

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: P532141

Luminaire Tested: **GALN-SA7C-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532141
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-SA7C-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 27085 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

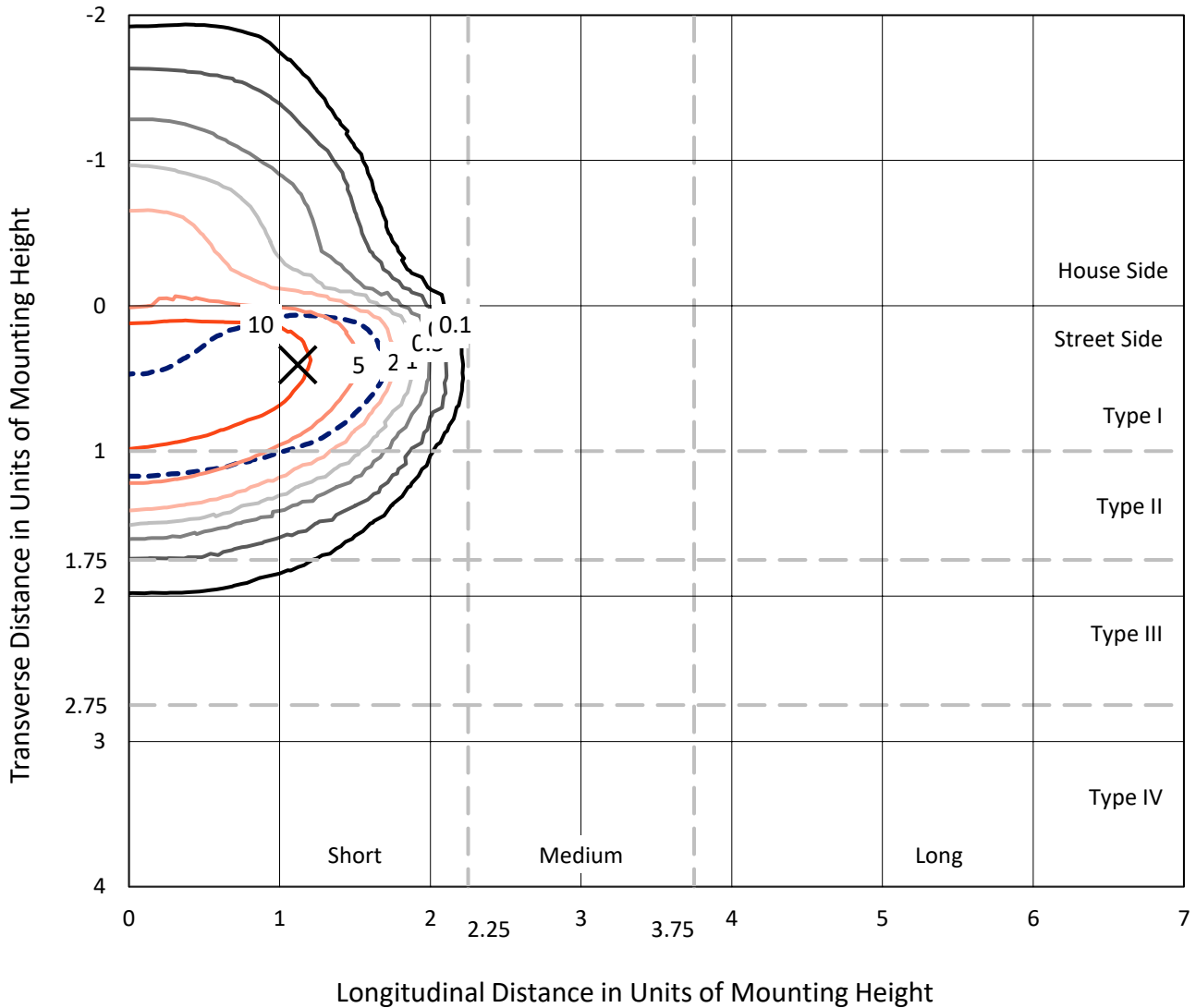
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

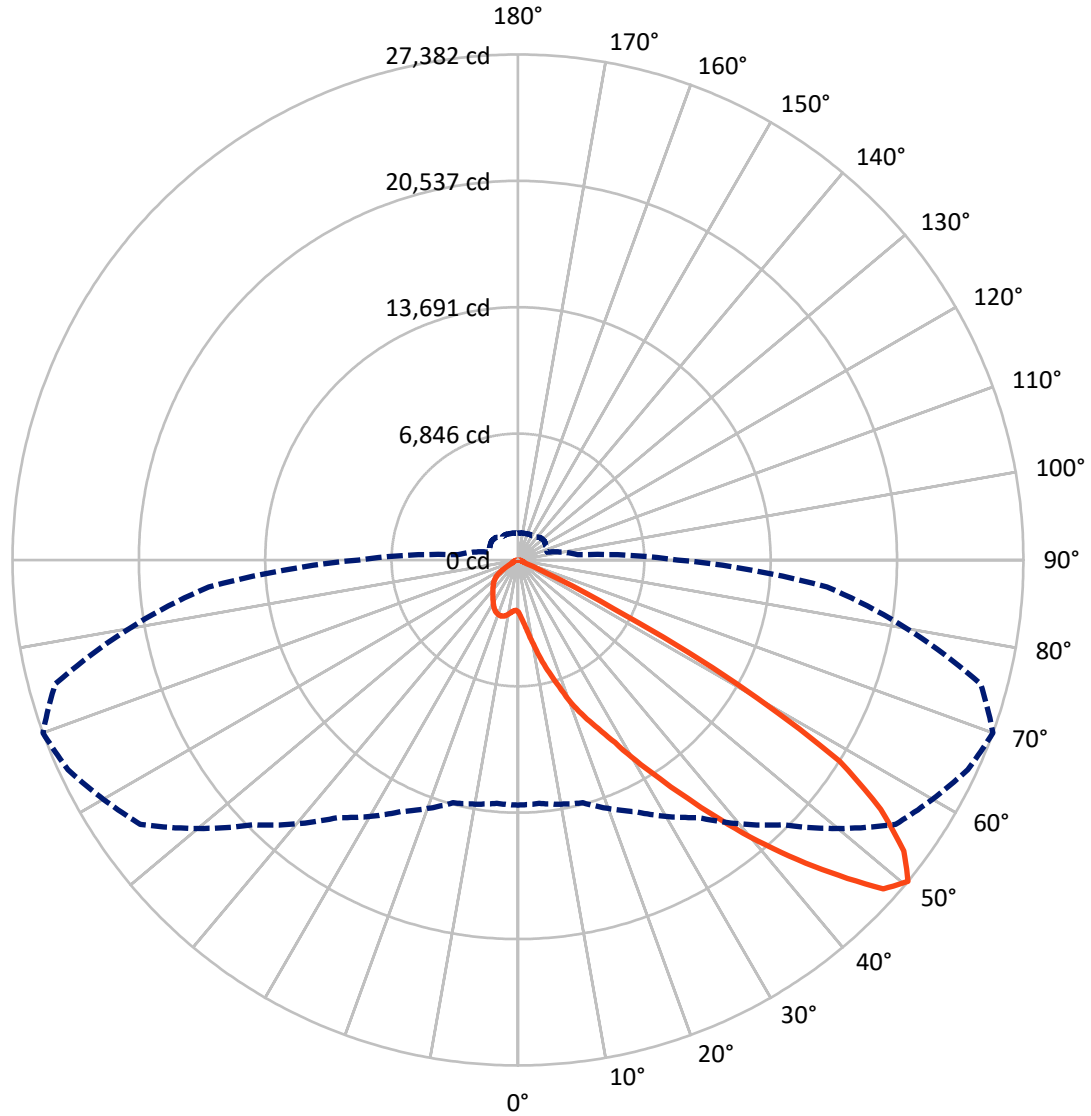
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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	3782.6	0.0	3782.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	23302.4	0.0	23302.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	27085.0	0.0	27085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.8	1.3
10°-20°	1578.1	5.8
20°-30°	3310.5	12.2
30°-40°	5706.2	21.1
40°-50°	8339.5	30.8
50°-60°	6495.1	24.0
60°-70°	1100.5	4.1
70°-80°	151.2	0.6
80°-90°	39.2	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°	27085.0	100.0
0°-180°	27085.0	100.0

Coefficient of Utilization



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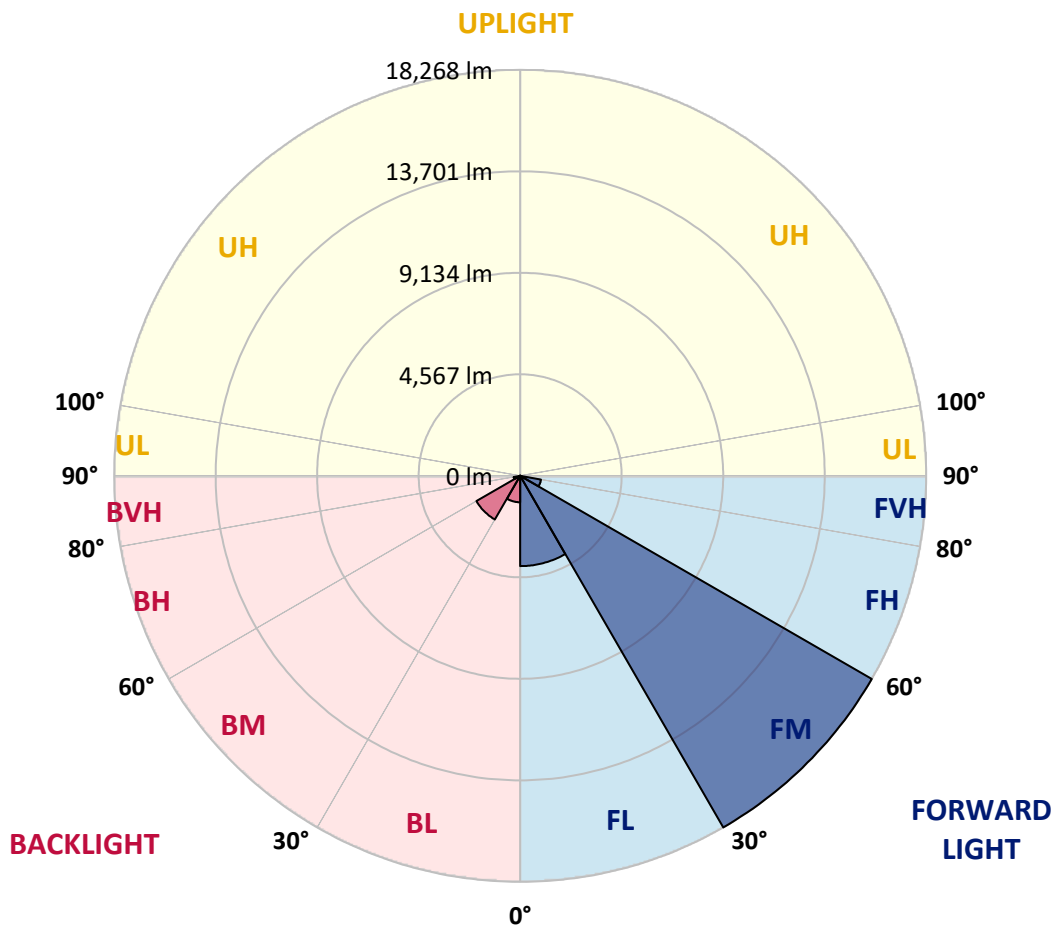
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4063.1	15.0			
FM (30°-60°)	18268.4	67.4			
FH (60°-80°)	952.9	3.5			G1/1800
FVH (80°-90°)	18.1	0.1			G1/100
BL (0°-30°)	1190.3	4.4	B3/2500		
BM (30°-60°)	2272.5	8.4	B2/2500		
BH (60°-80°)	298.8	1.1	B1/500		G1/500
BVH (80°-90°)	21.1	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-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5
2.5°	3673.8	3647.1	3589.2	3482.3	3437.8	3330.9	3268.6	3148.4	3072.7	2988.1	2894.5
5°	5174.5	5036.5	4951.9	4831.6	4479.8	4261.6	3900.9	3593.7	3451.2	3295.3	3081.6
7.5°	6724.2	6635.2	6519.4	6261.1	6020.6	5566.4	4947.4	4270.6	3981.1	3713.9	3290.9
10°	8006.7	7757.4	7744.0	7552.5	7289.8	6746.5	6002.8	5161.2	4644.6	4252.7	3589.2
12.5°	8901.8	8674.7	8777.1	8754.9	8509.9	8011.2	7151.7	6038.4	5499.6	4889.5	3896.5
15°	9716.7	9623.2	9592.0	9565.3	9467.4	9097.7	8327.4	7107.2	6327.9	5593.1	4243.8
17.5°	10513.8	10273.4	10389.2	10411.4	10402.5	10068.5	9347.1	8122.5	7205.2	6336.8	4609.0
20°	11221.9	11244.2	11088.3	11057.1	11030.4	11017.0	10313.5	9128.9	8282.8	7116.1	5085.5
22.5°	12130.3	11974.5	12112.5	12023.5	11849.8	11742.9	11204.1	10019.5	9218.0	8055.7	5570.9
25°	13203.5	13328.2	13003.1	12967.5	12776.0	12406.4	11921.0	11017.0	10117.5	8928.5	6096.3
27.5°	14526.1	14307.9	14223.3	14027.4	13680.0	13524.2	12954.2	12045.7	11204.1	9845.9	6604.0
30°	15661.7	15603.8	15180.7	14949.2	14646.3	14641.9	13844.8	13439.5	12620.2	11284.2	7303.1
32.5°	16587.9	16334.1	16178.2	16017.9	15773.0	15839.8	15167.4	14953.6	14129.8	12620.2	8127.0
35°	17206.9	17024.3	16930.8	16685.9	16614.6	16913.0	16632.4	16543.4	15866.5	14499.4	9093.3
37.5°	17402.8	17460.7	17442.9	17135.6	17287.1	18093.1	18453.8	18222.2	17866.0	16481.0	10139.8
40°	17576.5	17616.6	17527.5	17888.2	18320.2	19237.5	20542.3	20159.3	20025.7	18489.4	11596.0
42.5°	17674.5	17643.3	17643.3	18266.7	18921.4	20765.0	22559.6	22305.7	22203.3	20626.9	13279.2
45°	17251.4	16948.6	17273.7	18119.8	19437.9	21517.5	24171.6	24523.4	24376.4	23169.6	15247.5
47.5°	15670.6	15857.6	16040.2	17171.3	18810.0	21286.0	25160.2	26358.1	26629.7	25307.1	16538.9
50°	13279.2	13239.2	13617.7	15042.7	17033.2	20288.5	24968.7	26888.0	27382.3	25948.4	16810.6
52.5°	9658.8	9952.7	10362.4	11778.5	14138.7	17705.6	22497.2	25520.9	26180.0	25160.2	16632.4
55°	5624.3	5299.2	6221.0	7418.9	9645.5	13354.9	19019.3	22621.9	23842.1	23726.3	15732.9
57.5°	2253.3	2182.0	2498.2	3366.6	5032.0	8278.4	13831.4	18587.4	20542.3	21731.3	13827.0
60°	988.6	966.3	1135.5	1371.6	2057.3	3816.3	7565.9	11560.3	13599.9	15185.2	9516.3
62.5°	712.5	703.6	788.2	872.8	1086.6	1661.0	3179.5	4658.0	5806.9	7013.7	4261.6
65°	574.5	596.7	654.6	699.1	801.6	921.8	1122.2	1295.9	1589.8	1647.7	939.6
67.5°	467.6	485.4	538.8	587.8	605.6	498.8	516.6	454.2	454.2	405.2	325.1
70°	342.9	347.3	409.7	467.6	374.1	200.4	351.8	351.8	316.2	302.8	276.1
72.5°	253.8	258.3	307.3	289.5	147.0	124.7	258.3	285.0	258.3	244.9	222.7
75°	187.0	191.5	160.3	66.8	62.3	80.2	151.4	195.9	187.0	182.6	169.2
77.5°	35.6	26.7	22.3	31.2	44.5	66.8	98.0	120.2	124.7	133.6	124.7
80°	4.5	4.5	13.4	26.7	49.0	71.3	102.4	115.8	120.2	124.7	115.8
82.5°	0.0	4.5	13.4	26.7	49.0	66.8	89.1	102.4	111.3	115.8	111.3
85°	0.0	4.5	8.9	22.3	40.1	49.0	44.5	31.2	26.7	31.2	22.3
87.5°	0.0	0.0	4.5	4.5	8.9	8.9	8.9	8.9	8.9	8.9	8.9
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°	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5	2805.5
2.5°	2841.1	2823.3	2760.9	2694.1	2636.3	2663.0	2636.3	2614.0	2622.9	2614.0	2605.1
5°	2997.0	2916.8	2783.2	2725.3	2676.3	2671.9	2658.5	2654.1	2658.5	2658.5	2618.4
7.5°	3143.9	3014.8	2872.3	2809.9	2752.0	2756.5	2725.3	2725.3	2720.9	2698.6	2689.7
10°	3366.6	3192.9	3010.3	2899.0	2827.7	2814.4	2783.2	2752.0	2752.0	2752.0	2707.5
12.5°	3611.5	3393.3	3143.9	3014.8	2930.2	2863.4	2814.4	2805.5	2756.5	2747.6	2725.3
15°	3825.2	3549.1	3233.0	3054.8	2948.0	2858.9	2783.2	2734.2	2712.0	2698.6	2680.8
17.5°	4034.5	3682.7	3282.0	3054.8	2939.1	2836.6	2756.5	2712.0	2658.5	2667.4	2631.8
20°	4315.1	3825.2	3295.3	2997.0	2854.5	2756.5	2649.6	2627.3	2596.2	2569.5	2578.4
22.5°	4586.7	3927.7	3255.2	2925.7	2720.9	2605.1	2551.6	2524.9	2511.6	2489.3	2458.1
25°	4831.6	4039.0	3192.9	2796.6	2578.4	2493.8	2444.8	2440.3	2409.1	2409.1	2351.3
27.5°	5081.0	4079.1	3086.0	2645.2	2453.7	2404.7	2382.4	2373.5	2360.2	2329.0	2288.9
30°	5366.0	4092.4	2930.2	2489.3	2342.3	2288.9	2320.1	2342.3	2284.5	2226.6	2244.4
32.5°	5602.0	4061.3	2743.1	2342.3	2262.2	2235.5	2297.8	2320.1	2253.3	2190.9	2159.8
35°	5887.0	3985.6	2560.6	2226.6	2182.0	2235.5	2288.9	2288.9	2155.3	2079.6	2061.8
37.5°	6319.0	3900.9	2391.3	2128.6	2097.4	2208.8	2280.0	2231.0	2021.7	1928.2	1905.9
40°	6782.1	3847.5	2226.6	2030.6	2052.9	2164.2	2204.3	2052.9	1839.1	1781.3	1763.4
42.5°	7454.5	3740.6	2079.6	1946.0	2012.8	2101.9	2101.9	1830.2	1750.1	1718.9	1714.5
45°	8291.7	3664.9	1950.5	1874.8	1954.9	1977.2	1905.9	1714.5	1656.6	1647.7	1652.1
47.5°	8701.4	3518.0	1816.9	1790.2	1848.0	1852.5	1665.5	1620.9	1572.0	1558.6	1549.7
50°	8639.1	3255.2	1643.2	1678.8	1759.0	1714.5	1518.5	1527.4	1482.9	1478.4	1456.2
52.5°	8202.7	2841.1	1469.5	1554.1	1643.2	1514.1	1398.3	1389.4	1389.4	1331.5	1309.2
55°	7272.0	2288.9	1260.2	1367.1	1474.0	1273.6	1242.4	1233.5	1211.3	1157.8	1144.5
57.5°	5757.9	1678.8	948.5	1064.3	1251.3	1082.1	1077.7	1037.6	979.7	939.6	939.6
60°	3424.5	966.3	596.7	650.2	828.3	877.3	975.2	957.4	859.5	797.1	779.3
62.5°	1563.0	498.8	378.5	387.4	445.3	570.0	765.9	886.2	748.1	641.3	632.3
65°	525.5	369.6	311.7	298.4	307.3	342.9	458.7	627.9	596.7	494.3	476.5
67.5°	320.6	329.5	293.9	271.6	271.6	267.2	262.7	285.0	351.8	342.9	347.3
70°	276.1	302.8	271.6	244.9	236.0	222.7	187.0	155.9	133.6	155.9	164.8
72.5°	222.7	240.5	231.6	209.3	187.0	169.2	133.6	102.4	75.7	66.8	66.8
75°	164.8	178.1	187.0	160.3	142.5	120.2	98.0	66.8	40.1	26.7	26.7
77.5°	120.2	133.6	138.0	124.7	106.9	84.6	62.3	44.5	22.3	8.9	8.9
80°	102.4	120.2	133.6	124.7	111.3	80.2	57.9	31.2	17.8	4.5	4.5
82.5°	98.0	120.2	133.6	120.2	106.9	75.7	57.9	35.6	13.4	4.5	4.5
85°	22.3	31.2	40.1	49.0	57.9	57.9	44.5	26.7	13.4	4.5	4.5
87.5°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	4.5	4.5	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)