

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: P532353

Luminaire Tested: **GALN-SA7D-722-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532353
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-SA7D-722-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2200K, 1200mA 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: 24090 lumens
Efficiency: N/A
Efficacy: 55.6 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

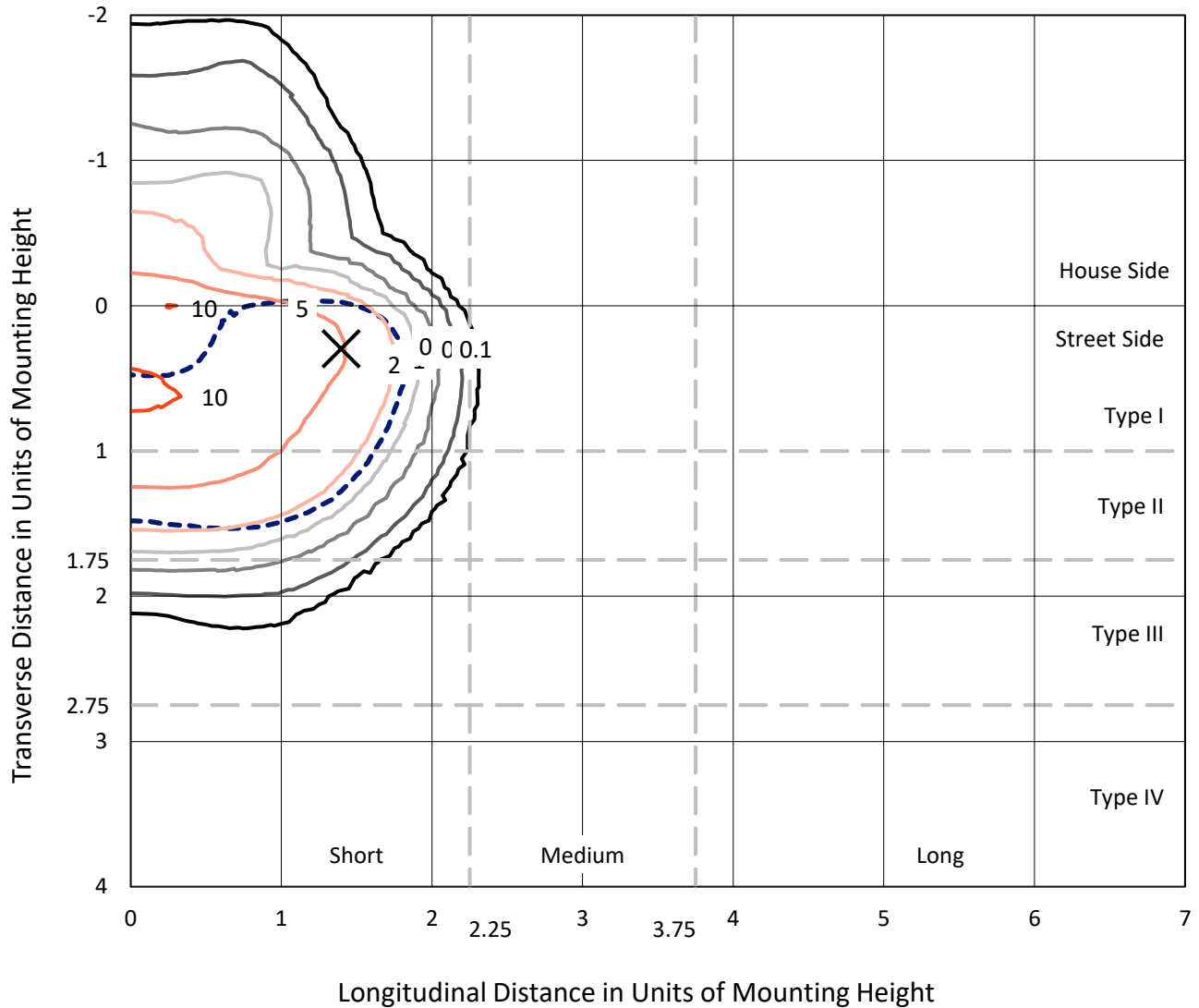
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

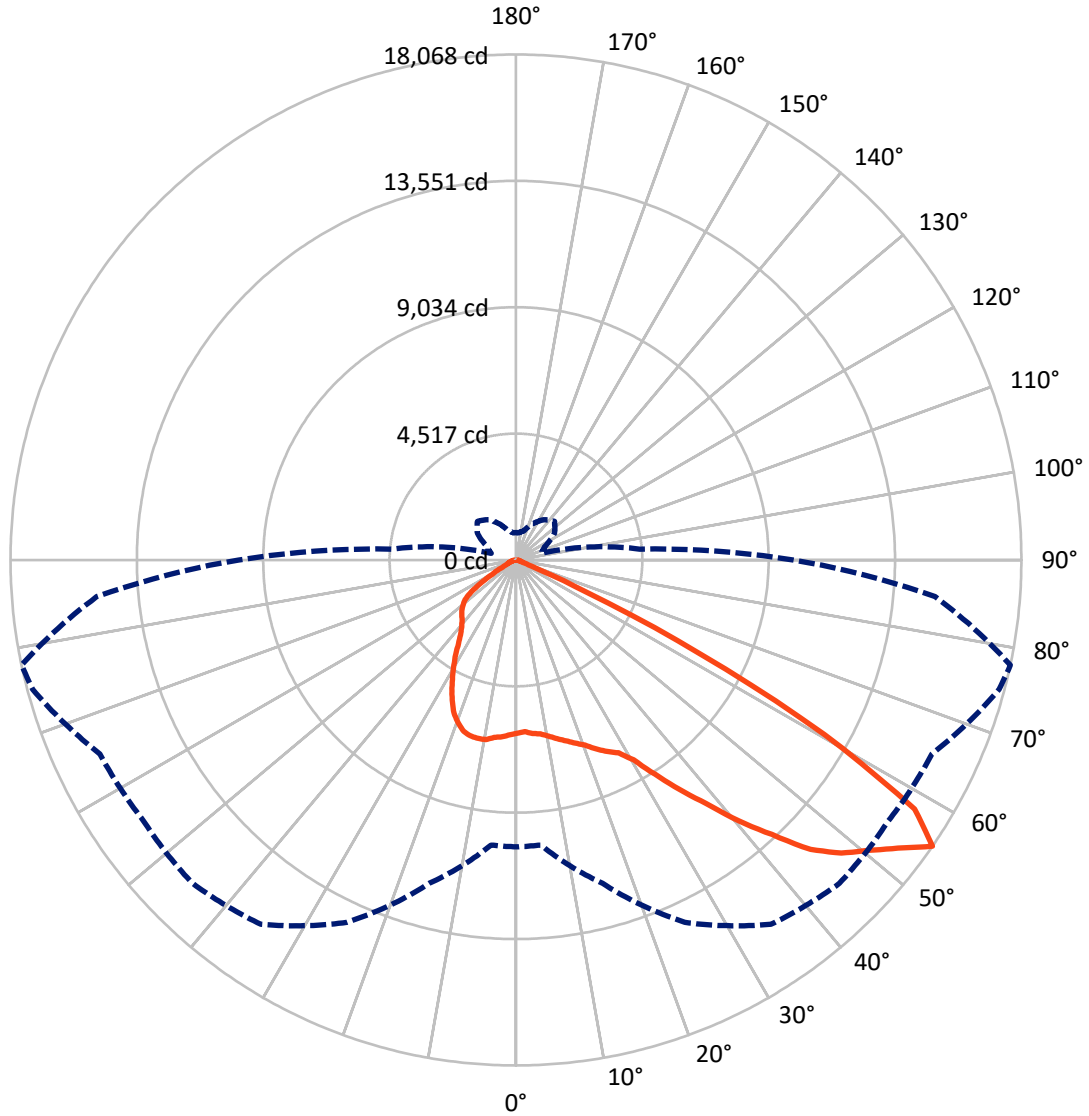
✕ Max cd
 - - - 1/2 Max cd



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	4474.5	0.0	4474.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	19615.5	0.0	19615.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	24090.0	0.0	24090.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.3	2.3
10°-20°	1461.6	6.1
20°-30°	2561.9	10.6
30°-40°	4224.3	17.5
40°-50°	6146.8	25.5
50°-60°	6965.0	28.9
60°-70°	1991.4	8.3
70°-80°	154.6	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°	24090.0	100.0
0°-180°	24090.0	100.0

Coefficient of Utilization



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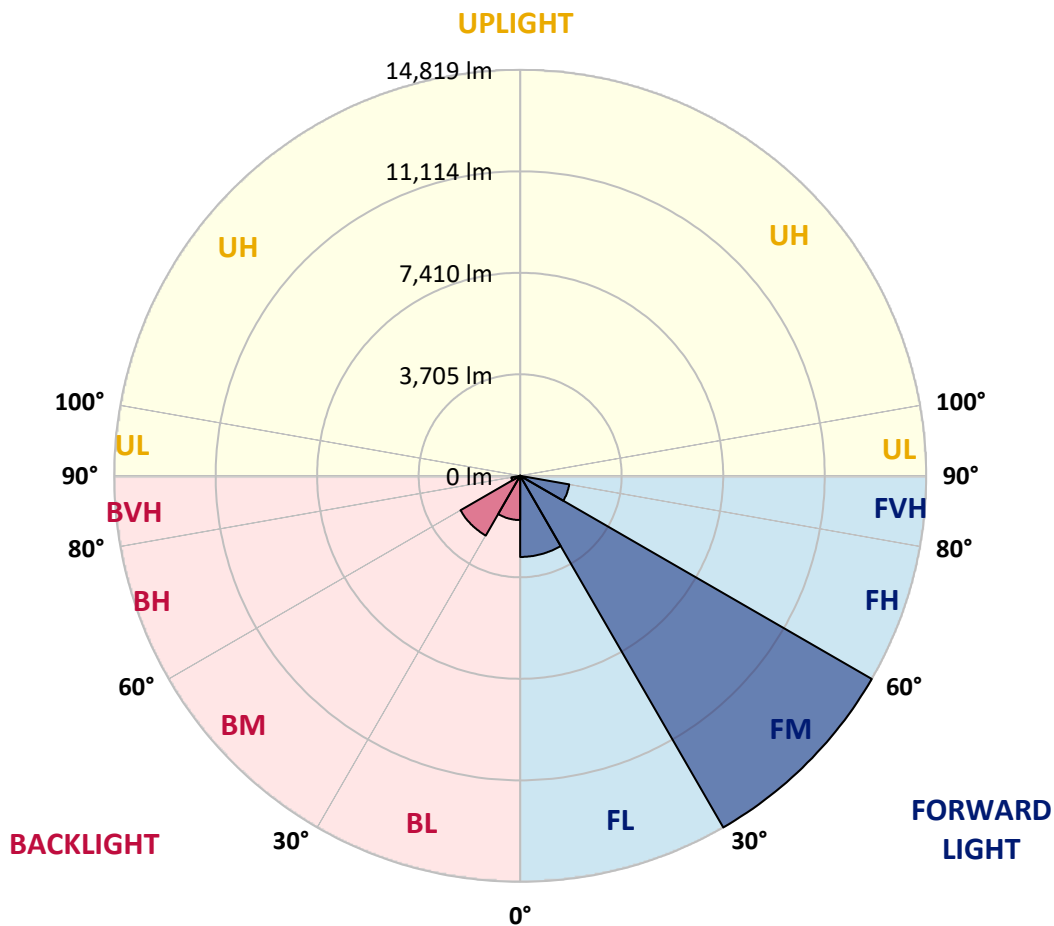
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2961.4	12.3			
FM (30°-60°)	14819.1	61.5			
FH (60°-80°)	1819.4	7.6			G2/5000
FVH (80°-90°)	15.7	0.1			G1/100
BL (0°-30°)	1614.4	6.7	B3/2500		
BM (30°-60°)	2516.9	10.4	B3/5000		
BH (60°-80°)	326.6	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°	6193.6	6193.6	6193.6	6193.6	6193.6	6193.6	6193.6	6193.6	6193.6	6193.6	6193.6
2.5°	5823.1	5879.1	5887.8	5956.7	5952.4	6068.6	6103.1	6107.4	6184.9	6146.2	6245.2
5°	5659.5	5629.3	5616.4	5737.0	5771.5	5874.8	5961.0	6012.7	6172.0	6228.0	6331.4
7.5°	5513.0	5513.0	5521.7	5629.3	5616.4	5749.9	5840.4	5999.7	6232.3	6279.7	6404.6
10°	5370.9	5319.2	5383.8	5495.8	5590.6	5650.9	5840.4	5991.1	6262.5	6400.3	6572.6
12.5°	5297.7	5323.5	5332.1	5414.0	5517.3	5698.2	5801.6	6051.4	6477.8	6559.7	6744.9
15°	5758.5	5706.9	5582.0	5508.7	5594.9	5681.0	5939.4	6193.6	6589.8	6706.1	6912.8
17.5°	6292.6	6249.5	6146.2	5948.1	5754.2	5913.6	6116.0	6348.6	6710.4	6882.7	7188.5
20°	6990.4	6921.4	6818.1	6430.4	6262.5	6090.2	6305.5	6581.2	6908.5	7063.6	7378.0
22.5°	7821.6	7821.6	7589.0	7119.6	6770.7	6607.0	6697.5	6856.8	7128.2	7339.2	7649.3
25°	8687.3	8661.5	8450.5	7963.8	7373.7	7179.9	7283.2	7395.2	7468.4	7584.7	7791.5
27.5°	9678.0	9527.2	9260.2	8721.8	8200.6	7825.9	7937.9	7838.9	7748.4	7808.7	8105.9
30°	10349.9	10444.6	10104.4	9587.5	9096.5	8678.7	8700.3	8614.1	8200.6	8286.8	8463.4
32.5°	11047.6	11107.9	10918.4	10634.1	10143.1	9656.4	9479.8	9406.6	9096.5	9135.3	8963.0
35°	11629.1	11745.4	11577.4	11452.5	11310.3	10918.4	10431.7	10668.6	10169.0	10074.2	9626.3
37.5°	12163.1	12128.7	12326.8	12197.6	12167.4	11891.8	11357.7	11405.1	11069.1	11047.6	10530.8
40°	12641.2	12649.8	12921.2	12981.5	12860.9	12369.9	11594.6	11969.3	12240.7	12266.5	11603.2
42.5°	13037.5	13153.8	13386.3	13873.0	13692.1	12873.8	11840.1	12249.3	13257.1	13416.5	12619.7
45°	13382.0	13618.9	13907.5	14342.5	14239.1	13588.8	12451.7	12826.4	14342.5	14760.3	13575.9
47.5°	13403.6	13713.7	14028.1	14674.2	14803.4	13972.1	13084.9	13739.5	15203.9	15656.2	14273.6
50°	13317.4	13481.1	14109.9	14812.0	15104.9	14596.6	13972.1	14506.2	16039.5	16323.8	14626.8
52.5°	12296.7	12421.6	13683.5	14941.2	15647.6	15303.0	15147.9	15574.3	16892.3	17103.3	14958.4
55°	10250.8	10229.3	11965.0	14290.8	15897.4	16349.6	16254.8	16405.6	17878.6	18068.1	15040.3
57.5°	7011.9	7403.8	8902.7	11900.4	14368.4	16104.1	16203.2	15953.4	16728.6	16801.8	13110.7
60°	3781.6	3945.3	5151.2	7942.2	10939.9	13123.6	13382.0	12929.8	12869.5	12662.8	9359.2
62.5°	1503.2	1585.0	2269.8	3932.3	5961.0	7976.7	8532.3	8347.1	7950.8	7408.1	4845.4
65°	715.0	766.7	1128.4	1839.1	2644.5	3325.1	3880.7	4052.9	2989.1	2691.9	1597.9
67.5°	486.7	525.5	822.6	1050.9	943.2	986.3	1283.5	1193.1	702.1	598.7	443.6
70°	370.4	396.2	659.0	715.0	422.1	297.2	331.6	310.1	288.6	292.9	288.6
72.5°	262.7	284.3	482.4	422.1	185.2	137.8	176.6	211.0	211.0	211.0	206.7
75°	159.4	180.9	280.0	163.7	73.2	73.2	112.0	142.1	150.7	155.1	146.4
77.5°	81.8	103.4	94.8	47.4	47.4	56.0	81.8	99.1	107.7	107.7	103.4
80°	17.2	17.2	17.2	25.8	47.4	60.3	81.8	90.4	103.4	103.4	94.8
82.5°	0.0	4.3	12.9	25.8	43.1	56.0	77.5	90.4	103.4	107.7	99.1
85°	0.0	4.3	8.6	17.2	30.1	34.5	30.1	25.8	25.8	25.8	25.8
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°	6193.6	6193.6	6193.6	6193.6	6193.6	6193.6	6193.6	6193.6	6193.6	6193.6	6193.6
2.5°	6253.9	6266.8	6245.2	6240.9	6223.7	6275.4	6150.5	6120.3	6197.9	6124.6	6141.9
5°	6335.7	6365.8	6327.1	6262.5	6167.7	6021.3	5896.4	5732.7	5655.2	5599.2	5590.6
7.5°	6396.0	6417.5	6378.8	6172.0	5887.8	5517.3	5241.7	5039.3	4879.9	4832.5	4755.0
10°	6641.5	6645.8	6452.0	5995.4	5439.8	4953.1	4531.0	4220.9	4061.6	3962.5	3919.4
12.5°	6805.2	6796.5	6404.6	5646.6	4905.7	4259.7	3777.3	3402.6	3256.1	3208.8	3178.6
15°	7011.9	6964.5	6292.6	5289.1	4216.6	3518.9	3083.9	2825.4	2812.5	2782.4	2812.5
17.5°	7175.6	7042.0	6128.9	4638.7	3557.6	2898.7	2614.4	2631.6	2666.1	2696.2	2700.5
20°	7442.6	7166.9	5754.2	4070.2	2946.0	2485.2	2480.9	2558.4	2644.5	2679.0	2713.4
22.5°	7645.0	7218.6	5353.7	3462.9	2446.4	2317.2	2390.4	2506.7	2571.3	2605.8	2657.5
25°	7718.3	7076.5	4819.6	2855.6	2205.2	2239.7	2351.7	2429.2	2511.0	2549.8	2528.2
27.5°	7791.5	7003.3	4182.2	2351.7	2076.0	2188.0	2282.7	2360.3	2386.1	2437.8	2472.3
30°	7968.1	6749.2	3609.3	2032.9	2011.4	2153.5	2222.4	2248.3	2317.2	2347.3	2347.3
32.5°	8110.2	6650.1	3002.0	1882.2	2002.8	2170.8	2179.4	2179.4	2188.0	2166.5	2157.8
35°	8403.1	6309.8	2459.3	1791.7	1998.5	2175.1	2196.6	2123.4	1925.3	1847.7	1826.2
37.5°	8764.9	6090.2	2058.8	1770.2	2028.6	2226.8	2261.2	1985.6	1727.1	1602.2	1580.7
40°	9204.2	5935.1	1796.0	1761.6	2097.5	2347.3	2244.0	1877.9	1541.9	1361.0	1352.4
42.5°	9716.7	5793.0	1619.5	1757.3	2183.7	2472.3	2226.8	1787.4	1352.4	1231.8	1249.0
45°	10125.9	5715.5	1498.9	1727.1	2213.8	2545.5	2239.7	1628.1	1274.9	1197.4	1206.0
47.5°	10444.6	5551.8	1399.8	1675.4	2209.5	2571.3	2123.4	1563.5	1236.1	1257.7	1279.2
50°	10453.2	5332.1	1274.9	1563.5	2144.9	2523.9	1989.9	1503.2	1227.5	1318.0	1361.0
52.5°	10336.9	5022.0	1141.4	1404.1	1994.2	2360.3	1869.3	1477.3	1188.7	1180.1	1231.8
55°	9923.5	4440.6	917.4	1137.1	1684.1	1946.8	1761.6	1429.9	1072.5	973.4	982.0
57.5°	8019.7	3182.9	676.2	814.0	1193.1	1425.6	1589.3	1408.4	964.8	827.0	831.3
60°	4966.0	1804.7	495.3	555.6	736.5	865.7	1287.8	1309.3	861.4	697.7	689.1
62.5°	2549.8	891.6	383.3	391.9	452.2	508.2	882.9	1098.3	779.6	663.3	663.3
65°	852.8	439.3	336.0	301.5	301.5	314.4	534.1	762.3	659.0	555.6	555.6
67.5°	366.1	327.3	292.9	262.7	241.2	228.3	301.5	443.6	491.0	422.1	404.9
70°	284.3	275.7	254.1	219.7	189.5	172.3	176.6	228.3	280.0	271.3	262.7
72.5°	211.0	211.0	202.4	172.3	146.4	124.9	116.3	120.6	133.5	137.8	142.1
75°	146.4	150.7	150.7	133.5	107.7	90.4	77.5	64.6	51.7	43.1	38.8
77.5°	99.1	103.4	112.0	99.1	81.8	60.3	47.4	34.5	21.5	8.6	8.6
80°	86.1	99.1	107.7	99.1	86.1	64.6	47.4	25.8	12.9	0.0	0.0
82.5°	90.4	99.1	112.0	94.8	81.8	60.3	47.4	30.1	12.9	4.3	0.0
85°	21.5	21.5	25.8	30.1	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)