

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: P531439

Luminaire Tested: **GALN-SA6D-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531439
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-SA6D-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA 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: 25373 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

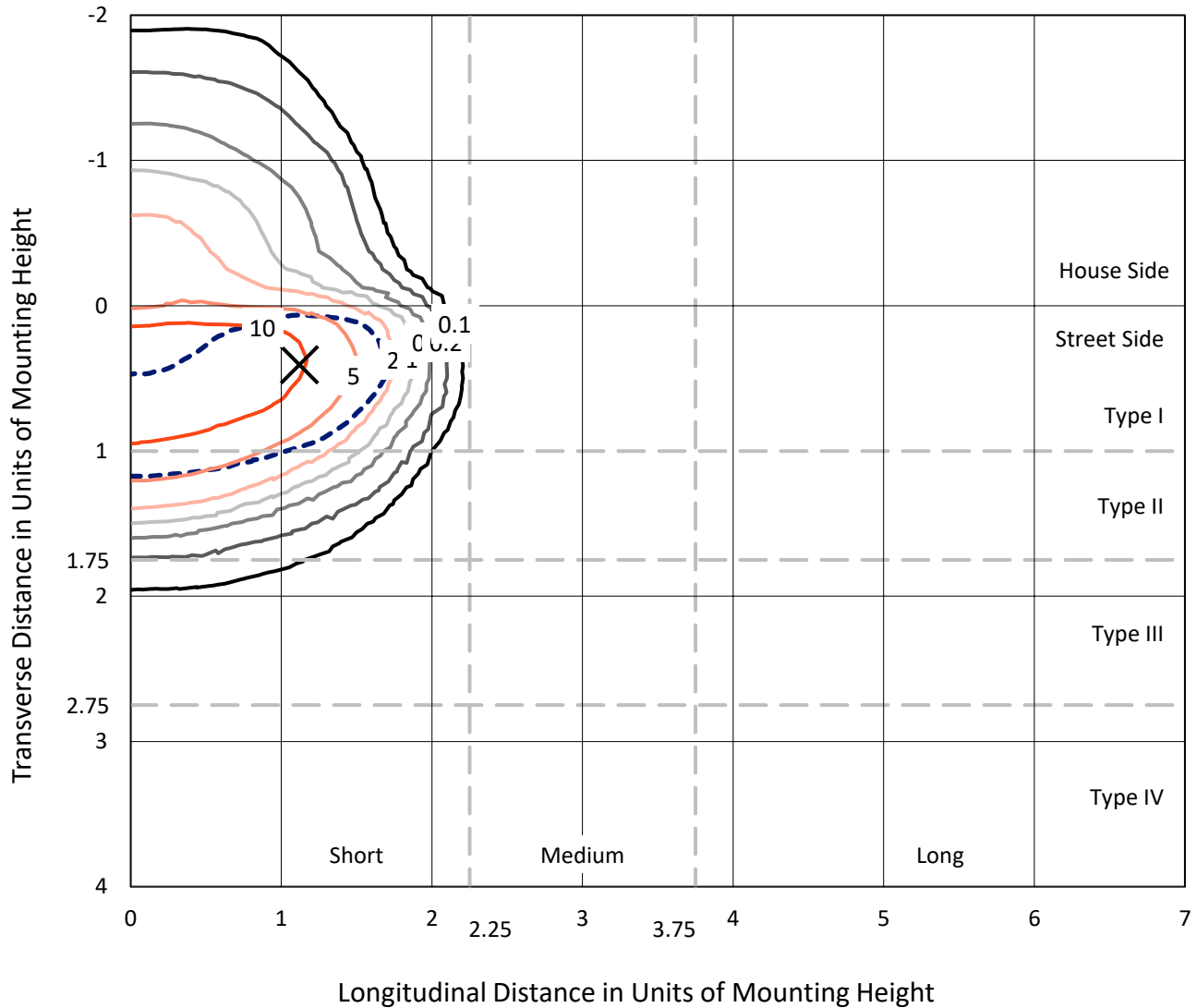
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

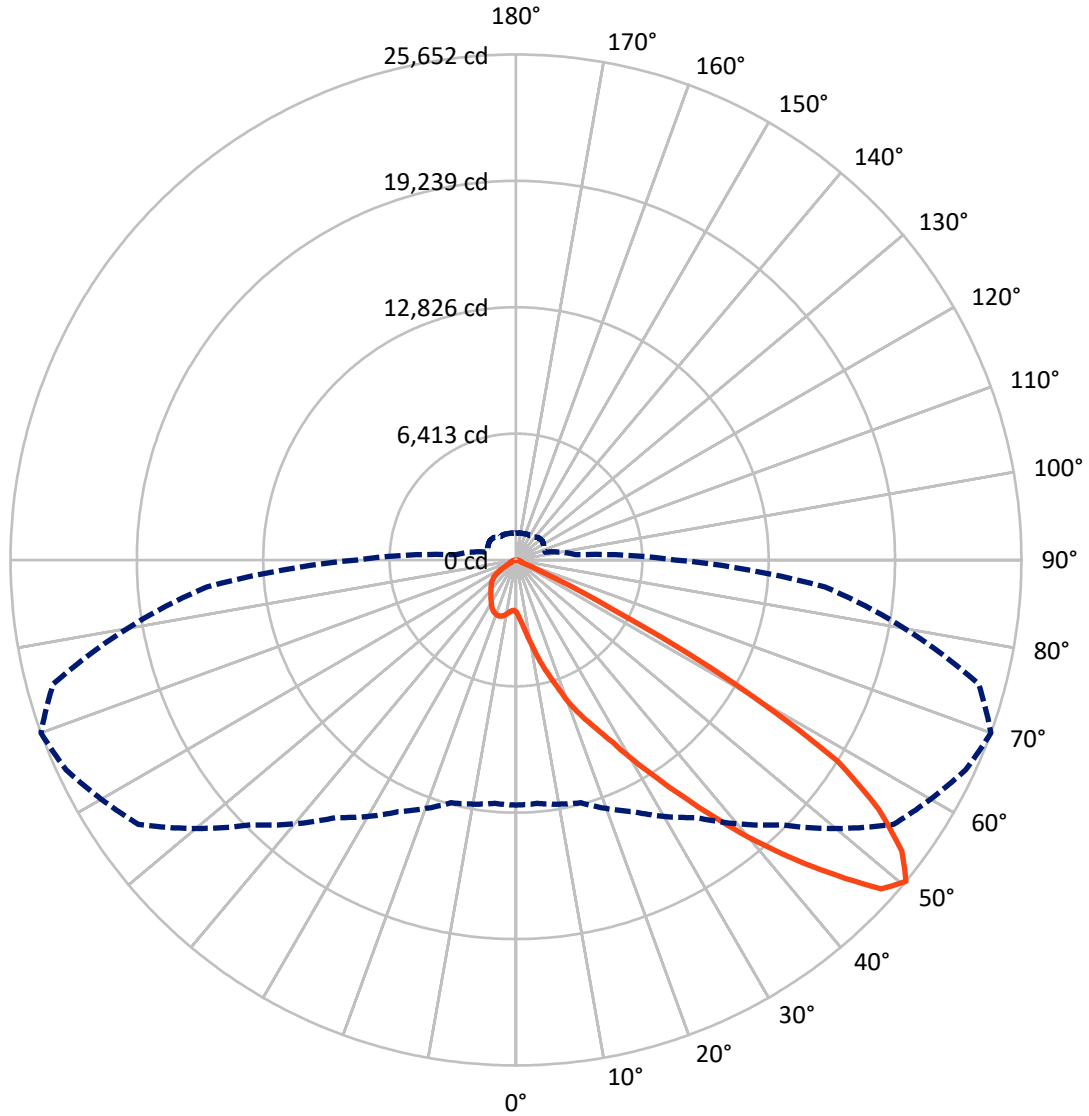
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 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	3543.5	0.0	3543.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	21829.5	0.0	21829.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	25373.0	0.0	25373.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.8	1.3
10°-20°	1478.3	5.8
20°-30°	3101.2	12.2
30°-40°	5345.5	21.1
40°-50°	7812.4	30.8
50°-60°	6084.6	24.0
60°-70°	1030.9	4.1
70°-80°	141.6	0.6
80°-90°	36.7	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°	25373.0	100.0
0°-180°	25373.0	100.0

Coefficient of Utilization

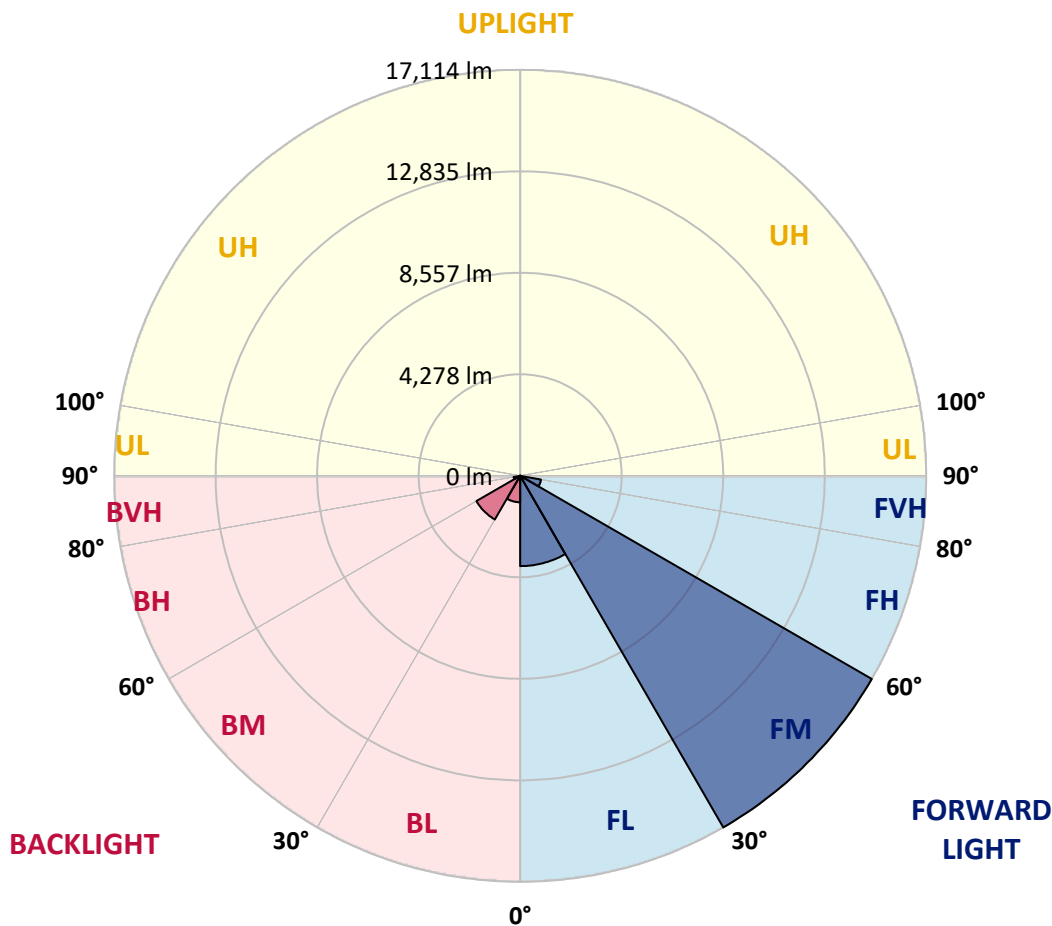


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3806.2	15.0			
FM (30°-60°)	17113.7	67.4			
FH (60°-80°)	892.6	3.5			G1/1800
FVH (80°-90°)	17.0	0.1			G1/100
BL (0°-30°)	1115.1	4.4	B3/2500		
BM (30°-60°)	2128.8	8.4	B2/2500		
BH (60°-80°)	279.9	1.1	B1/500		G1/500
BVH (80°-90°)	19.7	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°	2628.1	2628.1	2628.1	2628.1	2628.1	2628.1	2628.1	2628.1	2628.1	2628.1	2628.1
2.5°	3441.6	3416.6	3362.4	3262.2	3220.5	3120.4	3062.0	2949.4	2878.4	2799.2	2711.6
5°	4847.5	4718.1	4638.9	4526.2	4196.7	3992.3	3654.4	3366.5	3233.0	3087.0	2886.8
7.5°	6299.2	6215.8	6107.3	5865.3	5640.1	5214.6	4634.7	4000.6	3729.5	3479.2	3082.9
10°	7500.6	7267.0	7254.5	7075.1	6829.0	6320.1	5623.4	4834.9	4351.0	3983.9	3362.4
12.5°	8339.1	8126.4	8222.3	8201.5	7972.0	7504.8	6699.7	5656.8	5152.0	4580.5	3650.2
15°	9102.6	9014.9	8985.7	8960.7	8868.9	8522.7	7801.0	6658.0	5927.9	5239.6	3975.6
17.5°	9849.3	9624.0	9732.5	9753.3	9745.0	9432.1	8756.3	7609.1	6749.7	5936.3	4317.7
20°	10512.6	10533.4	10387.4	10358.2	10333.2	10320.7	9661.6	8551.9	7759.3	6666.3	4764.0
22.5°	11363.6	11217.6	11346.9	11263.5	11100.8	11000.7	10495.9	9386.2	8635.3	7546.5	5218.7
25°	12369.0	12485.8	12181.2	12147.9	11968.5	11622.2	11167.5	10320.7	9478.0	8364.2	5711.0
27.5°	13607.9	13403.5	13324.3	13140.7	12815.3	12669.3	12135.3	11284.3	10495.9	9223.5	6186.6
30°	14671.7	14617.5	14221.2	14004.2	13720.6	13716.4	12969.7	12590.1	11822.5	10571.0	6841.5
32.5°	15539.4	15301.6	15155.6	15005.4	14776.0	14838.6	14208.7	14008.4	13236.7	11822.5	7613.3
35°	16119.3	15948.2	15860.6	15631.2	15564.4	15843.9	15581.1	15497.7	14863.6	13582.9	8518.5
37.5°	16302.8	16357.1	16340.4	16052.5	16194.4	16949.4	17287.3	17070.4	16736.7	15439.3	9498.9
40°	16465.5	16503.1	16419.6	16757.5	17162.2	18021.6	19243.8	18885.1	18759.9	17320.7	10863.0
42.5°	16557.3	16528.1	16528.1	17112.1	17725.4	19452.4	21133.6	20895.8	20799.9	19323.1	12439.9
45°	16161.0	15877.3	16181.9	16974.5	18209.3	20157.4	22643.7	22973.3	22835.6	21705.1	14283.7
47.5°	14680.1	14855.3	15026.3	16085.9	17621.1	19940.5	23569.9	24692.0	24946.5	23707.5	15493.5
50°	12439.9	12402.3	12756.9	14091.9	15956.6	19006.1	23390.5	25188.5	25651.5	24308.2	15748.0
52.5°	9048.3	9323.7	9707.4	11034.0	13245.0	16586.5	21075.2	23907.8	24525.2	23569.9	15581.1
55°	5268.8	4964.3	5827.8	6950.0	9035.8	12510.8	17817.1	21192.0	22335.0	22226.6	14738.5
57.5°	2110.9	2044.1	2340.3	3153.8	4714.0	7755.1	12957.2	17412.5	19243.8	20357.7	12953.0
60°	926.1	905.2	1063.8	1284.9	1927.3	3575.1	7087.6	10829.6	12740.2	14225.3	8914.8
62.5°	667.5	659.1	738.4	817.6	1017.9	1556.0	2978.6	4363.6	5439.8	6570.4	3992.3
65°	538.1	559.0	613.2	654.9	750.9	863.5	1051.3	1214.0	1489.3	1543.5	880.2
67.5°	438.0	454.7	504.8	550.7	567.3	467.2	483.9	425.5	425.5	379.6	304.5
70°	321.2	325.4	383.8	438.0	350.4	187.7	329.6	329.6	296.2	283.7	258.6
72.5°	237.8	242.0	287.8	271.2	137.7	116.8	242.0	267.0	242.0	229.4	208.6
75°	175.2	179.4	150.2	62.6	58.4	75.1	141.8	183.6	175.2	171.0	158.5
77.5°	33.4	25.0	20.9	29.2	41.7	62.6	91.8	112.6	116.8	125.1	116.8
80°	4.2	4.2	12.5	25.0	45.9	66.7	95.9	108.5	112.6	116.8	108.5
82.5°	0.0	4.2	12.5	25.0	45.9	62.6	83.4	95.9	104.3	108.5	104.3
85°	0.0	4.2	8.3	20.9	37.5	45.9	41.7	29.2	25.0	29.2	20.9
87.5°	0.0	0.0	4.2	4.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3
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°	2628.1	2628.1	2628.1	2628.1	2628.1	2628.1	2628.1	2628.1	2628.1	2628.1	2628.1
2.5°	2661.5	2644.8	2586.4	2523.9	2469.6	2494.7	2469.6	2448.8	2457.1	2448.8	2440.4
5°	2807.5	2732.4	2607.3	2553.1	2507.2	2503.0	2490.5	2486.3	2490.5	2490.5	2452.9
7.5°	2945.2	2824.2	2690.7	2632.3	2578.1	2582.3	2553.1	2553.1	2548.9	2528.0	2519.7
10°	3153.8	2991.1	2820.0	2715.7	2649.0	2636.5	2607.3	2578.1	2578.1	2578.1	2536.4
12.5°	3383.2	3178.8	2945.2	2824.2	2744.9	2682.4	2636.5	2628.1	2582.3	2573.9	2553.1
15°	3583.5	3324.8	3028.6	2861.8	2761.6	2678.2	2607.3	2561.4	2540.5	2528.0	2511.3
17.5°	3779.5	3450.0	3074.5	2861.8	2753.3	2657.3	2582.3	2540.5	2490.5	2498.8	2465.4
20°	4042.3	3583.5	3087.0	2807.5	2674.0	2582.3	2482.1	2461.3	2432.1	2407.0	2415.4
22.5°	4296.8	3679.4	3049.5	2740.8	2548.9	2440.4	2390.4	2365.3	2352.8	2332.0	2302.8
25°	4526.2	3783.7	2991.1	2619.8	2415.4	2336.1	2290.2	2286.1	2256.9	2256.9	2202.6
27.5°	4759.9	3821.2	2891.0	2478.0	2298.6	2252.7	2231.8	2223.5	2211.0	2181.8	2144.2
30°	5026.8	3833.8	2744.9	2332.0	2194.3	2144.2	2173.4	2194.3	2140.1	2085.8	2102.5
32.5°	5247.9	3804.6	2569.7	2194.3	2119.2	2094.2	2152.6	2173.4	2110.9	2052.5	2023.3
35°	5514.9	3733.6	2398.7	2085.8	2044.1	2094.2	2144.2	2144.2	2019.1	1948.2	1931.5
37.5°	5919.6	3654.4	2240.2	1994.1	1964.8	2069.1	2135.9	2090.0	1893.9	1806.3	1785.5
40°	6353.4	3604.3	2085.8	1902.3	1923.1	2027.4	2065.0	1923.1	1722.9	1668.7	1652.0
42.5°	6983.4	3504.2	1948.2	1823.0	1885.6	1969.0	1969.0	1714.6	1639.5	1610.3	1606.1
45°	7767.6	3433.3	1827.2	1756.3	1831.4	1852.2	1785.5	1606.1	1551.9	1543.5	1547.7
47.5°	8151.4	3295.6	1702.0	1677.0	1731.2	1735.4	1560.2	1518.5	1472.6	1460.1	1451.7
50°	8093.0	3049.5	1539.3	1572.7	1647.8	1606.1	1422.5	1430.9	1389.2	1385.0	1364.1
52.5°	7684.2	2661.5	1376.6	1455.9	1539.3	1418.4	1309.9	1301.6	1301.6	1247.3	1226.5
55°	6812.3	2144.2	1180.6	1280.7	1380.8	1193.1	1163.9	1155.5	1134.7	1084.6	1072.1
57.5°	5394.0	1572.7	888.6	997.0	1172.2	1013.7	1009.5	972.0	917.8	880.2	880.2
60°	3208.0	905.2	559.0	609.1	775.9	821.8	913.6	896.9	805.1	746.7	730.0
62.5°	1464.3	467.2	354.6	362.9	417.2	534.0	717.5	830.2	700.8	600.7	592.4
65°	492.3	346.2	292.0	279.5	287.8	321.2	429.7	588.2	559.0	463.1	446.4
67.5°	300.4	308.7	275.3	254.5	254.5	250.3	246.1	267.0	329.6	321.2	325.4
70°	258.6	283.7	254.5	229.4	221.1	208.6	175.2	146.0	125.1	146.0	154.4
72.5°	208.6	225.3	216.9	196.1	175.2	158.5	125.1	95.9	70.9	62.6	62.6
75°	154.4	166.9	175.2	150.2	133.5	112.6	91.8	62.6	37.5	25.0	25.0
77.5°	112.6	125.1	129.3	116.8	100.1	79.3	58.4	41.7	20.9	8.3	8.3
80°	95.9	112.6	125.1	116.8	104.3	75.1	54.2	29.2	16.7	4.2	4.2
82.5°	91.8	112.6	125.1	112.6	100.1	70.9	54.2	33.4	12.5	4.2	4.2
85°	20.9	29.2	37.5	45.9	54.2	54.2	41.7	25.0	12.5	4.2	4.2
87.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	4.2	4.2	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)