11248.1	11611.6	11874.8	11899.9	11256.4
42.5°	12647.8	12760.6	12986.3	13458.4	13282.9	12489.0	11486.2	11883.2	12860.9	13015.5	12242.5
45°	12982.1	13211.9	13491.8	13913.8	13813.6	13182.6	12079.6	12443.1	13913.8	14319.1	13170.1
47.5°	13003.0	13303.8	13608.8	14235.6	14360.9	13554.5	12693.8	13328.9	14749.5	15188.2	13847.0
50°	12919.4	13078.2	13688.2	14369.3	14653.4	14160.4	13554.5	14072.6	15560.1	15835.9	14189.6
52.5°	11929.1	12050.3	13274.6	14494.6	15179.9	14845.6	14695.2	15108.8	16387.4	16592.2	14511.3
55°	9944.4	9923.5	11607.4	13863.7	15422.2	15860.9	15769.0	15915.3	17344.3	17528.1	14590.7
57.5°	6802.3	7182.6	8636.6	11544.7	13938.9	15622.8	15718.9	15476.5	16228.6	16299.7	12718.8
60°	3668.6	3827.4	4997.3	7704.8	10613.0	12731.4	12982.1	12543.4	12484.9	12284.3	9079.5
62.5°	1458.2	1537.6	2202.0	3814.8	5782.8	7738.3	8277.3	8097.6	7713.2	7186.7	4700.6
65°	693.6	743.7	1094.7	1784.1	2565.5	3225.7	3764.7	3931.8	2899.8	2611.5	1550.2
67.5°	472.2	509.8	798.1	1019.5	915.1	956.8	1245.1	1157.4	681.1	580.8	430.4
70°	359.3	384.4	639.3	693.6	409.5	288.3	321.7	300.8	279.9	284.1	279.9
72.5°	254.9	275.8	468.0	409.5	179.7	133.7	171.3	204.7	204.7	204.7	200.6
75°	154.6	175.5	271.6	158.8	71.0	71.0	108.6	137.9	146.2	150.4	142.1
77.5°	79.4	100.3	91.9	46.0	46.0	54.3	79.4	96.1	104.5	104.5	100.3
80°	16.7	16.7	16.7	25.1	46.0	58.5	79.4	87.7	100.3	100.3	91.9
82.5°	0.0	4.2	12.5	25.1	41.8	54.3	75.2	87.7	100.3	104.5	96.1
85°	0.0	4.2	8.4	16.7	29.2	33.4	29.2	25.1	25.1	25.1	25.1
87.5°	0.0	0.0	4.2	4.2	4.2	8.4	8.4	8.4	8.4	8.4	8.4
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°	6008.4	6008.4	6008.4	6008.4	6008.4	6008.4	6008.4	6008.4	6008.4	6008.4	6008.4
2.5°	6066.9	6079.5	6058.6	6054.4	6037.7	6087.8	5966.7	5937.4	6012.6	5941.6	5958.3
5°	6146.3	6175.6	6138.0	6075.3	5983.4	5841.3	5720.1	5561.4	5486.1	5431.8	5423.5
7.5°	6204.8	6225.7	6188.1	5987.5	5711.8	5352.4	5085.0	4888.6	4734.0	4688.1	4612.9
10°	6443.0	6447.2	6259.1	5816.2	5277.2	4805.1	4395.6	4094.8	3940.2	3844.1	3802.3
12.5°	6601.8	6593.4	6213.2	5477.8	4759.1	4132.4	3664.4	3300.9	3158.8	3112.9	3083.6
15°	6802.3	6756.4	6104.5	5131.0	4090.6	3413.7	2991.7	2741.0	2728.5	2699.2	2728.5
17.5°	6961.1	6831.6	5945.8	4500.1	3451.3	2812.0	2536.2	2553.0	2586.4	2615.6	2619.8
20°	7220.2	6952.7	5582.3	3948.5	2858.0	2410.9	2406.7	2481.9	2565.5	2598.9	2632.3
22.5°	7416.5	7002.9	5193.7	3359.4	2373.3	2247.9	2319.0	2431.8	2494.5	2527.9	2578.0
25°	7487.6	6865.0	4675.6	2770.2	2139.3	2172.7	2281.4	2356.6	2436.0	2473.6	2452.7
27.5°	7558.6	6794.0	4057.2	2281.4	2014.0	2122.6	2214.5	2289.7	2314.8	2364.9	2398.4
30°	7729.9	6547.4	3501.4	1972.2	1951.3	2089.2	2156.0	2181.1	2247.9	2277.2	2277.2
32.5°	7867.8	6451.3	2912.3	1825.9	1942.9	2105.9	2114.2	2114.2	2122.6	2101.7	2093.3
35°	8151.9	6121.3	2385.8	1738.2	1938.7	2110.1	2130.9	2059.9	1867.7	1792.5	1771.6
37.5°	8502.9	5908.2	1997.2	1717.3	1968.0	2160.2	2193.6	1926.2	1675.5	1554.3	1533.4
40°	8929.1	5757.7	1742.4	1708.9	2034.8	2277.2	2176.9	1821.8	1495.8	1320.4	1312.0
42.5°	9426.3	5619.9	1571.1	1704.8	2118.4	2398.4	2160.2	1734.0	1312.0	1195.0	1211.7
45°	9823.3	5544.6	1454.1	1675.5	2147.7	2469.4	2172.7	1579.4	1236.8	1161.6	1169.9
47.5°	10132.5	5385.9	1358.0	1625.4	2143.5	2494.5	2059.9	1516.7	1199.2	1220.1	1241.0
50°	10140.8	5172.8	1236.8	1516.7	2080.8	2448.5	1930.4	1458.2	1190.8	1278.6	1320.4
52.5°	10028.0	4871.9	1107.3	1362.1	1934.6	2289.7	1813.4	1433.2	1153.2	1144.9	1195.0
55°	9626.9	4307.9	890.0	1103.1	1633.7	1888.6	1708.9	1387.2	1040.4	944.3	952.7
57.5°	7780.1	3087.8	656.0	789.7	1157.4	1383.0	1541.8	1366.3	935.9	802.2	806.4
60°	4817.6	1750.7	480.5	539.0	714.5	839.8	1249.3	1270.2	835.7	676.9	668.5
62.5°	2473.6	864.9	371.9	380.2	438.7	493.0	856.6	1065.5	756.3	643.5	643.5
65°	827.3	426.2	325.9	292.5	292.5	305.0	518.1	739.6	639.3	539.0	539.0
67.5°	355.2	317.6	284.1	254.9	234.0	221.5	292.5	430.4	476.3	409.5	392.8
70°	275.8	267.4	246.5	213.1	183.8	167.1	171.3	221.5	271.6	263.2	254.9
72.5°	204.7	204.7	196.4	167.1	142.1	121.2	112.8	117.0	129.5	133.7	137.9
75°	142.1	146.2	146.2	129.5	104.5	87.7	75.2	62.7	50.1	41.8	37.6
77.5°	96.1	100.3	108.6	96.1	79.4	58.5	46.0	33.4	20.9	8.4	8.4
80°	83.6	96.1	104.5	96.1	83.6	62.7	46.0	25.1	12.5	0.0	0.0
82.5°	87.7	96.1	108.6	91.9	79.4	58.5	46.0	29.2	12.5	4.2	0.0
85°	20.9	20.9	25.1	29.2	37.6	41.8	33.4	20.9	12.5	4.2	0.0
87.5°	8.4	8.4	8.4	8.4	8.4	4.2	4.2	4.2	4.2	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)