

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: P527006

Luminaire Tested: **GALN-SA2A-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-730-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7557 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

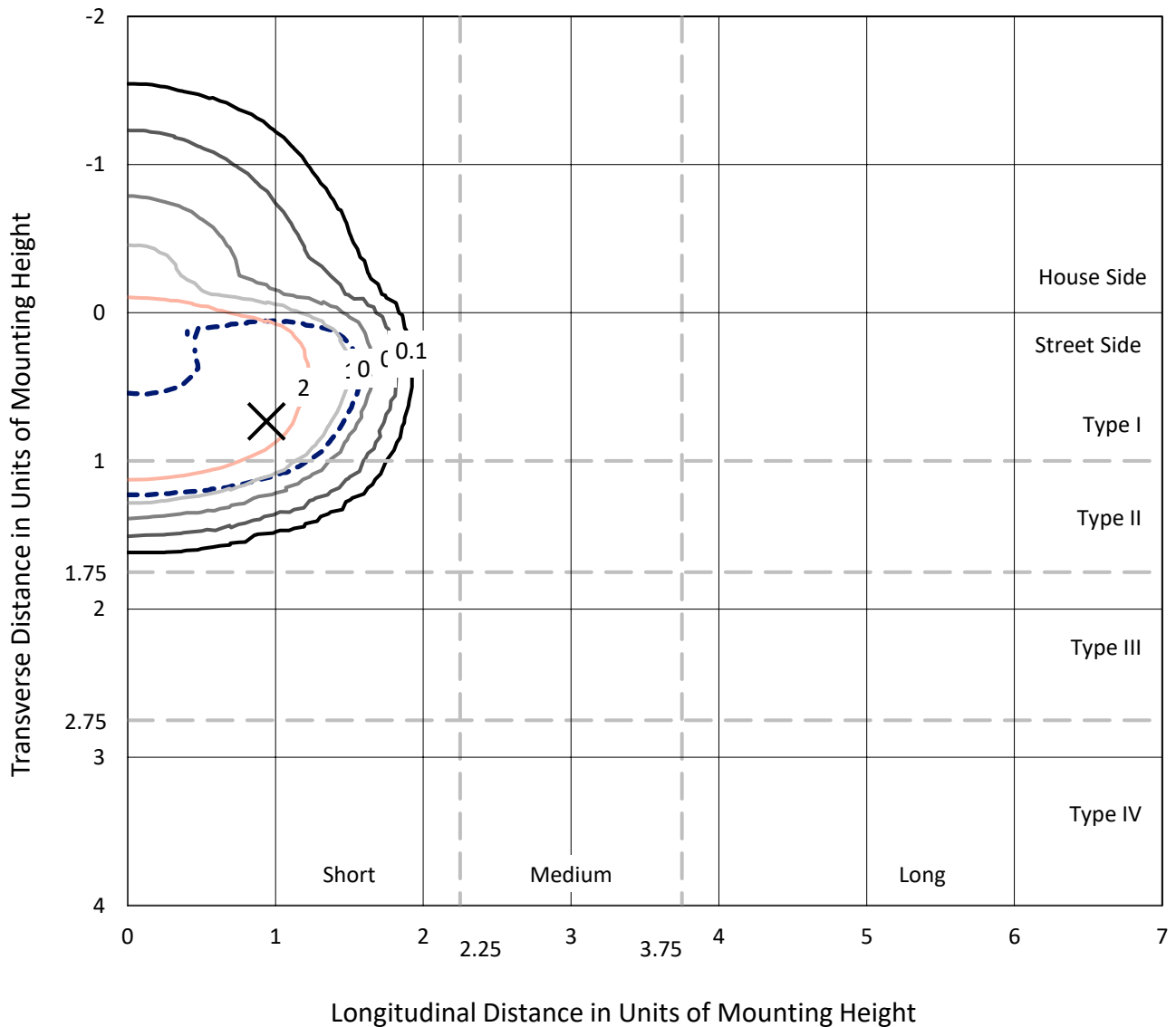
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

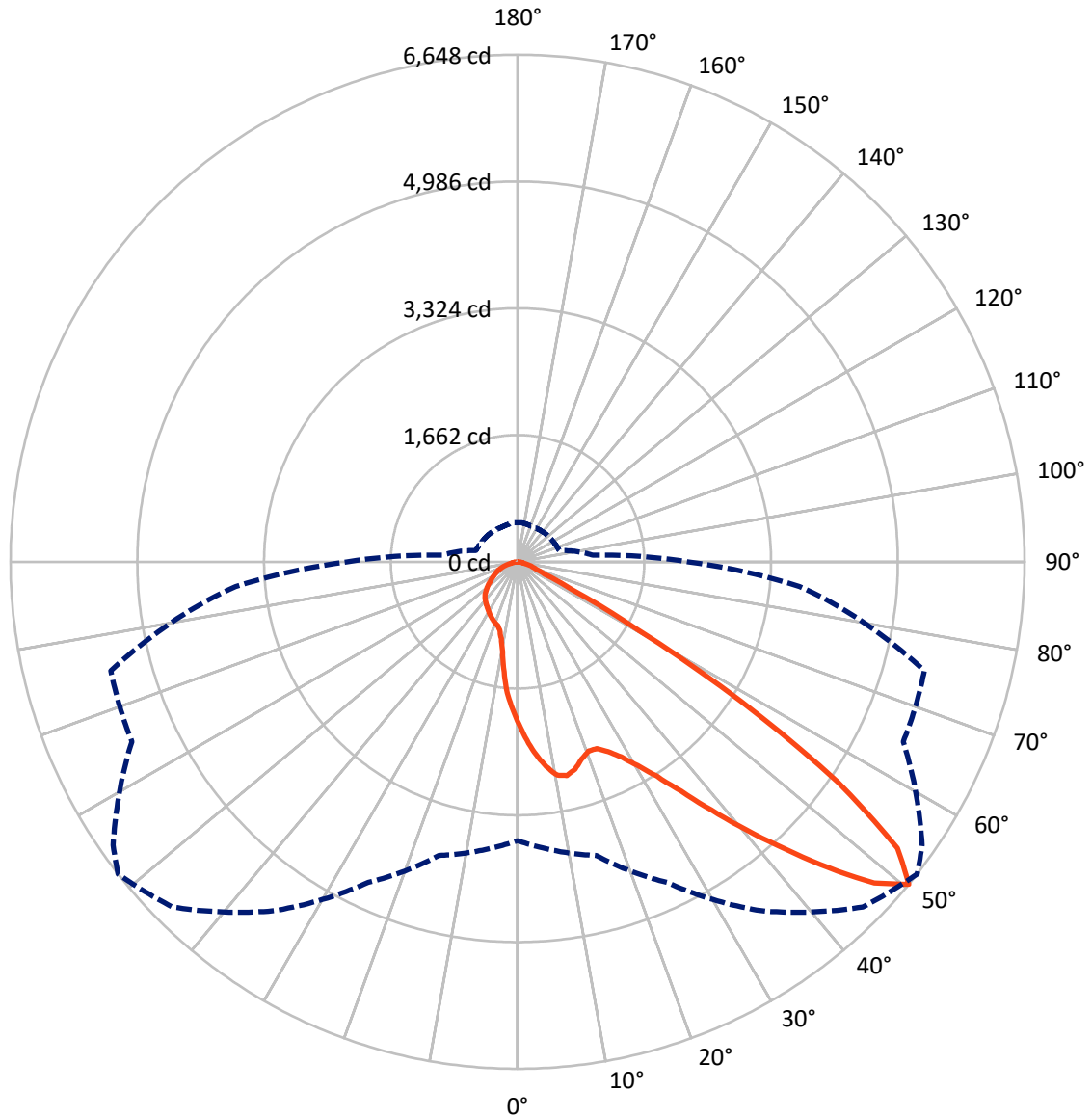
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1420.5	0.0	1420.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	6136.5	0.0	6136.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	7557.0	0.0	7557.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.3	2.6
10°-20°	526.2	7.0
20°-30°	886.4	11.7
30°-40°	1487.5	19.7
40°-50°	2275.5	30.1
50°-60°	1659.0	22.0
60°-70°	369.2	4.9
70°-80°	133.2	1.8
80°-90°	23.6	0.3
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°	7557.0	100.0
0°-180°	7557.0	100.0

Coefficient of Utilization

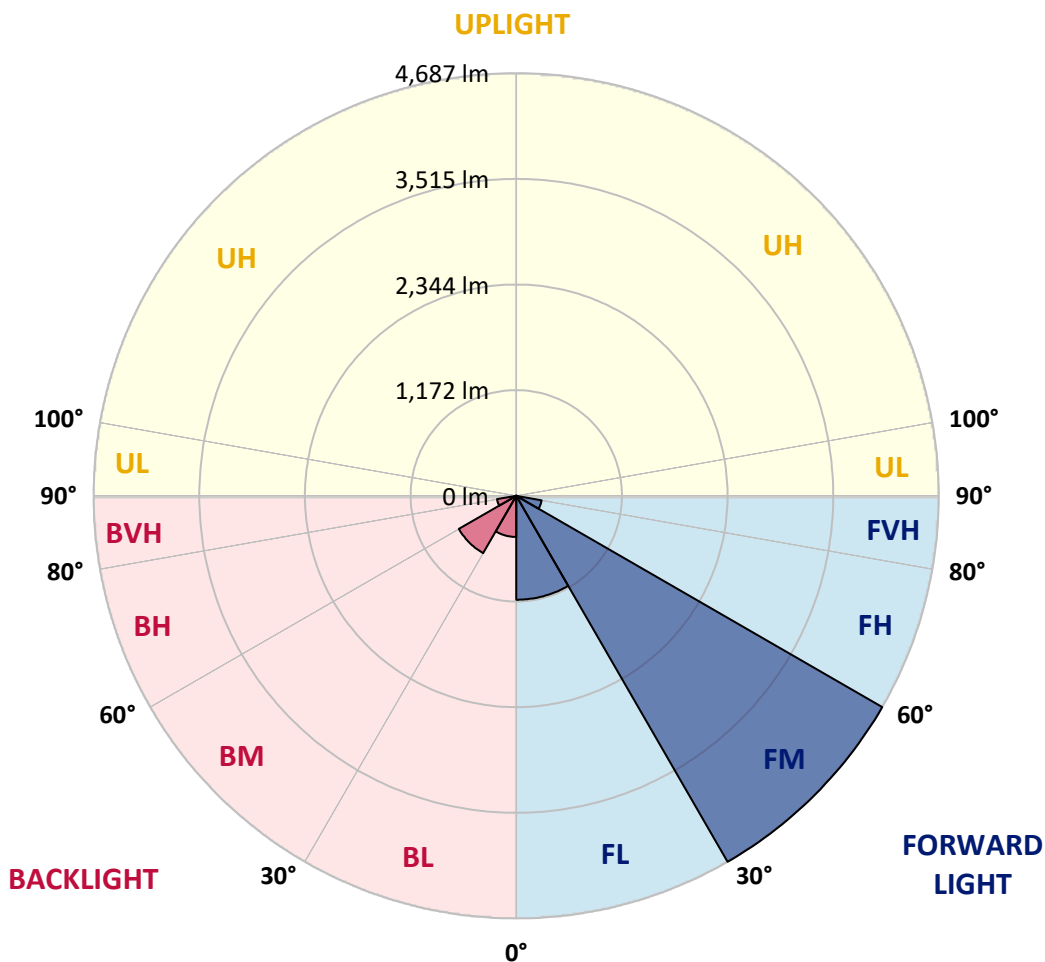


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1152.7	15.3			
FM (30°-60°)	4687.2	62.0			
FH (60°-80°)	286.0	3.8			G0/660
FVH (80°-90°)	10.6	0.1			G1/100
BL (0°-30°)	456.3	6.0	B1/500		
BM (30°-60°)	734.8	9.7	B1/1000		
BH (60°-80°)	216.4	2.9	B1/500		G1/500
BVH (80°-90°)	13.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2130.2	2130.2	2130.2	2130.2	2130.2	2130.2	2130.2	2130.2	2130.2	2130.2	2130.2
2.5°	2508.1	2459.9	2465.3	2430.7	2393.4	2382.5	2344.2	2307.8	2280.5	2222.2	2168.4
5°	2741.3	2726.7	2704.9	2677.5	2649.3	2580.1	2540.9	2495.4	2395.2	2305.1	2215.8
7.5°	2775.0	2772.3	2784.1	2784.1	2794.1	2767.7	2712.1	2680.3	2573.7	2427.1	2261.3
10°	2538.2	2546.4	2603.8	2678.5	2782.3	2854.2	2845.1	2836.9	2720.3	2520.0	2315.1
12.5°	2349.7	2331.5	2365.2	2428.9	2584.6	2758.6	2876.1	2877.0	2846.9	2668.4	2354.2
15°	2243.1	2255.9	2265.0	2295.0	2412.5	2613.8	2820.5	2881.5	3013.6	2773.2	2416.2
17.5°	2311.4	2268.6	2266.8	2274.1	2334.2	2485.4	2717.6	2822.3	3104.7	2908.0	2492.7
20°	2400.7	2399.8	2374.3	2365.2	2364.3	2499.0	2650.2	2792.3	3152.9	3082.8	2570.1
22.5°	2557.3	2557.3	2515.4	2495.4	2452.6	2562.8	2659.3	2755.9	3233.1	3203.0	2607.4
25°	2819.6	2776.8	2704.9	2655.7	2631.1	2670.3	2755.9	2842.4	3303.2	3330.5	2684.8
27.5°	3061.9	2994.5	2959.0	2874.3	2841.5	2818.7	2897.0	2984.5	3385.2	3529.1	2726.7
30°	3336.9	3325.1	3261.3	3152.0	3071.0	3029.1	3101.0	3187.5	3535.4	3732.2	2823.3
32.5°	3828.7	3721.2	3634.7	3500.8	3368.8	3279.5	3350.6	3407.9	3785.0	3944.4	2928.9
35°	4359.7	4325.0	4175.7	3934.3	3732.2	3652.0	3693.9	3736.7	4075.5	4268.6	3106.5
37.5°	4881.5	4834.1	4711.2	4508.1	4262.2	4099.2	4129.2	4179.3	4401.5	4705.7	3323.2
40°	5256.7	5198.4	5136.5	5106.5	4862.4	4639.2	4621.9	4634.7	4842.3	5115.6	3563.7
42.5°	5284.0	5356.0	5375.1	5496.2	5438.9	5255.8	5149.3	5152.0	5263.1	5520.8	3806.8
45°	5226.7	5160.2	5301.3	5631.9	5821.4	5907.0	5727.6	5704.8	5523.6	5755.8	3928.0
47.5°	4624.7	4642.9	4881.5	5404.3	5951.6	6334.1	6292.2	6216.6	5662.9	5747.6	3908.8
50°	3655.7	3765.9	3987.2	4638.3	5587.3	6401.5	6648.3	6473.5	5580.0	5521.7	3713.9
52.5°	2434.4	2479.9	2625.6	3466.2	4492.6	5722.1	6238.5	6278.6	5503.5	5225.8	3467.1
55°	1083.8	1080.1	1285.0	1810.5	2818.7	4354.2	5097.3	5341.4	5209.4	4924.3	3226.7
57.5°	459.0	474.5	558.3	782.3	1386.1	2627.5	3453.5	3667.5	4006.3	4043.6	2475.4
60°	310.6	312.4	335.1	391.6	580.1	1234.0	1811.4	2068.3	2310.5	2294.1	1313.3
62.5°	244.1	250.5	267.8	290.5	344.3	560.1	810.5	953.5	969.0	815.1	498.2
65°	208.6	209.5	226.8	245.9	269.6	326.0	390.7	398.0	402.5	388.0	366.1
67.5°	172.1	173.9	187.6	209.5	231.3	249.5	267.8	276.9	297.8	338.8	333.3
70°	136.6	139.3	151.2	169.4	189.4	200.4	223.1	231.3	250.5	282.3	295.1
72.5°	103.8	104.7	114.8	127.5	145.7	156.6	175.8	184.9	197.6	224.9	236.8
75°	74.7	77.4	84.7	91.1	93.8	101.1	119.3	129.3	147.5	159.4	160.3
77.5°	39.2	41.0	42.8	42.8	51.9	65.6	77.4	82.9	95.6	104.7	100.2
80°	15.5	16.4	20.9	28.2	36.4	47.4	55.6	58.3	69.2	74.7	77.4
82.5°	9.1	10.0	13.7	20.0	26.4	33.7	40.1	42.8	50.1	56.5	58.3
85°	4.6	5.5	8.2	12.8	17.3	20.9	20.0	19.1	19.1	18.2	19.1
87.5°	1.8	1.8	2.7	2.7	2.7	3.6	4.6	4.6	4.6	5.5	5.5
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°	2130.2	2130.2	2130.2	2130.2	2130.2	2130.2	2130.2	2130.2	2130.2	2130.2	2130.2
2.5°	2132.9	2096.5	2062.8	2000.9	1933.5	1914.4	1836.0	1807.8	1787.8	1764.1	1756.8
5°	2143.9	2095.6	1987.2	1862.4	1763.2	1635.7	1551.9	1461.7	1396.1	1379.8	1375.2
7.5°	2166.6	2083.7	1897.0	1708.5	1505.4	1332.4	1200.3	1129.3	1066.5	1062.8	1056.4
10°	2192.1	2048.2	1798.7	1502.7	1243.1	1082.9	1003.6	972.7	957.2	953.5	951.7
12.5°	2213.1	2040.9	1688.5	1302.3	1057.4	960.8	937.1	934.4	940.8	942.6	946.2
15°	2222.2	2011.8	1555.5	1122.9	941.7	906.2	916.2	927.1	931.7	943.5	934.4
17.5°	2239.5	1974.5	1391.6	980.9	877.0	883.4	900.7	913.5	920.7	928.9	917.1
20°	2248.6	1940.8	1237.7	896.2	854.3	866.1	889.8	899.8	908.9	912.5	898.9
22.5°	2240.4	1871.5	1102.0	827.9	832.4	847.9	868.8	879.8	874.3	859.7	851.5
25°	2218.5	1774.1	960.8	784.1	801.4	828.8	845.2	837.0	826.9	818.7	816.0
27.5°	2217.6	1654.8	858.8	744.1	775.0	812.4	806.9	799.6	804.2	797.8	790.5
30°	2222.2	1539.1	775.0	721.3	755.9	774.1	780.5	773.2	778.7	766.8	770.5
32.5°	2198.5	1426.2	720.4	694.9	733.1	732.2	753.2	758.6	745.9	721.3	724.9
35°	2208.5	1335.1	673.9	683.0	707.6	707.6	724.0	717.7	684.0	669.4	673.0
37.5°	2277.7	1245.9	651.2	666.7	683.0	690.3	684.9	657.5	649.3	649.3	651.2
40°	2343.3	1169.4	637.5	663.0	660.3	664.8	624.8	627.5	627.5	628.4	623.8
42.5°	2401.6	1117.5	626.6	641.2	645.7	622.0	597.4	594.7	601.1	600.2	596.5
45°	2422.5	1074.7	611.1	616.6	620.2	581.0	569.2	563.7	571.0	573.8	577.4
47.5°	2342.4	1039.1	593.8	582.9	575.6	550.1	534.6	524.6	533.7	549.2	552.8
50°	2239.5	992.7	566.5	545.5	530.0	519.1	508.2	498.2	504.5	515.5	512.7
52.5°	2087.4	919.8	531.9	510.0	483.6	486.3	476.3	470.8	474.5	474.5	471.8
55°	1870.6	755.9	473.6	458.1	436.2	443.5	445.3	438.1	430.8	437.1	431.7
57.5°	1276.8	533.7	422.6	422.6	400.7	410.7	409.8	392.5	375.2	377.0	373.4
60°	738.6	425.3	389.8	386.1	363.4	371.6	373.4	361.6	335.1	337.0	333.3
62.5°	419.8	363.4	340.6	335.1	330.6	337.9	337.9	322.4	299.6	301.5	297.8
65°	357.0	337.0	304.2	303.3	301.5	303.3	296.0	279.6	259.6	251.4	252.3
67.5°	324.2	311.5	279.6	271.4	265.9	265.0	251.4	235.9	226.8	219.5	218.6
70°	284.1	274.1	250.5	239.5	234.1	221.3	207.6	197.6	184.9	181.2	184.9
72.5°	224.9	224.0	214.9	203.1	191.3	181.2	169.4	155.7	143.9	141.2	134.8
75°	155.7	157.6	159.4	157.6	147.5	134.8	121.1	110.2	95.6	87.4	85.6
77.5°	102.0	104.7	107.5	103.8	97.4	85.6	76.5	62.8	51.9	45.5	44.6
80°	74.7	78.3	80.1	77.4	70.1	61.0	51.0	40.1	31.9	26.4	26.4
82.5°	57.4	61.0	62.8	58.3	51.0	43.7	36.4	28.2	21.9	17.3	16.4
85°	20.0	19.1	22.8	23.7	28.2	26.4	21.9	16.4	12.8	9.1	8.2
87.5°	5.5	5.5	6.4	6.4	5.5	4.6	4.6	4.6	3.6	2.7	2.7
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)