

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: P532015

Luminaire Tested: **GALN-SA7B-750-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532015
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-SA7B-750-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 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: 24104 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

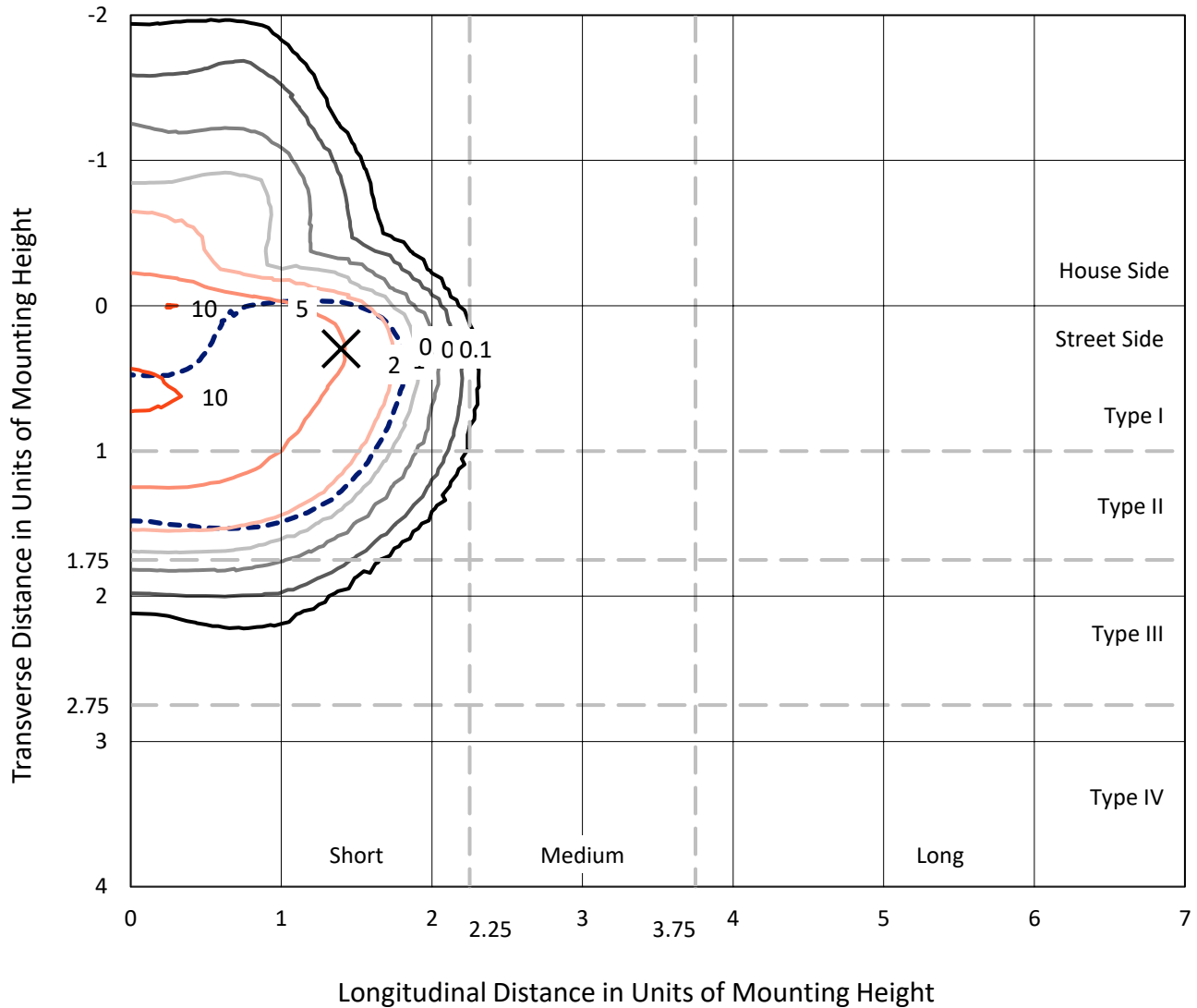
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

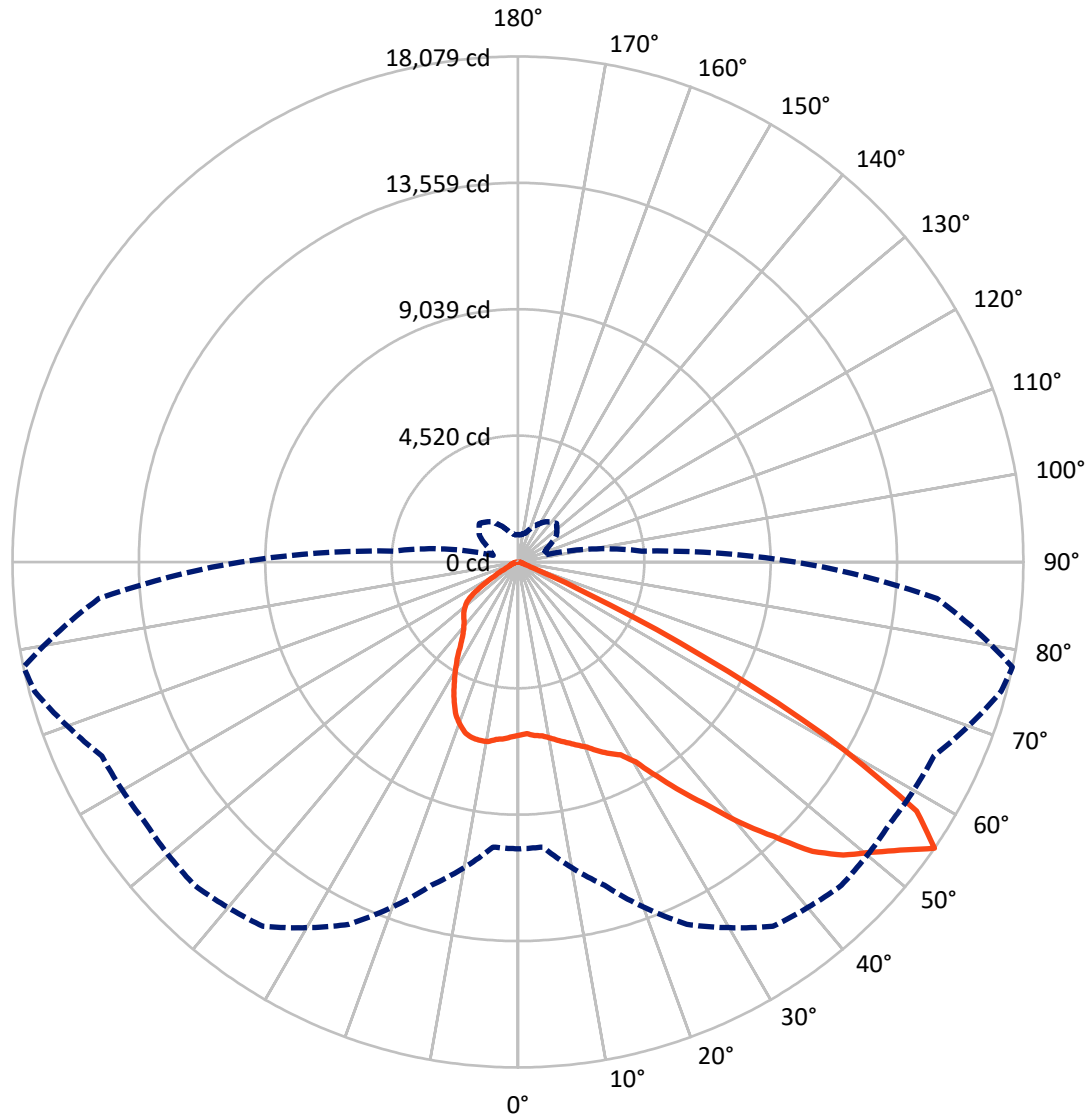
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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	4477.0	0.0	4477.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	19626.9	0.0	19626.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	24104.0	0.0	24104.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.6	2.3
10°-20°	1462.4	6.1
20°-30°	2563.4	10.6
30°-40°	4226.7	17.5
40°-50°	6150.4	25.5
50°-60°	6969.0	28.9
60°-70°	1992.6	8.3
70°-80°	154.7	0.6
80°-90°	32.2	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°	24104.0	100.0
0°-180°	24104.0	100.0

Coefficient of Utilization



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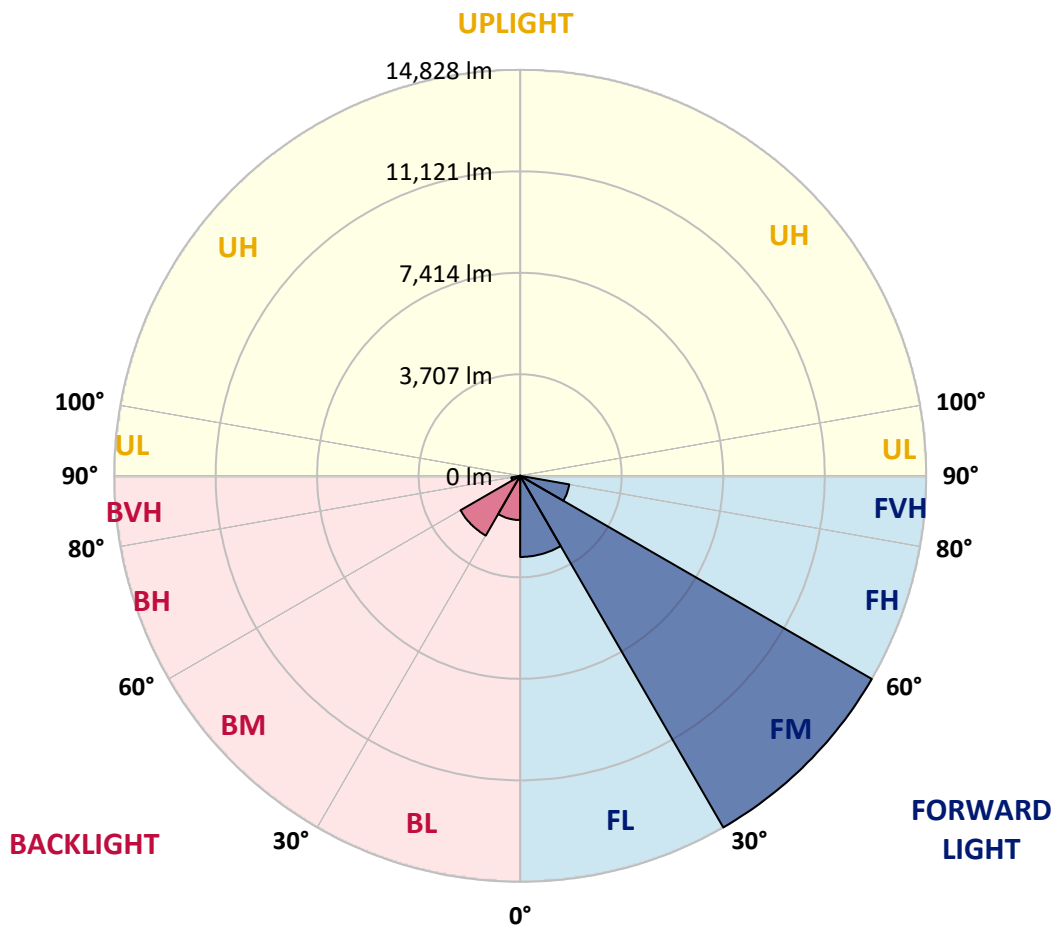
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2963.1	12.3			
FM (30°-60°)	14827.7	61.5			
FH (60°-80°)	1820.5	7.6			G2/5000
FVH (80°-90°)	15.7	0.1			G1/100
BL (0°-30°)	1615.3	6.7	B3/2500		
BM (30°-60°)	2518.4	10.4	B3/5000		
BH (60°-80°)	326.8	1.4	B1/500		G1/500
BVH (80°-90°)	16.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	6197.2	6197.2	6197.2	6197.2	6197.2	6197.2	6197.2	6197.2	6197.2	6197.2	6197.2
2.5°	5826.5	5882.6	5891.2	5960.1	5955.8	6072.2	6106.7	6111.0	6188.5	6149.7	6248.9
5°	5662.8	5632.6	5619.7	5740.3	5774.8	5878.2	5964.4	6016.2	6175.6	6231.6	6335.1
7.5°	5516.2	5516.2	5524.9	5632.6	5619.7	5753.3	5843.8	6003.2	6235.9	6283.3	6408.3
10°	5374.0	5322.3	5387.0	5499.0	5593.8	5654.1	5843.8	5994.6	6266.1	6404.0	6576.4
12.5°	5300.8	5326.6	5335.2	5417.1	5520.6	5701.6	5805.0	6054.9	6481.6	6563.5	6748.8
15°	5761.9	5710.2	5585.2	5511.9	5598.1	5684.3	5942.9	6197.2	6593.6	6710.0	6916.8
17.5°	6296.3	6253.2	6149.7	5951.5	5757.6	5917.0	6119.6	6352.3	6714.3	6886.7	7192.7
20°	6994.4	6925.5	6822.0	6434.2	6266.1	6093.7	6309.2	6585.0	6912.5	7067.7	7382.3
22.5°	7826.2	7826.2	7593.5	7123.7	6774.6	6610.9	6701.4	6860.8	7132.3	7343.5	7653.8
25°	8692.4	8666.5	8455.4	7968.4	7378.0	7184.0	7287.5	7399.5	7472.8	7589.1	7796.0
27.5°	9683.6	9532.8	9265.6	8726.9	8205.4	7830.5	7942.5	7843.4	7752.9	7813.2	8110.6
30°	10355.9	10450.7	10110.2	9593.1	9101.8	8683.8	8705.3	8619.1	8205.4	8291.6	8468.3
32.5°	11054.0	11114.4	10924.7	10640.3	10149.0	9662.0	9485.3	9412.1	9101.8	9140.6	8968.2
35°	11635.8	11752.2	11584.1	11459.1	11316.9	10924.7	10437.8	10674.8	10174.9	10080.1	9631.9
37.5°	12170.2	12135.7	12334.0	12204.7	12174.5	11898.7	11364.3	11411.7	11075.6	11054.0	10536.9
40°	12648.6	12657.2	12928.7	12989.0	12868.4	12377.1	11601.3	11976.3	12247.8	12273.6	11610.0
42.5°	13045.0	13161.4	13394.1	13881.1	13700.1	12881.3	11847.0	12256.4	13264.8	13424.3	12627.0
45°	13389.8	13626.8	13915.6	14350.8	14247.4	13596.7	12458.9	12833.9	14350.8	14768.9	13583.7
47.5°	13411.4	13721.7	14036.2	14682.7	14812.0	13980.2	13092.5	13747.5	15212.8	15665.3	14281.9
50°	13325.2	13488.9	14118.1	14820.6	15113.6	14605.1	13980.2	14514.6	16048.8	16333.2	14635.3
52.5°	12303.8	12428.8	13691.5	14949.9	15656.6	15311.9	15156.7	15583.4	16902.1	17113.3	14967.1
55°	10256.8	10235.2	11972.0	14299.1	15906.6	16359.1	16264.3	16415.1	17889.0	18078.6	15049.0
57.5°	7016.0	7408.1	8907.9	11907.3	14376.7	16113.5	16212.6	15962.6	16738.3	16811.6	13118.3
60°	3783.8	3947.6	5154.2	7946.8	10946.3	13131.2	13389.8	12937.3	12877.0	12670.1	9364.7
62.5°	1504.0	1585.9	2271.1	3934.6	5964.4	7981.3	8537.2	8351.9	7955.5	7412.4	4848.3
65°	715.4	767.1	1129.1	1840.2	2646.1	3327.0	3882.9	4055.3	2990.8	2693.5	1598.8
67.5°	487.0	525.8	823.1	1051.5	943.8	986.9	1284.2	1193.7	702.5	599.0	443.9
70°	370.6	396.5	659.4	715.4	422.3	297.4	331.8	310.3	288.7	293.1	288.7
72.5°	262.9	284.4	482.7	422.3	185.3	137.9	176.7	211.2	211.2	211.2	206.9
75°	159.5	181.0	280.1	163.8	73.3	73.3	112.0	142.2	150.8	155.1	146.5
77.5°	81.9	103.4	94.8	47.4	47.4	56.0	81.9	99.1	107.7	107.7	103.4
80°	17.2	17.2	17.2	25.9	47.4	60.3	81.9	90.5	103.4	103.4	94.8
82.5°	0.0	4.3	12.9	25.9	43.1	56.0	77.6	90.5	103.4	107.7	99.1
85°	0.0	4.3	8.6	17.2	30.2	34.5	30.2	25.9	25.9	25.9	25.9
87.5°	0.0	0.0	4.3	4.3	4.3	8.6	8.6	8.6	8.6	8.6	8.6
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°	6197.2	6197.2	6197.2	6197.2	6197.2	6197.2	6197.2	6197.2	6197.2	6197.2	6197.2
2.5°	6257.5	6270.4	6248.9	6244.6	6227.3	6279.0	6154.1	6123.9	6201.5	6128.2	6145.4
5°	6339.4	6369.5	6330.7	6266.1	6171.3	6024.8	5899.8	5736.0	5658.5	5602.4	5593.8
7.5°	6399.7	6421.2	6382.5	6175.6	5891.2	5520.6	5244.7	5042.2	4882.7	4835.3	4757.8
10°	6645.3	6649.7	6455.7	5998.9	5443.0	4956.0	4533.7	4223.4	4063.9	3964.8	3921.7
12.5°	6809.1	6800.5	6408.3	5649.8	4908.6	4262.2	3779.5	3404.6	3258.0	3210.6	3180.5
15°	7016.0	6968.6	6296.3	5292.1	4219.1	3520.9	3085.6	2827.1	2814.1	2784.0	2814.1
17.5°	7179.7	7046.1	6132.5	4641.4	3559.7	2900.3	2615.9	2633.1	2667.6	2697.8	2702.1
20°	7446.9	7171.1	5757.6	4072.5	2947.7	2486.6	2482.3	2559.9	2646.1	2680.5	2715.0
22.5°	7649.5	7222.8	5356.8	3464.9	2447.8	2318.5	2391.8	2508.2	2572.8	2607.3	2659.0
25°	7722.7	7080.6	4822.4	2857.2	2206.5	2241.0	2353.0	2430.6	2512.5	2551.3	2529.7
27.5°	7796.0	7007.4	4184.6	2353.0	2077.2	2189.3	2284.1	2361.6	2387.5	2439.2	2473.7
30°	7972.7	6753.1	3611.4	2034.1	2012.6	2154.8	2223.7	2249.6	2318.5	2348.7	2348.7
32.5°	8114.9	6654.0	3003.8	1883.3	2003.9	2172.0	2180.6	2180.6	2189.3	2167.7	2159.1
35°	8408.0	6313.5	2460.8	1792.8	1999.6	2176.3	2197.9	2124.6	1926.4	1848.8	1827.3
37.5°	8770.0	6093.7	2060.0	1771.2	2029.8	2228.0	2262.5	1986.7	1728.1	1603.2	1581.6
40°	9209.5	5938.6	1797.1	1762.6	2098.8	2348.7	2245.3	1879.0	1542.8	1361.8	1353.2
42.5°	9722.4	5796.4	1620.4	1758.3	2184.9	2473.7	2228.0	1788.5	1353.2	1232.5	1249.8
45°	10131.8	5718.8	1499.7	1728.1	2215.1	2547.0	2241.0	1629.0	1275.6	1198.1	1206.7
47.5°	10450.7	5555.0	1400.6	1676.4	2210.8	2572.8	2124.6	1564.4	1236.8	1258.4	1279.9
50°	10459.3	5335.2	1275.6	1564.4	2146.2	2525.4	1991.0	1504.0	1228.2	1318.7	1361.8
52.5°	10343.0	5025.0	1142.0	1404.9	1995.3	2361.6	1870.4	1478.2	1189.4	1180.8	1232.5
55°	9929.2	4443.2	917.9	1137.7	1685.0	1947.9	1762.6	1430.8	1073.1	974.0	982.6
57.5°	8024.4	3184.8	676.6	814.5	1193.7	1426.5	1590.2	1409.2	965.3	827.4	831.7
60°	4968.9	1805.7	495.6	555.9	736.9	866.2	1288.6	1310.1	861.9	698.1	689.5
62.5°	2551.3	892.1	383.6	392.2	452.5	508.5	883.5	1098.9	780.0	663.7	663.7
65°	853.3	439.6	336.1	301.7	301.7	314.6	534.4	762.8	659.4	555.9	555.9
67.5°	366.3	327.5	293.1	262.9	241.3	228.4	301.7	443.9	491.3	422.3	405.1
70°	284.4	275.8	254.3	219.8	189.6	172.4	176.7	228.4	280.1	271.5	262.9
72.5°	211.2	211.2	202.5	172.4	146.5	125.0	116.4	120.7	133.6	137.9	142.2
75°	146.5	150.8	150.8	133.6	107.7	90.5	77.6	64.6	51.7	43.1	38.8
77.5°	99.1	103.4	112.0	99.1	81.9	60.3	47.4	34.5	21.5	8.6	8.6
80°	86.2	99.1	107.7	99.1	86.2	64.6	47.4	25.9	12.9	0.0	0.0
82.5°	90.5	99.1	112.0	94.8	81.9	60.3	47.4	30.2	12.9	4.3	0.0
85°	21.5	21.5	25.9	30.2	38.8	43.1	34.5	21.5	12.9	4.3	0.0
87.5°	8.6	8.6	8.6	8.6	8.6	4.3	4.3	4.3	4.3	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)