

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: P530321

Luminaire Tested: **GALN-SA5C-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-735-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21691 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

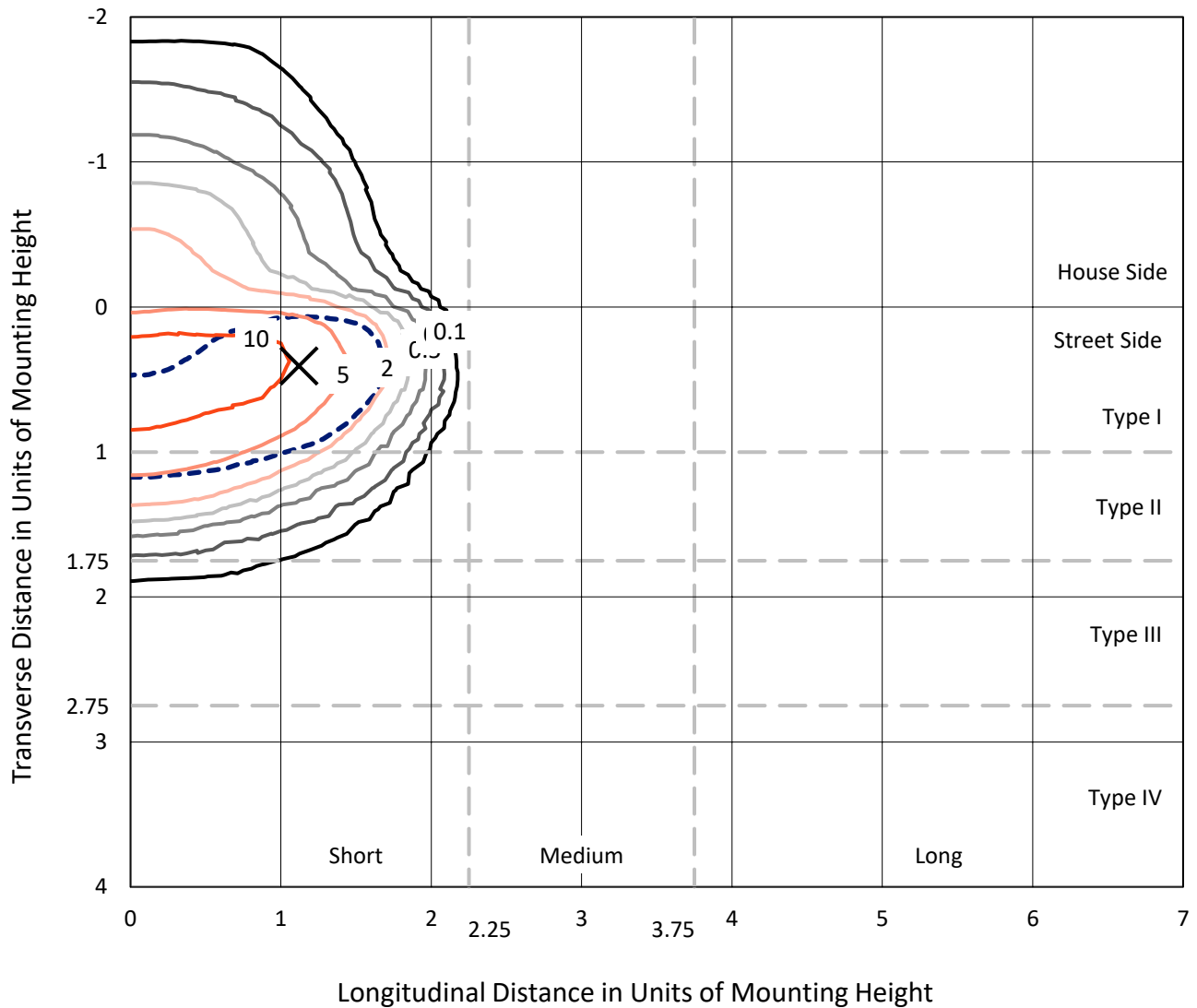
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

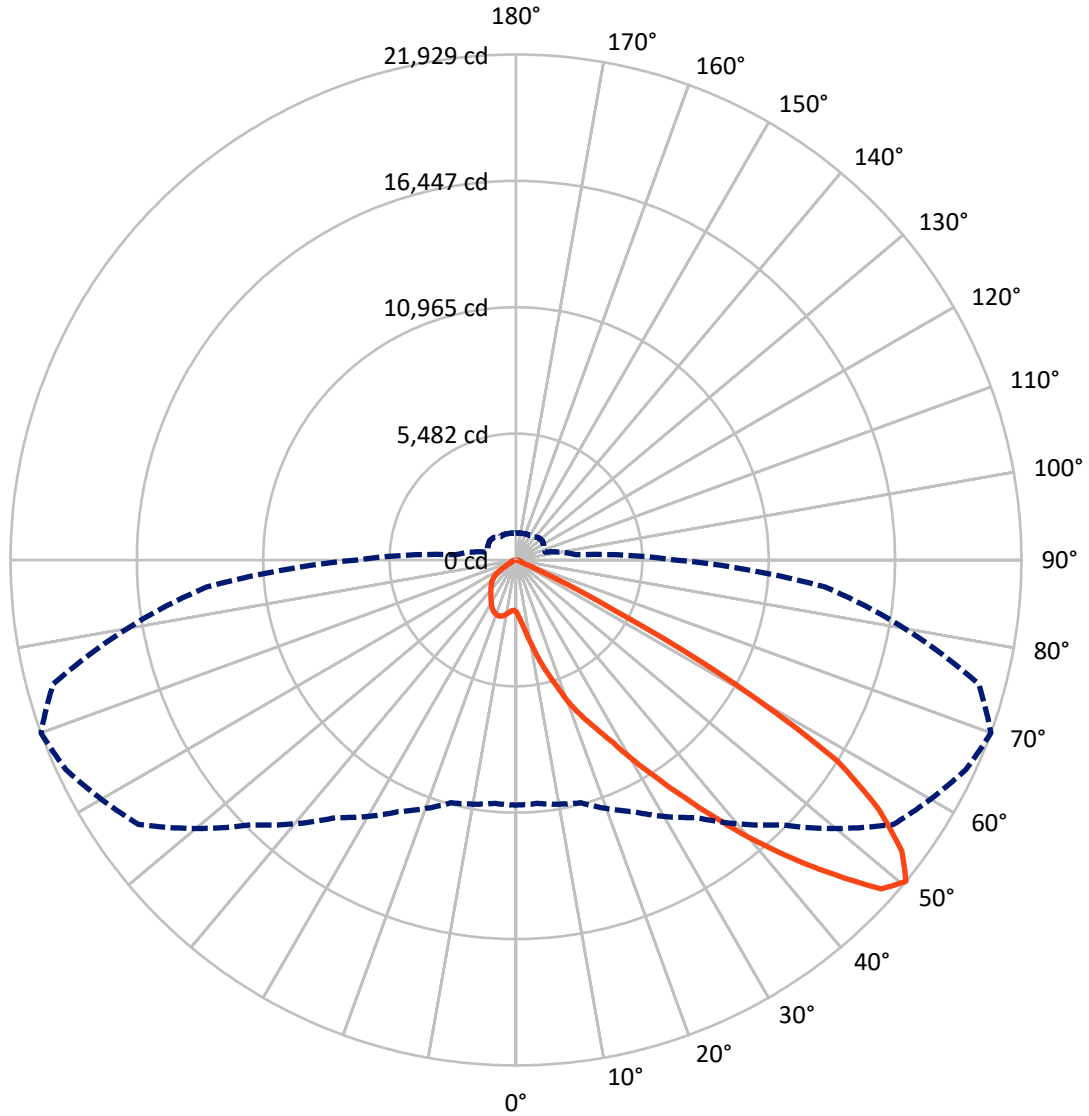
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3029.3	0.0	3029.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	18661.7	0.0	18661.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	21691.0	0.0	21691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.2	1.3
10°-20°	1263.8	5.8
20°-30°	2651.2	12.2
30°-40°	4569.8	21.1
40°-50°	6678.7	30.8
50°-60°	5201.6	24.0
60°-70°	881.3	4.1
70°-80°	121.1	0.6
80°-90°	31.4	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°	21691.0	100.0
0°-180°	21691.0	100.0

Coefficient of Utilization



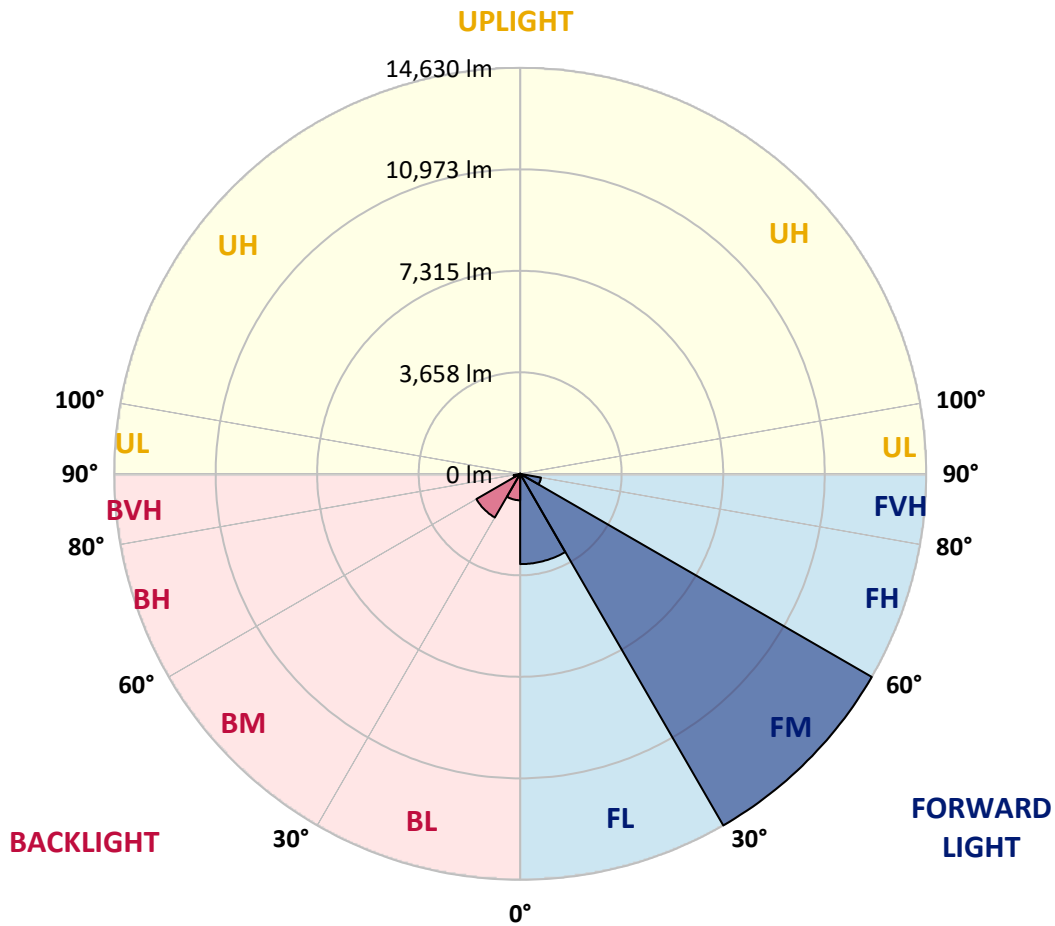
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3253.9	15.0			
FM (30°-60°)	14630.2	67.4			
FH (60°-80°)	763.1	3.5			G1/1800
FVH (80°-90°)	14.5	0.1			G1/100
BL (0°-30°)	953.2	4.4	B2/1000		
BM (30°-60°)	1819.9	8.4	B2/2500		
BH (60°-80°)	239.3	1.1	B1/500		G1/500
BVH (80°-90°)	16.9	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2246.8	2246.8	2246.8	2246.8	2246.8	2246.8	2246.8	2246.8	2246.8	2246.8	2246.8
2.5°	2942.2	2920.8	2874.4	2788.8	2753.2	2667.6	2617.7	2521.4	2460.7	2393.0	2318.1
5°	4144.0	4033.5	3965.7	3869.4	3587.7	3412.9	3124.1	2878.0	2763.9	2639.1	2467.9
7.5°	5385.1	5313.8	5221.0	5014.2	4821.6	4457.9	3962.1	3420.1	3188.3	2974.3	2635.5
10°	6412.2	6212.5	6201.8	6048.4	5838.0	5402.9	4807.4	4133.3	3719.6	3405.8	2874.4
12.5°	7129.0	6947.1	7029.2	7011.3	6815.2	6415.7	5727.5	4835.9	4404.4	3915.8	3120.5
15°	7781.6	7706.7	7681.8	7660.4	7581.9	7285.9	6669.0	5691.8	5067.7	4479.3	3398.7
17.5°	8420.0	8227.4	8320.1	8338.0	8330.8	8063.4	7485.6	6504.9	5770.3	5074.8	3691.1
20°	8987.0	9004.9	8880.1	8855.1	8833.7	8823.0	8259.5	7310.9	6633.3	5698.9	4072.7
22.5°	9714.6	9589.7	9700.3	9629.0	9489.9	9404.3	8972.8	8024.1	7382.2	6451.4	4461.4
25°	10574.0	10673.9	10413.6	10385.0	10231.7	9935.7	9546.9	8823.0	8102.6	7150.4	4882.2
27.5°	11633.2	11458.5	11390.7	11233.8	10955.6	10830.8	10374.3	9646.8	8972.8	7885.1	5288.8
30°	12542.6	12496.3	12157.5	11972.0	11729.5	11725.9	11087.6	10763.1	10106.9	9037.0	5848.7
32.5°	13284.4	13081.1	12956.3	12827.9	12631.8	12685.3	12146.8	11975.6	11315.8	10106.9	6508.5
35°	13780.1	13633.9	13559.0	13362.9	13305.8	13544.8	13320.1	13248.8	12706.7	11611.8	7282.4
37.5°	13937.0	13983.4	13969.1	13723.1	13844.3	14489.8	14778.7	14593.2	14307.9	13198.8	8120.4
40°	14076.1	14108.2	14036.9	14325.8	14671.7	15406.4	16451.3	16144.6	16037.6	14807.2	9286.6
42.5°	14154.6	14129.6	14129.6	14628.9	15153.2	16629.6	18066.8	17863.5	17781.5	16519.0	10634.7
45°	13815.8	13573.3	13833.6	14511.2	15566.8	17232.3	19357.8	19639.5	19521.9	18555.4	12211.0
47.5°	12549.8	12699.5	12845.8	13751.6	15064.0	17046.8	20149.5	21108.8	21326.4	20267.2	13245.2
50°	10634.7	10602.6	10905.7	12046.9	13641.0	16248.0	19996.2	21533.2	21929.1	20780.8	13462.7
52.5°	7735.3	7970.7	8298.7	9432.8	11323.0	14179.6	18016.9	20438.4	20966.2	20149.5	13320.1
55°	4504.2	4243.9	4982.1	5941.4	7724.6	10695.3	15231.6	18116.7	19093.9	19001.2	12599.7
57.5°	1804.5	1747.5	2000.7	2696.1	4029.9	6629.7	11076.9	14885.7	16451.3	17403.5	11073.3
60°	791.7	773.9	909.4	1098.4	1647.6	3056.3	6059.1	9258.1	10891.4	12161.0	7621.2
62.5°	570.6	563.5	631.2	699.0	870.2	1330.2	2546.3	3730.3	4650.4	5616.9	3412.9
65°	460.1	477.9	524.2	559.9	641.9	738.2	898.7	1037.8	1273.2	1319.5	752.5
67.5°	374.5	388.7	431.5	470.7	485.0	399.4	413.7	363.8	363.8	324.5	260.3
70°	274.6	278.2	328.1	374.5	299.6	160.5	281.7	281.7	253.2	242.5	221.1
72.5°	203.3	206.8	246.1	231.8	117.7	99.9	206.8	228.2	206.8	196.1	178.3
75°	149.8	153.4	128.4	53.5	49.9	64.2	121.3	156.9	149.8	146.2	135.5
77.5°	28.5	21.4	17.8	25.0	35.7	53.5	78.5	96.3	99.9	107.0	99.9
80°	3.6	3.6	10.7	21.4	39.2	57.1	82.0	92.7	96.3	99.9	92.7
82.5°	0.0	3.6	10.7	21.4	39.2	53.5	71.3	82.0	89.2	92.7	89.2
85°	0.0	3.6	7.1	17.8	32.1	39.2	35.7	25.0	21.4	25.0	17.8
87.5°	0.0	0.0	3.6	3.6	7.1	7.1	7.1	7.1	7.1	7.1	7.1
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°	2246.8	2246.8	2246.8	2246.8	2246.8	2246.8	2246.8	2246.8	2246.8	2246.8	2246.8
2.5°	2275.3	2261.0	2211.1	2157.6	2111.2	2132.6	2111.2	2093.4	2100.5	2093.4	2086.3
5°	2400.1	2335.9	2228.9	2182.6	2143.3	2139.8	2129.1	2125.5	2129.1	2129.1	2097.0
7.5°	2517.8	2414.4	2300.3	2250.3	2204.0	2207.5	2182.6	2182.6	2179.0	2161.2	2154.0
10°	2696.1	2557.0	2410.8	2321.7	2264.6	2253.9	2228.9	2204.0	2204.0	2204.0	2168.3
12.5°	2892.3	2717.5	2517.8	2414.4	2346.6	2293.1	2253.9	2246.8	2207.5	2200.4	2182.6
15°	3063.4	2842.3	2589.1	2446.5	2360.9	2289.6	2228.9	2189.7	2171.9	2161.2	2146.9
17.5°	3231.1	2949.3	2628.4	2446.5	2353.7	2271.7	2207.5	2171.9	2129.1	2136.2	2107.7
20°	3455.7	3063.4	2639.1	2400.1	2286.0	2207.5	2121.9	2104.1	2079.1	2057.7	2064.9
22.5°	3673.3	3145.5	2607.0	2343.1	2179.0	2086.3	2043.5	2022.1	2011.4	1993.6	1968.6
25°	3869.4	3234.6	2557.0	2239.6	2064.9	1997.1	1957.9	1954.3	1929.4	1929.4	1883.0
27.5°	4069.1	3266.7	2471.4	2118.4	1965.0	1925.8	1908.0	1900.8	1890.1	1865.2	1833.1
30°	4297.4	3277.4	2346.6	1993.6	1875.9	1833.1	1858.0	1875.9	1829.5	1783.1	1797.4
32.5°	4486.4	3252.5	2196.8	1875.9	1811.7	1790.3	1840.2	1858.0	1804.5	1754.6	1729.6
35°	4714.6	3191.8	2050.6	1783.1	1747.5	1790.3	1833.1	1833.1	1726.1	1665.5	1651.2
37.5°	5060.6	3124.1	1915.1	1704.7	1679.7	1768.9	1825.9	1786.7	1619.1	1544.2	1526.4
40°	5431.5	3081.3	1783.1	1626.2	1644.1	1733.2	1765.3	1644.1	1472.9	1426.5	1412.2
42.5°	5970.0	2995.7	1665.5	1558.5	1612.0	1683.3	1683.3	1465.7	1401.6	1376.6	1373.0
45°	6640.4	2935.1	1562.0	1501.4	1565.6	1583.4	1526.4	1373.0	1326.7	1319.5	1323.1
47.5°	6968.5	2817.4	1455.0	1433.6	1480.0	1483.6	1333.8	1298.1	1258.9	1248.2	1241.1
50°	6918.6	2607.0	1316.0	1344.5	1408.7	1373.0	1216.1	1223.2	1187.6	1184.0	1166.2
52.5°	6569.1	2275.3	1176.9	1244.6	1316.0	1212.5	1119.8	1112.7	1112.7	1066.3	1048.5
55°	5823.7	1833.1	1009.3	1094.8	1180.4	1020.0	995.0	987.9	970.0	927.2	916.5
57.5°	4611.2	1344.5	759.6	852.3	1002.1	866.6	863.0	830.9	784.6	752.5	752.5
60°	2742.5	773.9	477.9	520.7	663.3	702.6	781.0	766.8	688.3	638.4	624.1
62.5°	1251.8	399.4	303.1	310.3	356.6	456.5	613.4	709.7	599.1	513.5	506.4
65°	420.8	296.0	249.6	238.9	246.1	274.6	367.3	502.8	477.9	395.9	381.6
67.5°	256.8	263.9	235.4	217.5	217.5	214.0	210.4	228.2	281.7	274.6	278.2
70°	221.1	242.5	217.5	196.1	189.0	178.3	149.8	124.8	107.0	124.8	132.0
72.5°	178.3	192.6	185.4	167.6	149.8	135.5	107.0	82.0	60.6	53.5	53.5
75°	132.0	142.7	149.8	128.4	114.1	96.3	78.5	53.5	32.1	21.4	21.4
77.5°	96.3	107.0	110.6	99.9	85.6	67.8	49.9	35.7	17.8	7.1	7.1
80°	82.0	96.3	107.0	99.9	89.2	64.2	46.4	25.0	14.3	3.6	3.6
82.5°	78.5	96.3	107.0	96.3	85.6	60.6	46.4	28.5	10.7	3.6	3.6
85°	17.8	25.0	32.1	39.2	46.4	46.4	35.7	21.4	10.7	3.6	3.6
87.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	3.6	3.6	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)