

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: P531749

Luminaire Tested: **GALN-SA7A-740-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-740-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18790 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

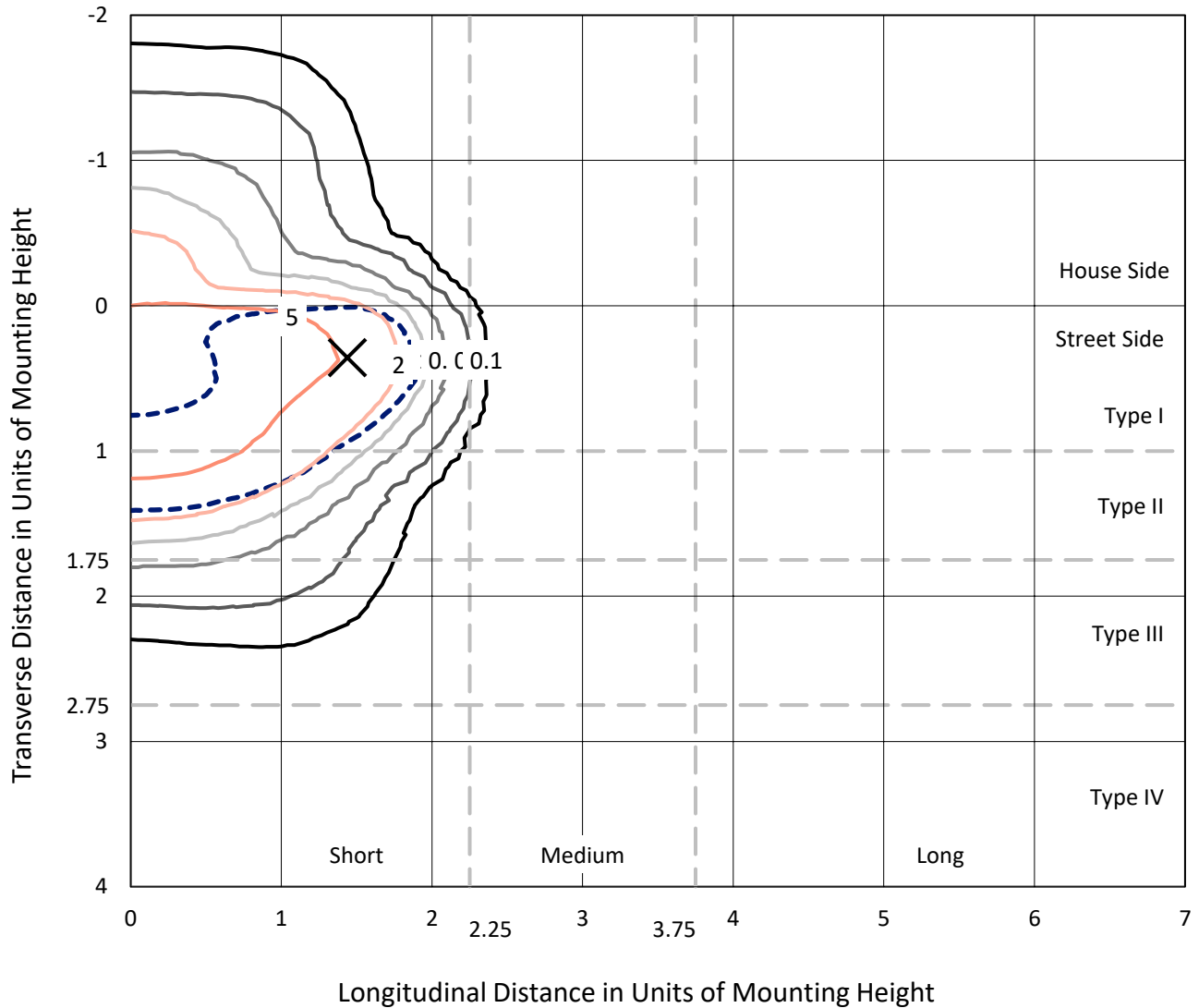
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

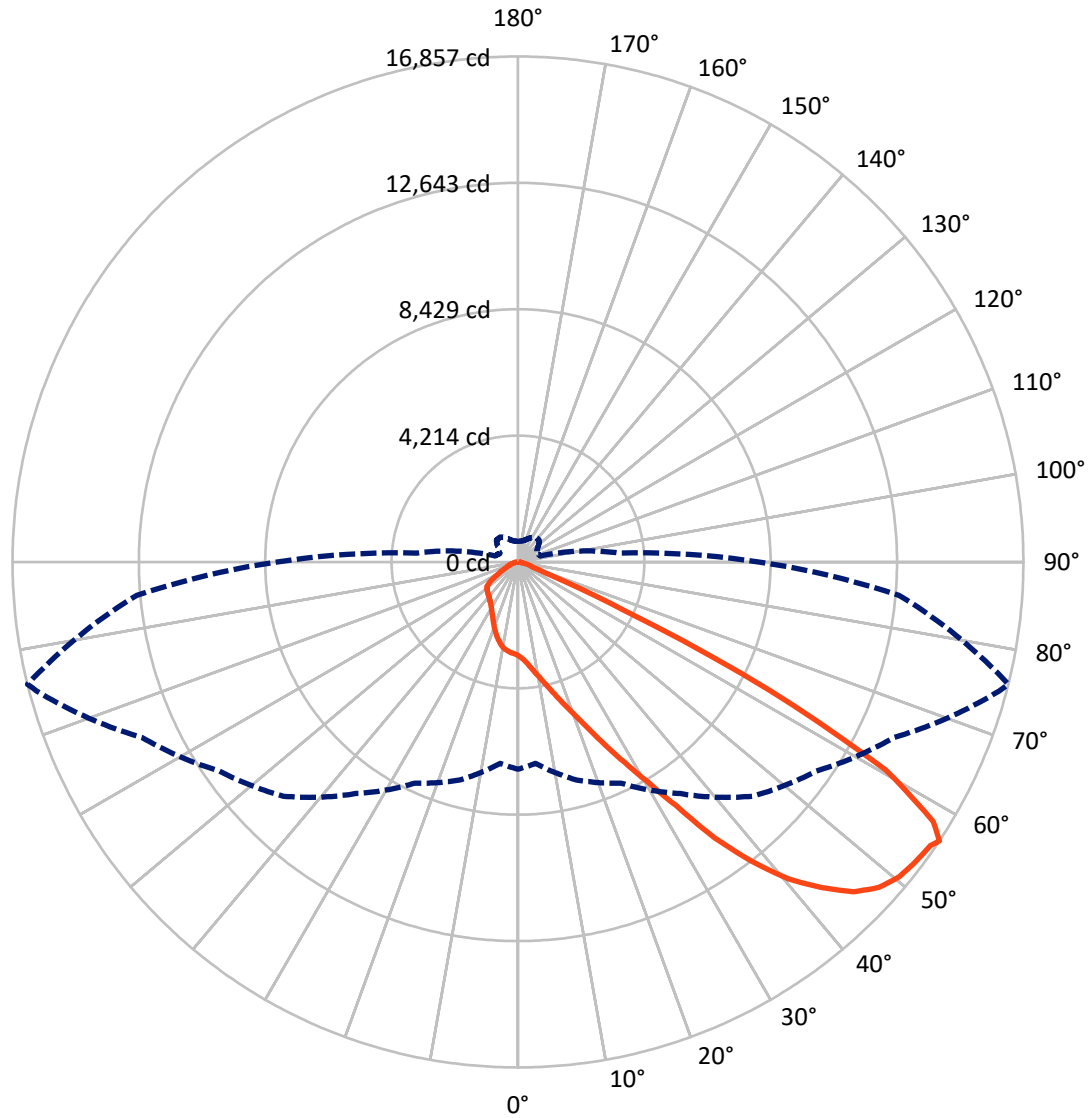
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2951.8	0.0	2951.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	15838.2	0.0	15838.2
	% Fixture	84.3	0.0	84.3
Total	Lumens	18790.0	0.0	18790.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.1	1.7
10°-20°	1012.2	5.4
20°-30°	1835.4	9.8
30°-40°	3165.2	16.8
40°-50°	5141.9	27.4
50°-60°	5419.8	28.8
60°-70°	1656.0	8.8
70°-80°	212.3	1.1
80°-90°	32.3	0.2
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°	18790.0	100.0
0°-180°	18790.0	100.0

Coefficient of Utilization

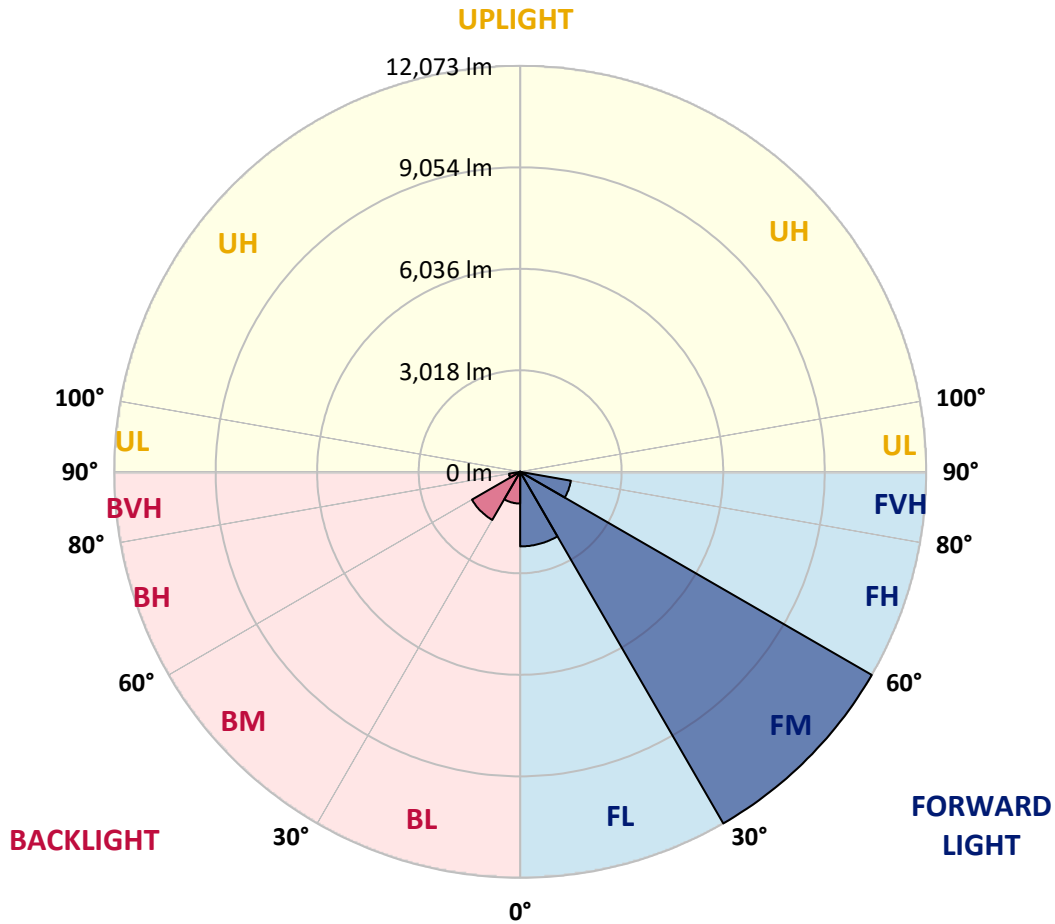


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2218.3	11.8			
FM (30°-60°)	12072.5	64.2			
FH (60°-80°)	1531.5	8.2			G1/1800
FVH (80°-90°)	15.8	0.1			G1/100
BL (0°-30°)	944.3	5.0	B2/1000		
BM (30°-60°)	1654.3	8.8	B2/2500		
BH (60°-80°)	336.8	1.8	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: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6
2.5°	3602.1	3519.0	3522.5	3515.5	3505.2	3467.1	3352.8	3335.4	3259.2	3238.5	3169.2
5°	4035.1	3962.3	4003.9	3941.6	3882.7	3848.1	3661.0	3574.4	3453.2	3408.2	3311.2
7.5°	4305.2	4270.6	4256.8	4260.2	4204.8	4118.2	4035.1	3844.6	3681.8	3647.2	3442.8
10°	4436.9	4416.1	4436.9	4426.5	4450.7	4461.1	4315.6	4201.3	3962.3	3903.5	3584.8
12.5°	4468.0	4509.6	4526.9	4571.9	4630.8	4731.3	4720.9	4565.0	4246.4	4208.3	3803.0
15°	4544.2	4578.9	4561.6	4634.3	4745.1	4914.8	5004.9	4980.6	4637.7	4568.5	4055.9
17.5°	4613.5	4551.2	4610.0	4755.5	4866.3	5126.1	5344.3	5444.8	5063.8	4984.1	4287.9
20°	4707.0	4689.7	4679.3	4752.0	4949.5	5295.8	5728.8	5912.4	5541.7	5458.6	4620.4
22.5°	4991.0	4994.5	4987.6	4880.2	5022.2	5413.6	6064.7	6518.5	6113.2	6044.0	4998.0
25°	5365.1	5320.1	5285.4	5198.9	5181.5	5521.0	6404.2	7259.7	6799.0	6750.5	5406.7
27.5°	5760.0	5760.0	5656.0	5576.4	5465.5	5787.7	6715.9	7980.1	7626.8	7561.0	5763.4
30°	6189.4	6213.7	6199.8	6030.1	5960.8	6078.6	7034.6	8901.4	8575.9	8492.7	6352.2
32.5°	6823.3	6771.3	6830.2	6688.2	6483.8	6587.8	7536.8	9725.8	9808.9	9691.1	7124.6
35°	7661.5	7630.3	7592.2	7360.1	7117.7	7200.8	8246.8	10740.6	11357.1	11298.2	7903.9
37.5°	8413.1	8395.7	8364.6	8205.2	7924.7	8025.1	9053.8	11797.0	12867.2	12673.3	9005.3
40°	9202.8	9296.3	9195.8	9053.8	8797.5	9019.2	10002.9	12423.9	14138.4	13902.9	9847.0
42.5°	10273.0	10200.3	10245.3	9985.5	9847.0	10089.4	10955.3	13050.8	15125.5	14845.0	10740.6
45°	11412.5	11416.0	11294.8	11211.6	10851.4	11114.7	11540.7	13397.2	15911.7	15693.5	11416.0
47.5°	12143.4	12139.9	12271.5	12403.1	12032.5	11772.7	11939.0	13726.2	16317.0	16216.5	11661.9
50°	12029.1	12063.7	12233.4	12725.2	12919.2	12569.4	12313.1	13629.2	16500.6	16490.2	11873.2
52.5°	10463.5	10577.8	10861.8	11571.9	12548.6	12981.5	12704.5	13809.3	16590.6	16607.9	12188.4
55°	7966.3	8028.6	8568.9	9431.4	10512.0	11994.4	12548.6	13951.3	16659.9	16691.1	12569.4
56°	6909.9	6743.6	7522.9	8136.0	9427.9	11048.9	12153.7	13840.5	16618.3	16857.3	12759.9
57.5°	5216.2	5105.3	5735.7	6501.2	7744.6	9455.6	10927.6	13317.5	16337.8	16334.3	12486.2
60°	3172.7	3061.8	3546.7	3997.0	4693.2	5822.3	7384.4	10605.5	13812.8	14103.7	10110.2
62.5°	1887.7	1956.9	2434.9	2708.5	2933.7	3051.4	3820.3	6303.7	9216.6	9424.4	6272.6
65°	1257.3	1281.5	1641.7	2092.0	2192.5	1745.7	1555.2	2552.7	3997.0	3868.8	2587.3
67.5°	775.8	831.3	1101.4	1572.5	1742.2	1274.6	737.7	952.5	1101.4	1101.4	748.1
70°	471.0	498.8	734.3	1070.2	1194.9	820.9	536.9	536.9	529.9	519.5	446.8
72.5°	225.1	242.5	374.1	550.7	561.1	432.9	415.6	453.7	443.3	439.9	370.6
75°	97.0	103.9	131.6	173.2	197.4	183.6	252.8	325.6	336.0	325.6	266.7
77.5°	31.2	34.6	48.5	62.3	65.8	79.7	107.4	135.1	155.9	145.5	131.6
80°	3.5	6.9	13.9	31.2	48.5	62.3	79.7	90.1	100.4	100.4	93.5
82.5°	3.5	3.5	13.9	27.7	45.0	58.9	76.2	86.6	100.4	103.9	97.0
85°	0.0	3.5	10.4	24.2	38.1	38.1	34.6	34.6	24.2	24.2	24.2
87.5°	0.0	0.0	3.5	3.5	3.5	6.9	6.9	6.9	6.9	6.9	6.9
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°	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6	3127.6
2.5°	3155.3	3148.4	3054.9	2996.0	2964.8	2902.5	2864.4	2836.7	2815.9	2791.7	2795.1
5°	3196.9	3172.7	3016.8	2909.4	2781.3	2712.0	2653.1	2604.6	2573.4	2566.5	2552.7
7.5°	3314.7	3186.5	2951.0	2757.0	2594.2	2525.0	2473.0	2441.8	2455.7	2424.5	2448.8
10°	3404.7	3214.2	2871.3	2590.8	2428.0	2376.0	2348.3	2372.6	2407.2	2393.3	2376.0
12.5°	3515.5	3241.9	2743.2	2431.4	2279.0	2240.9	2289.4	2334.5	2403.7	2431.4	2396.8
15°	3640.2	3273.1	2580.4	2247.9	2150.9	2182.1	2265.2	2344.9	2414.1	2448.8	2469.5
17.5°	3792.6	3262.7	2421.1	2102.4	2029.7	2119.7	2220.2	2292.9	2396.8	2448.8	2434.9
20°	3934.6	3228.1	2244.4	1956.9	1960.4	2043.5	2126.6	2244.4	2299.8	2369.1	2344.9
22.5°	4069.7	3165.7	2060.8	1856.5	1856.5	1984.6	2026.2	2102.4	2150.9	2185.5	2182.1
25°	4260.2	3048.0	1908.4	1759.5	1801.1	1884.2	1918.8	1943.1	1922.3	1950.0	1953.5
27.5°	4395.3	2926.7	1783.7	1672.9	1749.1	1811.5	1801.1	1787.2	1738.7	1700.6	1724.9
30°	4540.8	2784.7	1676.4	1614.0	1655.6	1711.0	1669.5	1627.9	1551.7	1489.3	1492.8
32.5°	4748.6	2718.9	1582.9	1544.8	1600.2	1607.1	1562.1	1499.7	1423.5	1364.7	1361.2
35°	5136.5	2677.4	1503.2	1499.7	1510.1	1513.6	1468.6	1392.4	1361.2	1312.7	1330.0
37.5°	5524.4	2656.6	1447.8	1433.9	1430.5	1433.9	1382.0	1309.2	1368.1	1364.7	1371.6
40°	6019.7	2750.1	1368.1	1350.8	1354.3	1354.3	1288.5	1267.7	1371.6	1382.0	1385.4
42.5°	6521.9	2867.9	1316.2	1260.7	1274.6	1274.6	1240.0	1215.7	1288.5	1219.2	1208.8
45°	6958.4	3041.0	1260.7	1170.7	1205.3	1222.6	1212.3	1170.7	1125.7	1007.9	1007.9
47.5°	7100.4	3193.4	1194.9	1084.1	1111.8	1188.0	1156.8	1070.2	990.6	893.6	886.7
50°	7349.7	3359.7	1143.0	983.7	1042.5	1136.1	1104.9	1018.3	928.2	859.0	862.4
52.5°	7606.0	3550.2	1046.0	865.9	938.6	1094.5	1094.5	997.5	859.0	810.5	803.6
55°	7990.5	3543.3	872.8	710.0	838.2	1032.2	1049.5	893.6	768.9	730.8	730.8
56°	8045.9	3383.9	786.2	665.0	793.2	1014.8	1018.3	865.9	734.3	692.7	692.7
57.5°	7630.3	3054.9	689.3	609.6	737.7	983.7	987.1	841.7	706.6	647.7	640.8
60°	5870.8	2067.8	575.0	543.8	668.5	886.7	904.0	765.5	620.0	575.0	571.5
62.5°	3314.7	1146.4	505.7	491.8	575.0	755.1	807.0	668.5	526.5	502.2	509.1
65°	1513.6	630.4	426.0	398.3	464.1	581.9	651.2	550.7	432.9	405.2	405.2
67.5°	554.2	429.5	363.7	315.2	325.6	377.5	422.6	356.7	287.5	245.9	256.3
70°	394.8	360.2	318.7	273.6	252.8	245.9	242.5	200.9	142.0	110.8	117.8
72.5°	318.7	297.9	266.7	232.1	197.4	166.3	142.0	103.9	65.8	45.0	41.6
75°	228.6	218.2	194.0	166.3	138.5	117.8	97.0	65.8	34.6	17.3	17.3
77.5°	117.8	117.8	114.3	103.9	86.6	69.3	55.4	38.1	20.8	6.9	6.9
80°	90.1	97.0	100.4	90.1	79.7	62.3	45.0	27.7	13.9	3.5	3.5
82.5°	86.6	100.4	107.4	93.5	79.7	58.9	45.0	27.7	13.9	3.5	3.5
85°	20.8	20.8	31.2	34.6	45.0	48.5	38.1	24.2	10.4	3.5	3.5
87.5°	6.9	6.9	6.9	6.9	6.9	6.9	3.5	3.5	3.5	3.5	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)