

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: P452677

Luminaire Tested: **GALN-SA3C-827-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15300 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

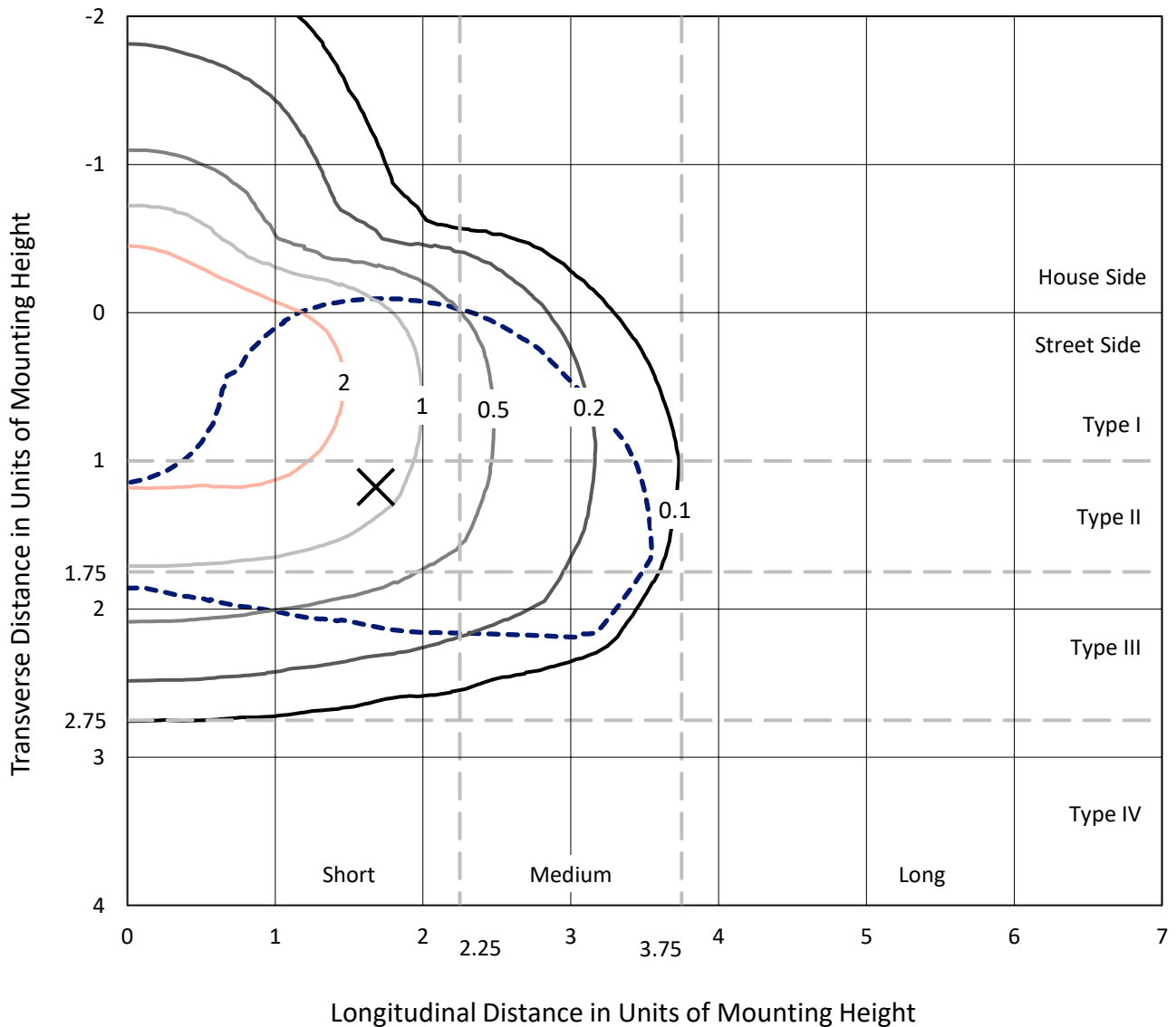
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

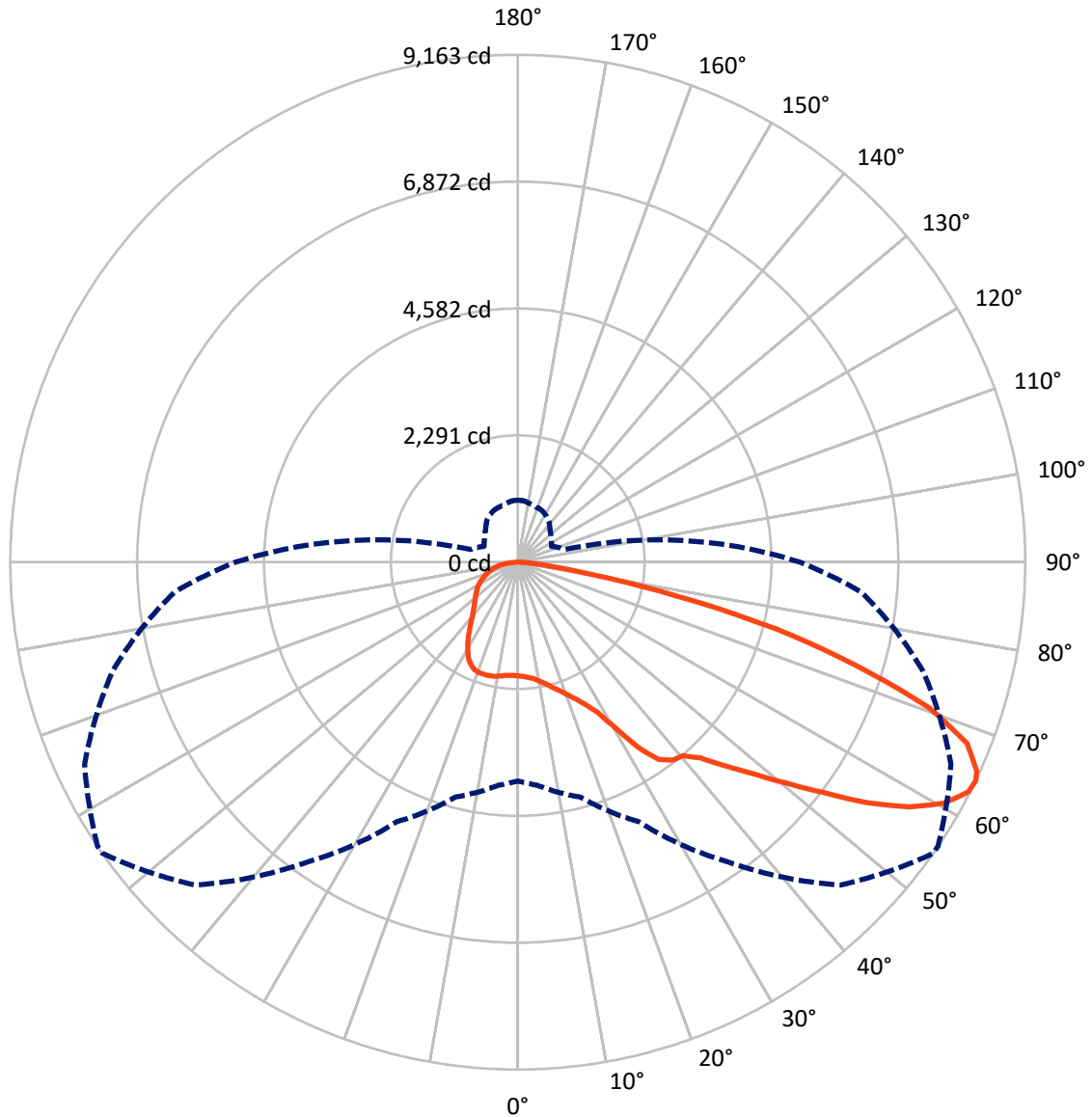
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3716.7	0.0	3716.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	11583.3	0.0	11583.3
	% Fixture	75.7	0.0	75.7
Total	Lumens	15300.0	0.0	15300.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.7	1.3
10°-20°	630.1	4.1
20°-30°	1121.7	7.3
30°-40°	1725.8	11.3
40°-50°	2446.5	16.0
50°-60°	3541.2	23.1
60°-70°	3664.8	24.0
70°-80°	1716.2	11.2
80°-90°	254.1	1.7
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°	15300.0	100.0
0°-180°	15300.0	100.0



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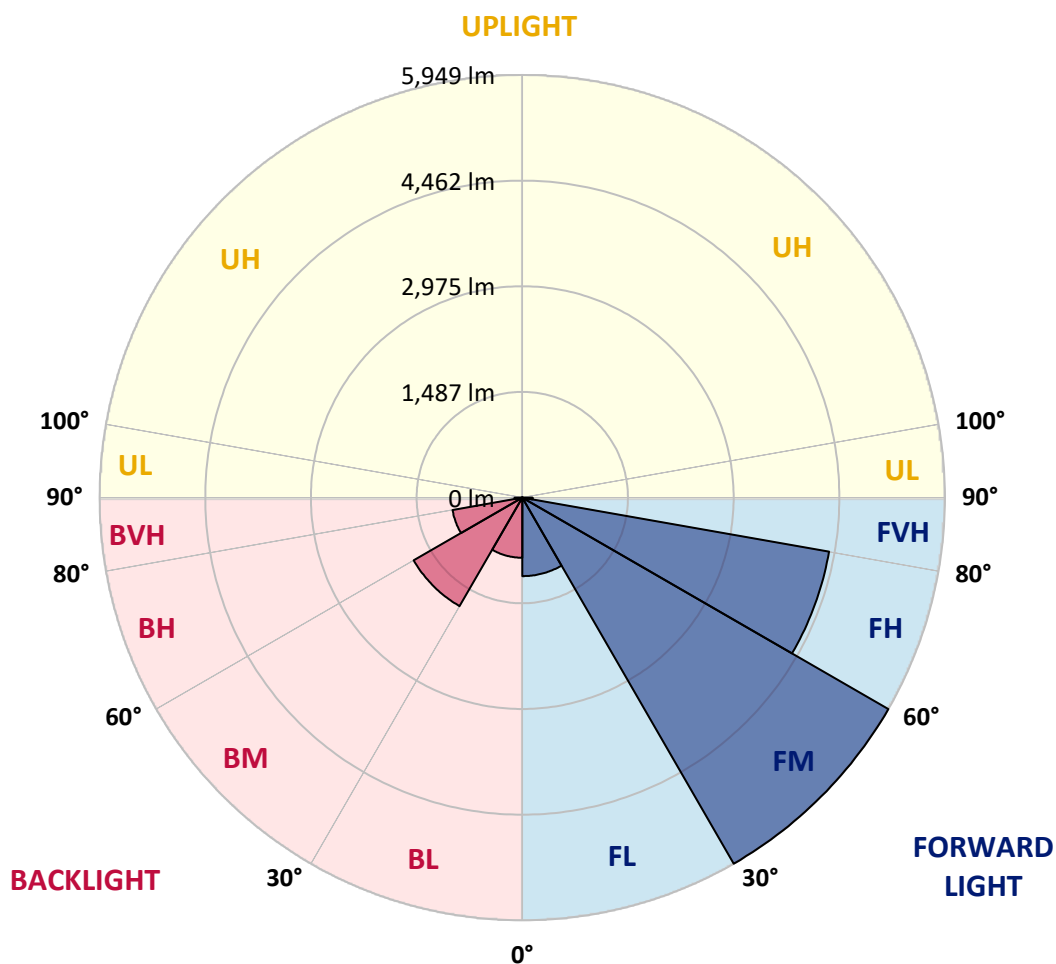
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1104.9	7.2			
FM	(30°-60°)	5949.1	38.9			
FH	(60°-80°)	4383.9	28.7			G2/5000
FVH	(80°-90°)	145.5	1.0			G2/225
BL	(0°-30°)	846.5	5.5	B2/1000		
BM	(30°-60°)	1764.4	11.5	B2/2500		
BH	(60°-80°)	997.1	6.5	B2/1000		G2/1000
BVH	(80°-90°)	108.6	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8
2.5°	2075.8	2075.0	2077.5	2075.0	2076.7	2070.7	2068.1	2069.9	2067.3	2063.0	2055.4
5°	2101.4	2100.6	2101.4	2098.0	2099.7	2096.3	2090.3	2092.0	2087.8	2078.4	2067.3
7.5°	2144.9	2141.5	2141.5	2140.6	2137.2	2132.1	2127.8	2126.1	2121.9	2109.9	2092.9
10°	2201.2	2201.2	2202.0	2195.2	2199.5	2190.1	2185.8	2185.0	2170.5	2155.1	2131.3
12.5°	2275.4	2279.7	2277.1	2273.7	2272.0	2268.6	2254.1	2257.5	2241.3	2214.8	2185.8
15°	2367.5	2374.3	2370.1	2368.4	2364.1	2351.3	2345.3	2342.8	2321.4	2283.1	2244.7
17.5°	2489.5	2480.9	2477.5	2473.3	2455.3	2446.0	2435.7	2434.0	2415.3	2370.1	2310.4
20°	2596.1	2608.0	2601.2	2596.9	2579.0	2561.1	2553.4	2550.9	2534.7	2485.2	2389.7
22.5°	2723.1	2725.7	2728.3	2718.0	2709.5	2695.8	2682.2	2677.9	2672.0	2620.8	2504.0
25°	2858.7	2869.0	2860.4	2850.2	2840.0	2839.1	2851.9	2850.2	2847.6	2798.2	2655.8
27.5°	3079.6	3089.0	3091.6	3080.5	3041.2	3044.7	3073.7	3083.0	3122.3	3040.4	2851.1
30°	3204.1	3213.5	3234.8	3276.6	3338.9	3393.5	3463.4	3484.7	3522.3	3367.9	3083.0
32.5°	3280.9	3284.3	3322.7	3400.3	3587.1	3790.9	3981.1	3988.8	4012.6	3796.0	3295.4
35°	3402.0	3404.6	3435.3	3520.5	3739.7	4079.2	4373.4	4382.8	4363.2	3929.1	3394.3
37.5°	3551.2	3558.1	3577.7	3648.5	3910.3	4320.5	4536.3	4529.5	4355.5	4034.8	3569.2
40°	3768.7	3768.7	3745.7	3841.2	4090.2	4458.7	4593.4	4581.5	4535.4	4341.0	3835.2
42.5°	3960.6	3957.2	4011.8	4076.6	4315.4	4671.9	4833.1	4852.7	4928.6	4725.6	4138.0
45°	4210.5	4225.8	4256.5	4374.2	4698.3	5036.1	5244.1	5262.9	5370.4	5178.5	4491.9
47.5°	4462.9	4468.1	4564.4	4721.4	5172.5	5529.8	5700.4	5731.1	5829.2	5708.1	4873.2
50°	4642.0	4690.6	4845.0	5092.3	5661.2	6132.0	6265.0	6301.7	6474.8	6284.6	5317.5
52.5°	4831.4	4879.1	5067.6	5444.6	6222.4	6747.7	6911.5	6936.2	7116.1	6868.0	5772.1
55°	4993.4	5037.8	5251.8	5756.7	6669.2	7376.3	7673.0	7644.1	7730.2	7317.4	6122.6
57.5°	5019.8	5055.7	5325.2	5956.3	7005.3	7915.3	8340.8	8357.9	8258.1	7653.4	6411.7
60°	4815.2	4888.5	5198.1	5934.9	7156.2	8290.5	8838.9	8850.8	8567.7	7825.7	6526.8
62.5°	4452.7	4445.0	4819.4	5592.1	6944.7	8375.8	9132.3	9119.5	8688.8	7743.0	6415.1
64°	3952.1	4044.2	4393.9	5170.8	6603.6	8244.5	9163.0	9156.1	8630.8	7570.7	6224.9
65°	3646.8	3641.6	3987.1	4826.3	6264.1	8046.6	9108.4	9099.0	8509.7	7416.3	6077.4
67.5°	2632.7	2644.7	2985.8	3724.4	5092.3	7273.1	8752.7	8717.8	8032.1	6904.6	5516.2
70°	1594.8	1601.6	1869.4	2470.7	3655.3	5879.5	7889.7	7891.4	7301.2	6140.5	4694.9
72.5°	840.1	858.0	965.4	1402.9	2220.0	4125.2	6400.6	6552.4	6268.4	5240.7	3709.0
75°	467.4	469.9	545.8	691.7	1132.6	2308.7	4810.9	4854.4	4962.7	4218.2	2742.7
77.5°	356.5	361.6	385.5	446.9	616.6	1070.3	2911.6	3129.9	3497.5	2973.9	1565.0
80°	289.1	294.2	314.7	351.4	410.2	507.4	1352.6	1470.3	1872.0	1320.2	610.6
82.5°	225.2	221.7	248.2	272.1	298.5	300.2	555.2	614.0	762.4	568.0	264.4
85°	167.2	167.2	188.5	183.4	192.7	175.7	244.8	270.4	305.3	241.4	122.8
87.5°	66.5	73.3	123.7	110.9	86.1	69.1	90.4	95.5	105.8	94.7	51.2
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°	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8
2.5°	2056.2	2058.8	2052.8	2048.5	2046.8	2044.3	2041.7	2042.6	2046.0	2049.4	2048.5
5°	2066.4	2067.3	2057.1	2051.9	2048.5	2045.1	2045.1	2047.7	2054.5	2059.6	2059.6
7.5°	2092.0	2092.0	2077.5	2068.1	2063.0	2057.1	2055.4	2056.2	2061.3	2068.1	2069.0
10°	2132.1	2128.7	2109.9	2095.4	2086.1	2071.6	2058.8	2051.9	2054.5	2058.8	2058.8
12.5°	2180.7	2171.3	2147.5	2127.8	2104.8	2077.5	2051.1	2037.4	2036.6	2040.9	2039.2
15°	2232.7	2222.5	2189.3	2153.4	2113.4	2073.3	2041.7	2022.1	2006.7	2002.5	2011.9
17.5°	2293.3	2272.0	2225.9	2176.5	2116.8	2064.7	2015.3	1975.2	1947.9	1940.2	1942.8
20°	2366.6	2338.5	2276.2	2198.6	2114.2	2034.0	1957.3	1903.6	1859.2	1845.6	1847.3
22.5°	2468.1	2419.5	2328.3	2209.7	2092.9	1976.0	1869.4	1799.5	1745.8	1724.5	1737.2
25°	2583.3	2530.4	2377.7	2207.2	2037.4	1883.1	1765.4	1674.1	1625.5	1594.0	1600.8
27.5°	2741.9	2648.1	2430.6	2184.1	1958.1	1769.7	1633.2	1547.1	1502.7	1486.5	1494.2
30°	2944.9	2800.7	2487.7	2121.9	1832.8	1626.4	1500.2	1443.9	1417.4	1397.0	1403.8
32.5°	3091.6	2908.2	2500.5	2017.0	1697.2	1495.9	1409.8	1368.0	1339.0	1319.4	1323.6
35°	3196.5	2999.5	2494.6	1888.2	1555.6	1388.4	1338.1	1304.0	1257.1	1214.5	1206.8
37.5°	3337.2	3113.7	2451.1	1747.5	1415.7	1315.9	1280.1	1217.0	1149.6	1092.5	1089.9
40°	3553.0	3247.6	2358.1	1582.0	1296.3	1262.2	1218.7	1136.8	1064.4	1018.3	1014.9
42.5°	3775.5	3371.3	2231.9	1408.0	1198.2	1205.9	1153.0	1072.0	1027.7	997.8	994.4
45°	4047.6	3505.2	2095.4	1257.1	1125.8	1153.0	1095.9	1049.0	1022.6	1002.9	997.8
47.5°	4341.8	3642.5	1941.9	1121.5	1064.4	1104.4	1072.0	1050.7	1036.2	1022.6	1016.6
50°	4659.1	3796.0	1797.8	1012.3	1008.9	1054.1	1069.5	1061.8	1053.3	1049.0	1043.9
52.5°	5007.1	3952.9	1676.7	935.6	960.3	1018.3	1070.3	1076.3	1076.3	1073.7	1070.3
55°	5242.4	4062.1	1553.9	873.3	910.8	989.3	1068.6	1091.6	1100.2	1096.8	1093.3
57.5°	5416.4	4121.8	1399.5	819.6	869.0	961.2	1059.2	1093.3	1101.9	1106.1	1104.4
60°	5452.2	4066.4	1197.4	763.3	823.8	920.2	1025.1	1067.8	1078.8	1105.3	1107.8
62.5°	5291.1	3895.8	996.1	707.9	768.4	858.0	979.1	1038.8	1060.9	1101.9	1106.1
64°	5093.2	3704.8	884.4	672.9	732.6	823.0	956.0	1031.1	1060.1	1114.7	1118.1
65°	4948.2	3565.7	814.5	650.7	709.6	800.0	943.2	1033.6	1067.8	1134.3	1139.4
67.5°	4414.3	3087.3	673.7	598.7	655.0	760.7	945.8	1055.0	1066.1	1142.0	1141.1
70°	3652.7	2457.9	564.6	550.9	602.1	729.2	935.6	1020.9	1021.7	1072.0	1060.1
72.5°	2735.1	1816.6	489.5	501.5	543.3	654.1	883.5	974.8	960.3	967.1	955.2
75°	1878.8	1201.7	421.3	448.6	481.9	578.2	810.2	885.3	862.2	853.7	845.2
77.5°	1002.9	664.4	350.5	396.6	418.7	499.8	707.0	779.5	755.6	722.4	711.3
80°	406.0	313.0	282.3	328.3	341.1	402.5	588.5	633.7	615.8	557.8	539.0
82.5°	203.8	187.6	221.7	258.4	259.3	287.4	437.5	480.2	440.1	369.3	353.1
85°	106.6	110.0	152.7	181.7	160.3	155.2	262.7	290.8	266.9	232.0	208.9
87.5°	38.4	44.3	80.2	79.3	56.3	29.8	58.0	28.1	15.4	9.4	11.9
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)