

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: P452536

Luminaire Tested: **GALN-SA3C-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17513 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

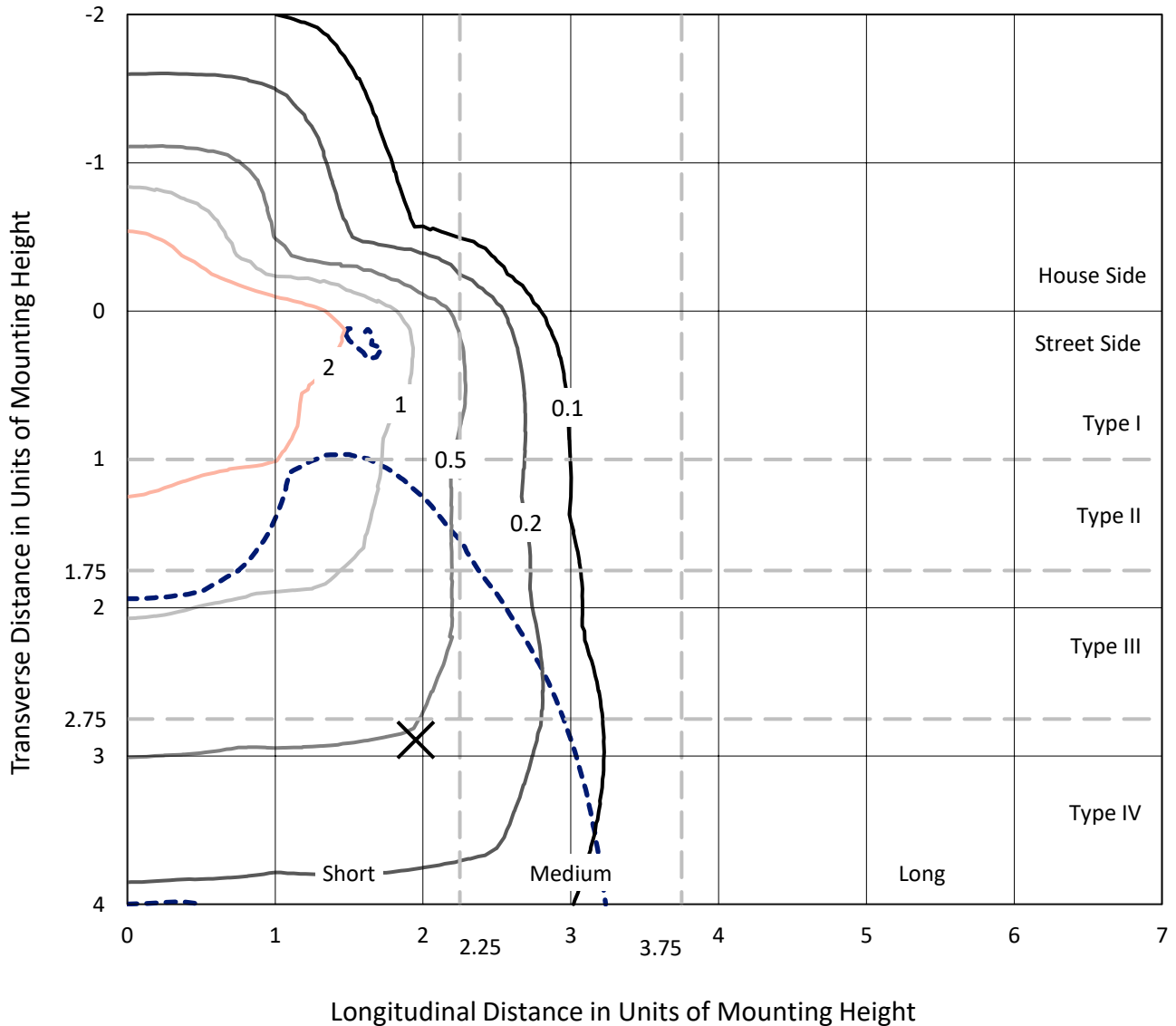
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

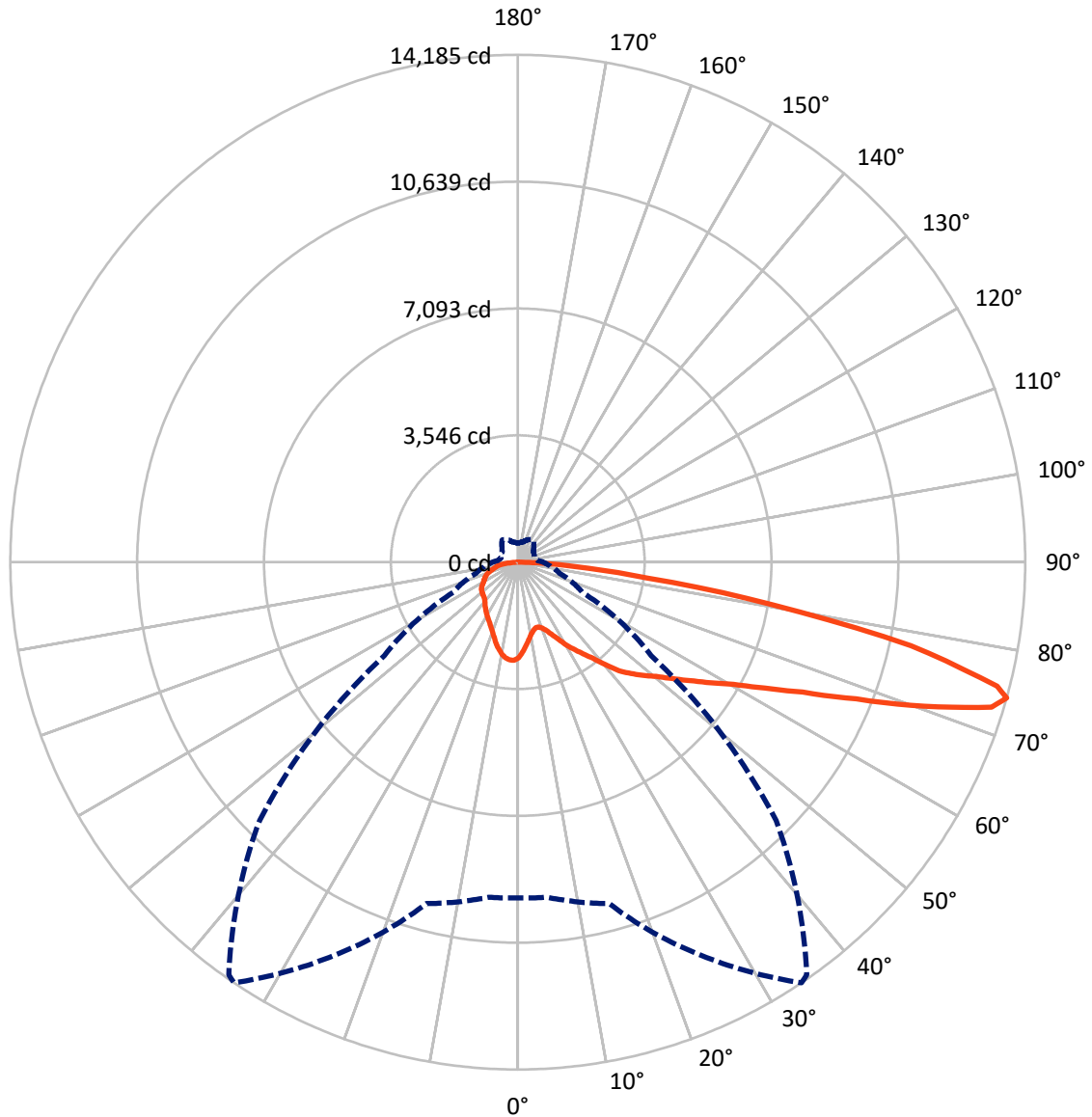
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3726.9	0.0	3726.9
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	13786.1	0.0	13786.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	17513.0	0.0	17513.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.2	1.4
10°-20°	665.7	3.8
20°-30°	1097.6	6.3
30°-40°	1644.0	9.4
40°-50°	2389.9	13.6
50°-60°	3338.2	19.1
60°-70°	4179.2	23.9
70°-80°	3455.9	19.7
80°-90°	499.4	2.9
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°	17513.0	100.0
0°-180°	17513.0	100.0

Coefficient of Utilization



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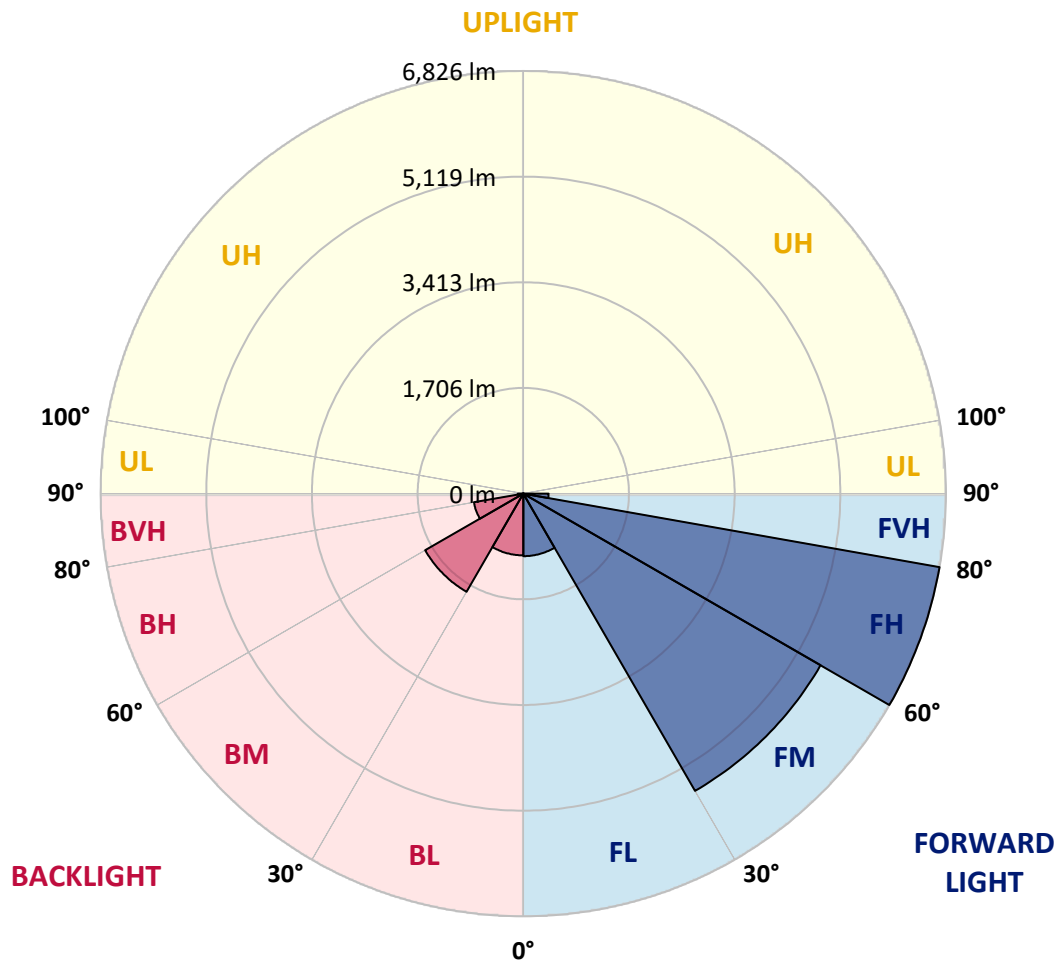
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1009.5	5.8			
FM (30°-60°)	5541.8	31.6			
FH (60°-80°)	6825.6	39.0			G3/7500
FVH (80°-90°)	409.1	2.3			G3/500
BL (0°-30°)	996.9	5.7	B2/1000		
BM (30°-60°)	1830.3	10.5	B2/2500		
BH (60°-80°)	809.5	4.6	B2/1000		G2/1000
BVH (80°-90°)	90.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2673.9	2673.9	2673.9	2673.9	2673.9	2673.9	2673.9	2673.9	2673.9	2673.9	2673.9
2.5°	2471.1	2483.7	2490.5	2514.8	2520.6	2528.4	2548.7	2575.9	2610.8	2641.9	2669.0
5°	2265.4	2284.8	2296.5	2317.8	2359.5	2363.4	2417.8	2479.8	2550.7	2616.6	2671.0
7.5°	2070.4	2091.8	2101.5	2140.3	2195.6	2204.3	2283.9	2381.9	2500.2	2600.2	2683.6
10°	1923.9	1934.6	1955.9	1985.0	2051.0	2056.8	2160.6	2291.6	2444.9	2592.4	2704.9
12.5°	1844.4	1850.2	1855.0	1886.1	1951.1	1959.8	2068.5	2216.9	2401.3	2598.2	2739.9
15°	1856.0	1857.9	1836.6	1842.4	1894.8	1907.4	2015.1	2167.4	2374.1	2612.8	2792.3
17.5°	1954.0	1947.2	1894.8	1867.6	1904.5	1910.3	2004.4	2148.0	2361.5	2639.9	2846.6
20°	2108.3	2098.6	2008.3	1948.2	1969.5	1974.4	2039.4	2162.6	2374.1	2684.6	2931.0
22.5°	2300.4	2296.5	2159.7	2086.9	2085.9	2085.9	2119.9	2215.0	2411.9	2745.7	3019.3
25°	2569.1	2548.7	2370.2	2276.1	2249.9	2248.0	2244.1	2301.3	2460.4	2810.7	3124.1
27.5°	2844.6	2809.7	2650.6	2506.0	2449.8	2443.0	2417.8	2423.6	2522.5	2884.4	3243.4
30°	3092.0	3069.7	2920.3	2760.2	2693.3	2677.8	2607.9	2575.9	2626.3	3017.3	3433.6
32.5°	3281.2	3267.7	3151.2	3005.7	2906.7	2903.8	2802.0	2775.8	2788.4	3178.4	3650.9
35°	3434.5	3439.4	3380.2	3254.1	3140.6	3124.1	3056.2	3023.2	2986.3	3411.2	3924.5
37.5°	3644.1	3654.8	3650.9	3542.2	3403.5	3407.4	3391.8	3337.5	3239.5	3671.3	4228.2
40°	3875.0	3882.8	3881.8	3840.1	3767.3	3771.2	3765.4	3703.3	3556.8	4002.1	4565.8
42.5°	4194.2	4157.3	4061.3	4103.0	4145.7	4164.1	4203.9	4144.7	3943.9	4355.3	4883.0
45°	4551.2	4481.4	4264.1	4283.5	4441.6	4476.5	4695.8	4614.3	4364.0	4760.8	5256.6
47.5°	4776.3	4707.4	4524.1	4520.2	4729.8	4763.7	5151.8	5121.7	4746.2	5198.4	5712.6
50°	4977.2	4967.5	4760.8	4810.3	5015.0	5065.4	5648.5	5620.4	5127.5	5714.5	6209.3
52.5°	5275.0	5196.4	5031.5	5133.4	5404.0	5470.0	6141.4	6058.9	5477.8	6170.5	6691.5
55°	5408.9	5390.5	5380.8	5469.1	5840.6	5888.2	6620.7	6431.5	5776.6	6556.7	7058.3
57.5°	5766.9	5732.9	5829.0	5889.2	6354.9	6427.6	7121.3	6820.6	6038.6	6863.2	7236.8
60°	6230.7	6212.2	6300.5	6409.2	6929.2	7039.8	7691.8	7152.4	6249.1	7017.5	7138.8
62.5°	6923.4	6921.5	6905.0	7137.8	7743.2	7845.1	8346.7	7475.4	6282.1	6902.0	6632.3
65°	7916.9	7882.0	7738.4	7992.6	8756.1	8875.4	9028.7	7655.9	6083.2	6309.3	5584.5
67.5°	8956.0	8954.0	8837.6	9167.5	10210.5	10333.7	9881.6	7616.1	5531.1	5111.0	3966.2
70°	9817.5	9775.8	9924.2	10803.2	12068.4	12211.0	10627.6	7147.5	4405.7	3375.3	2356.6
72.5°	10024.2	10026.1	10334.6	12064.5	13852.6	13874.9	10896.4	5793.1	2948.5	1861.8	1178.8
74°	9387.7	9404.2	9882.5	12127.6	14185.4	14084.5	10209.5	4553.2	1993.8	1215.7	849.9
75°	8568.9	8465.1	9156.8	11707.5	13840.0	13731.3	9405.2	3653.8	1521.3	971.2	744.1
77.5°	4581.3	4687.1	5754.3	8736.7	11243.7	11118.6	6377.2	1752.2	821.8	676.2	535.6
80°	1630.9	1798.8	2528.4	4571.6	7208.6	7247.4	3043.5	803.3	578.2	498.7	378.4
82.5°	665.6	684.0	1085.7	2028.7	3660.6	3695.5	1242.8	477.3	413.3	343.5	226.1
85°	260.0	267.8	480.3	912.0	1562.0	1663.9	429.8	252.3	254.2	197.0	115.5
87.5°	87.3	99.0	197.0	303.7	530.7	520.0	125.2	74.7	91.2	85.4	35.9
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°	2673.9	2673.9	2673.9	2673.9	2673.9	2673.9	2673.9	2673.9	2673.9	2673.9	2673.9
2.5°	2682.6	2701.1	2713.7	2727.3	2739.9	2743.7	2740.8	2749.6	2750.5	2751.5	2752.5
5°	2698.1	2723.4	2747.6	2761.2	2767.0	2762.2	2745.7	2737.0	2729.2	2723.4	2725.3
7.5°	2719.5	2755.4	2777.7	2783.5	2768.0	2745.7	2704.9	2672.9	2652.5	2639.0	2638.0
10°	2752.5	2787.4	2805.8	2789.3	2746.7	2692.3	2628.3	2568.1	2522.5	2509.0	2508.0
12.5°	2794.2	2834.0	2833.0	2784.5	2709.8	2612.8	2509.0	2439.1	2377.0	2346.0	2358.6
15°	2848.5	2878.6	2850.5	2763.1	2644.8	2511.9	2383.8	2288.7	2218.9	2185.9	2187.8
17.5°	2911.6	2937.8	2863.1	2725.3	2553.6	2382.8	2234.4	2144.2	2088.9	2064.6	2062.7
20°	2990.2	2997.9	2863.1	2659.3	2436.2	2232.4	2090.8	2027.7	1996.7	1984.1	1988.0
22.5°	3074.6	3059.1	2847.6	2566.2	2281.9	2075.3	1980.2	1952.1	1936.5	1934.6	1936.5
25°	3169.7	3126.0	2815.5	2440.1	2120.9	1939.4	1884.1	1889.0	1891.9	1891.9	1898.7
27.5°	3286.1	3198.8	2762.2	2281.0	1932.7	1813.3	1797.8	1831.7	1847.3	1850.2	1855.0
30°	3439.4	3278.3	2673.9	2082.1	1772.6	1699.8	1727.0	1772.6	1790.0	1800.7	1798.8
32.5°	3621.8	3365.6	2554.6	1883.2	1643.5	1620.2	1653.2	1699.8	1719.2	1725.0	1717.3
35°	3836.2	3464.6	2397.4	1696.9	1531.0	1544.6	1583.4	1597.9	1615.4	1615.4	1619.3
37.5°	4067.1	3544.2	2205.3	1526.1	1443.7	1493.1	1521.3	1507.7	1499.9	1490.2	1495.1
40°	4301.9	3603.3	1955.9	1357.3	1356.3	1439.8	1447.5	1408.7	1377.7	1368.0	1363.1
42.5°	4506.6	3640.2	1730.8	1226.3	1273.9	1387.4	1393.2	1331.1	1281.6	1252.5	1242.8
45°	4748.2	3682.9	1510.6	1117.7	1197.2	1345.7	1360.2	1276.8	1204.0	1142.9	1127.4
47.5°	5079.0	3779.9	1336.9	1033.3	1141.9	1319.5	1339.9	1232.2	1136.1	1056.6	1043.9
50°	5452.6	3912.8	1202.1	976.0	1099.2	1296.2	1321.4	1186.6	1073.0	984.8	975.1
52.5°	5795.0	3984.6	1085.7	924.6	1057.5	1253.5	1297.2	1153.6	1011.0	913.0	904.2
55°	5982.3	3868.2	971.2	874.2	1000.3	1198.2	1263.2	1108.0	950.8	875.1	862.5
57.5°	6007.5	3627.6	867.4	819.8	940.1	1130.3	1200.1	1052.7	912.0	848.9	838.3
60°	5812.5	3268.6	786.8	775.2	879.0	1053.6	1129.3	1004.2	872.2	819.8	809.2
62.5°	5327.4	2878.6	730.6	734.4	816.9	973.1	1076.9	957.6	834.4	787.8	778.1
65°	4493.0	2376.0	676.2	692.7	761.6	910.1	1029.4	918.8	796.5	763.6	754.8
67.5°	3121.2	1715.3	631.6	649.1	709.2	846.0	974.1	877.1	753.9	736.4	722.8
70°	1727.9	1055.6	579.2	599.6	654.9	774.2	912.0	814.0	691.8	684.0	664.6
72.5°	908.1	672.4	520.0	542.3	581.2	682.1	816.9	745.1	630.6	597.6	572.4
74°	709.2	551.1	480.3	503.5	529.7	627.7	760.6	695.6	587.0	548.2	528.8
75°	618.0	490.9	446.3	476.4	499.7	590.9	717.0	660.7	562.7	525.9	508.4
77.5°	436.6	367.7	364.8	400.7	413.3	518.1	646.2	601.5	501.6	462.8	446.3
80°	306.6	275.5	289.1	311.4	328.9	457.9	599.6	520.0	411.4	365.8	359.9
82.5°	199.9	180.5	206.7	227.0	232.8	337.6	484.1	394.9	299.8	243.5	226.1
85°	92.2	90.2	118.4	115.5	114.5	164.9	287.2	230.9	172.7	129.0	121.3
87.5°	23.3	22.3	29.1	24.3	29.1	25.2	26.2	6.8	1.0	0.0	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)