

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: P452594

Luminaire Tested: **GALN-SA3C-740-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452594
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-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 20941 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

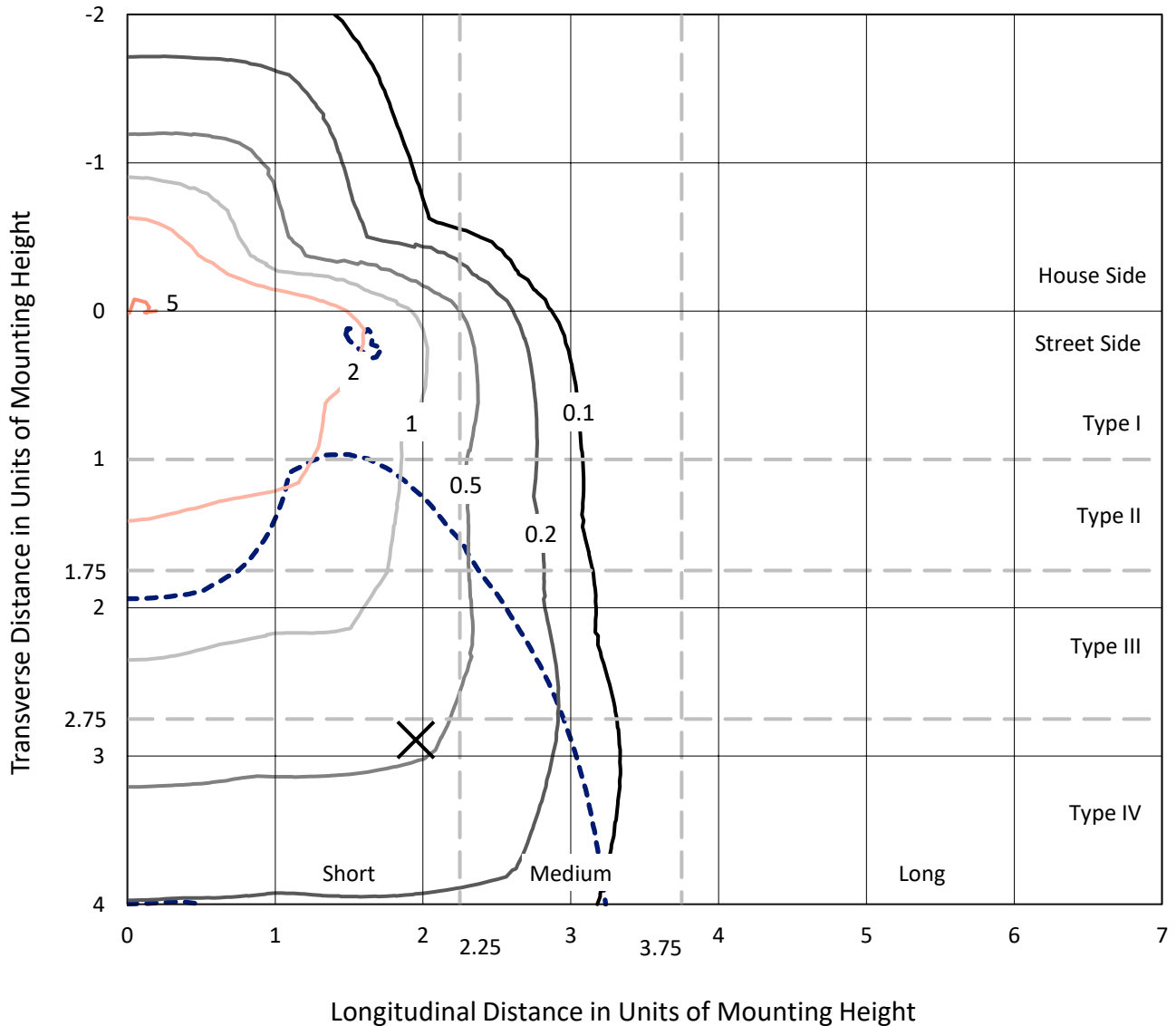
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

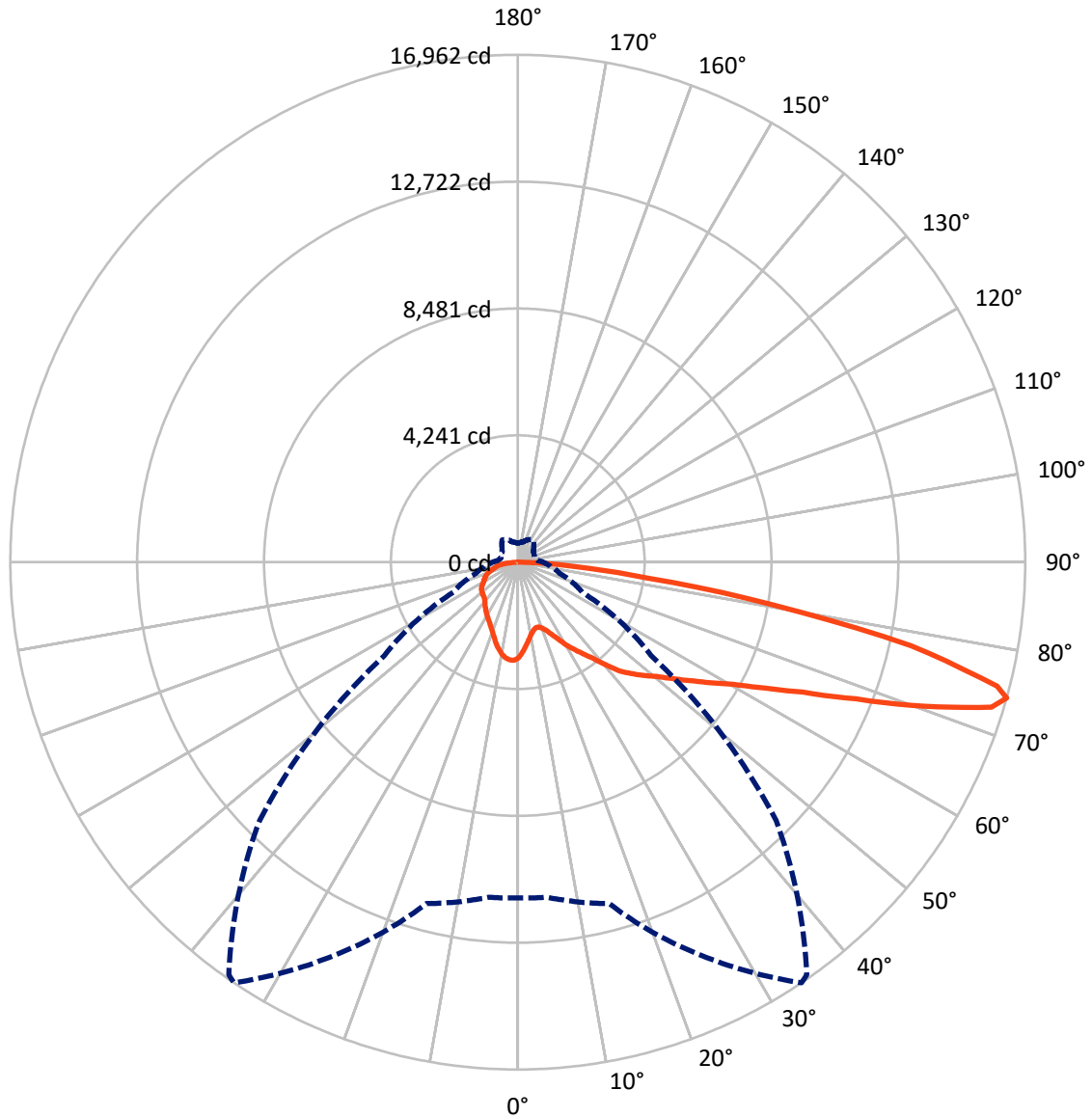
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	4456.4	0.0	4456.4
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	16484.6	0.0	16484.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	20941.0	0.0	20941.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.8	1.4
10°-20°	796.0	3.8
20°-30°	1312.4	6.3
30°-40°	1965.8	9.4
40°-50°	2857.8	13.6
50°-60°	3991.6	19.1
60°-70°	4997.3	23.9
70°-80°	4132.3	19.7
80°-90°	597.1	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°	20941.0	100.0
0°-180°	20941.0	100.0

Coefficient of Utilization



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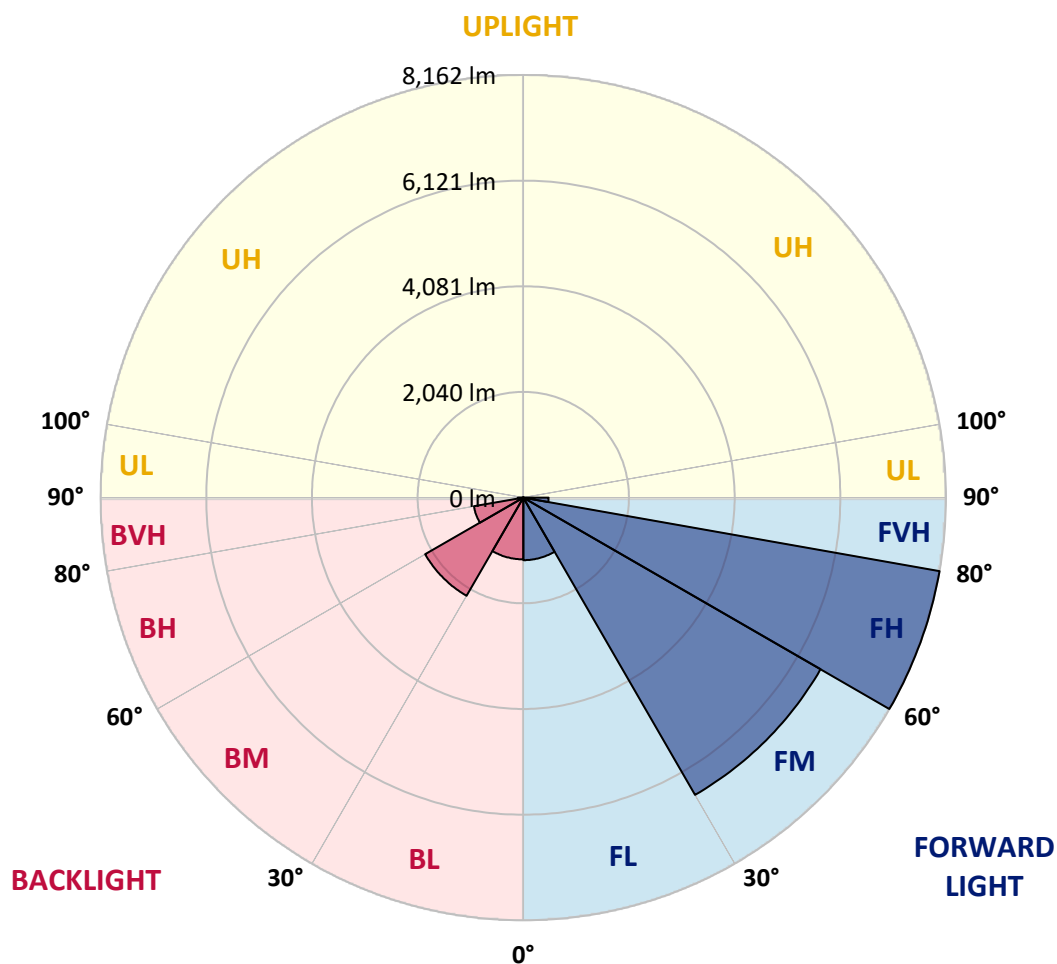
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1207.2	5.8			
FM	(30°-60°)	6626.6	31.6			
FH	(60°-80°)	8161.7	39.0			G4/12000
FVH	(80°-90°)	489.2	2.3			G3/500
BL	(0°-30°)	1192.0	5.7	B3/2500		
BM	(30°-60°)	2188.6	10.5	B2/2500		
BH	(60°-80°)	967.9	4.6	B2/1000		G2/1000
BVH	(80°-90°)	107.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3197.3	3197.3	3197.3	3197.3	3197.3	3197.3	3197.3	3197.3	3197.3	3197.3	3197.3
2.5°	2954.8	2969.9	2978.0	3007.0	3014.0	3023.3	3047.6	3080.1	3121.9	3159.0	3191.5
5°	2708.9	2732.1	2746.0	2771.5	2821.4	2826.0	2891.0	2965.3	3049.9	3128.8	3193.8
7.5°	2475.7	2501.2	2512.8	2559.2	2625.3	2635.8	2730.9	2848.1	2989.6	3109.1	3208.9
10°	2300.5	2313.3	2338.8	2373.6	2452.5	2459.4	2583.6	2740.2	2923.5	3099.8	3234.4
12.5°	2205.4	2212.3	2218.1	2255.3	2333.0	2343.4	2473.4	2650.9	2871.3	3106.8	3276.2
15°	2219.3	2221.6	2196.1	2203.1	2265.7	2280.8	2409.6	2591.7	2838.8	3124.2	3338.8
17.5°	2336.5	2328.4	2265.7	2233.2	2277.3	2284.3	2396.8	2568.5	2823.7	3156.7	3403.8
20°	2520.9	2509.3	2401.4	2329.5	2355.0	2360.8	2438.6	2585.9	2838.8	3210.0	3504.7
22.5°	2750.6	2746.0	2582.4	2495.4	2494.2	2494.2	2534.9	2648.5	2884.0	3283.1	3610.3
25°	3072.0	3047.6	2834.2	2721.6	2690.3	2688.0	2683.3	2751.8	2942.1	3360.9	3735.6
27.5°	3401.5	3359.7	3169.4	2996.6	2929.3	2921.2	2891.0	2898.0	3016.3	3449.0	3878.3
30°	3697.3	3670.6	3491.9	3300.5	3220.5	3201.9	3118.4	3080.1	3140.4	3608.0	4105.6
32.5°	3923.5	3907.3	3768.1	3594.0	3475.7	3472.2	3350.4	3319.1	3334.2	3800.5	4365.5
35°	4106.8	4112.6	4041.8	3891.0	3755.3	3735.6	3654.4	3614.9	3570.8	4079.0	4692.7
37.5°	4357.4	4370.2	4365.5	4235.6	4069.7	4074.3	4055.8	3990.8	3873.6	4389.9	5055.8
40°	4633.5	4642.8	4641.6	4591.7	4504.7	4509.4	4502.4	4428.2	4253.0	4785.5	5459.5
42.5°	5015.2	4971.1	4856.2	4906.1	4957.2	4979.2	5026.8	4956.0	4715.9	5207.8	5838.9
45°	5442.1	5358.6	5098.7	5121.9	5311.0	5352.8	5615.0	5517.5	5218.2	5692.7	6285.5
47.5°	5711.2	5628.9	5409.6	5405.0	5655.6	5696.2	6160.2	6124.2	5675.3	6215.9	6830.8
50°	5951.4	5939.8	5692.7	5751.8	5996.6	6057.0	6754.2	6720.5	6131.2	6833.1	7424.7
52.5°	6307.5	6213.6	6016.4	6138.2	6461.8	6540.7	7343.5	7244.9	6550.0	7378.3	8001.3
55°	6467.6	6445.6	6434.0	6539.6	6983.9	7040.7	7916.6	7690.4	6907.3	7840.1	8439.8
57.5°	6895.7	6855.1	6970.0	7041.9	7598.8	7685.8	8515.2	8155.6	7220.6	8206.7	8653.3
60°	7450.3	7428.2	7533.8	7663.7	8285.5	8417.8	9197.4	8552.4	7472.3	8391.1	8536.1
62.5°	8278.6	8276.3	8256.5	8535.0	9258.9	9380.7	9980.5	8938.7	7511.7	8253.1	7930.5
65°	9466.5	9424.8	9253.1	9557.0	10470.0	10612.7	10796.0	9154.5	7273.9	7544.2	6677.6
67.5°	10709.0	10706.7	10567.5	10961.9	12209.0	12356.4	11815.8	9106.9	6613.8	6111.5	4742.5
70°	11739.2	11689.3	11866.8	12917.9	14430.7	14601.2	12707.9	8546.6	5268.1	4036.0	2817.9
72.5°	11986.3	11988.6	12357.5	14426.0	16564.1	16590.8	13029.2	6927.0	3525.6	2226.3	1409.5
74°	11225.3	11245.0	11816.9	14501.4	16962.0	16841.4	12207.9	5444.4	2384.0	1453.6	1016.3
75°	10246.1	10122.0	10949.2	13999.1	16549.0	16419.1	11246.2	4369.0	1819.1	1161.3	889.8
77.5°	5478.1	5604.5	6880.6	10446.8	13444.6	13294.9	7625.4	2095.2	982.6	808.6	640.4
80°	1950.2	2150.9	3023.3	5466.5	8619.7	8666.1	3639.3	960.6	691.4	596.3	452.4
82.5°	795.8	817.9	1298.2	2425.8	4377.1	4418.9	1486.1	570.8	494.2	410.7	270.3
85°	310.9	320.2	574.3	1090.5	1867.8	1989.6	513.9	301.6	304.0	235.5	138.1
87.5°	104.4	118.3	235.5	363.1	634.6	621.8	149.7	89.3	109.1	102.1	42.9
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°	3197.3	3197.3	3197.3	3197.3	3197.3	3197.3	3197.3	3197.3	3197.3	3197.3	3197.3
2.5°	3207.7	3229.8	3244.8	3261.1	3276.2	3280.8	3277.3	3287.8	3288.9	3290.1	3291.2
5°	3226.3	3256.4	3285.4	3301.7	3308.6	3302.8	3283.1	3272.7	3263.4	3256.4	3258.8
7.5°	3251.8	3294.7	3321.4	3328.4	3309.8	3283.1	3234.4	3196.1	3171.8	3155.5	3154.4
10°	3291.2	3333.0	3355.1	3335.3	3284.3	3219.3	3142.8	3070.8	3016.3	3000.1	2998.9
12.5°	3341.1	3388.7	3387.5	3329.5	3240.2	3124.2	3000.1	2916.5	2842.3	2805.2	2820.2
15°	3406.1	3442.1	3408.4	3304.0	3162.5	3003.5	2850.4	2736.7	2653.2	2613.7	2616.1
17.5°	3481.5	3512.8	3423.5	3258.8	3053.4	2849.2	2671.7	2563.9	2497.7	2468.7	2466.4
20°	3575.5	3584.8	3423.5	3179.9	2913.0	2669.4	2500.0	2424.6	2387.5	2372.4	2377.1
22.5°	3676.4	3657.8	3404.9	3068.5	2728.6	2481.5	2367.8	2334.2	2315.6	2313.3	2315.6
25°	3790.1	3737.9	3366.7	2917.7	2536.0	2319.1	2252.9	2258.7	2262.2	2262.2	2270.3
27.5°	3929.3	3824.9	3302.8	2727.4	2310.9	2168.3	2149.7	2190.3	2208.9	2212.3	2218.1
30°	4112.6	3920.0	3197.3	2489.6	2119.5	2032.5	2065.0	2119.5	2140.4	2153.2	2150.9
32.5°	4330.7	4024.4	3054.6	2251.8	1965.2	1937.4	1976.8	2032.5	2055.7	2062.7	2053.4
35°	4587.1	4142.8	2866.6	2029.0	1830.7	1846.9	1893.3	1910.7	1931.6	1931.6	1936.2
37.5°	4863.2	4237.9	2636.9	1824.9	1726.3	1785.4	1819.1	1802.8	1793.5	1781.9	1787.7
40°	5143.9	4308.7	2338.8	1623.0	1621.8	1721.6	1730.9	1684.5	1647.4	1635.8	1630.0
42.5°	5388.7	4352.8	2069.6	1466.4	1523.2	1659.0	1665.9	1591.7	1532.5	1497.7	1486.1
45°	5677.6	4403.8	1806.3	1336.5	1431.6	1609.1	1626.5	1526.7	1439.7	1366.6	1348.1
47.5°	6073.2	4519.8	1598.6	1235.5	1365.5	1577.8	1602.1	1473.3	1358.5	1263.4	1248.3
50°	6519.8	4678.7	1437.4	1167.1	1314.4	1549.9	1580.1	1418.8	1283.1	1177.5	1165.9
52.5°	6929.4	4764.6	1298.2	1105.6	1264.5	1498.9	1551.1	1379.4	1208.8	1091.7	1081.2
55°	7153.3	4625.4	1161.3	1045.3	1196.1	1432.7	1510.5	1324.9	1136.9	1046.4	1031.3
57.5°	7183.4	4337.7	1037.1	980.3	1124.2	1351.5	1435.1	1258.7	1090.5	1015.1	1002.3
60°	6950.2	3908.4	940.9	926.9	1051.1	1259.9	1350.4	1200.7	1042.9	980.3	967.5
62.5°	6370.2	3442.1	873.6	878.2	976.8	1163.6	1287.7	1145.0	997.7	942.0	930.4
65°	5372.5	2841.1	808.6	828.3	910.7	1088.2	1230.9	1098.6	952.5	913.0	902.6
67.5°	3732.1	2051.1	755.2	776.1	848.0	1011.6	1164.8	1048.7	901.4	880.5	864.3
70°	2066.2	1262.2	692.6	717.0	783.1	925.8	1090.5	973.3	827.2	817.9	794.7
72.5°	1085.9	804.0	621.8	648.5	694.9	815.6	976.8	891.0	754.1	714.6	684.5
74°	848.0	658.9	574.3	602.1	633.4	750.6	909.5	831.8	701.9	655.5	632.3
75°	739.0	587.0	533.7	569.6	597.5	706.5	857.3	790.0	672.9	628.8	607.9
77.5°	522.1	439.7	436.2	479.1	494.2	619.5	772.6	719.3	599.8	553.4	533.7
80°	366.6	329.5	345.7	372.4	393.3	547.6	717.0	621.8	491.9	437.4	430.4
82.5°	239.0	215.8	247.1	271.5	278.4	403.7	578.9	472.2	358.5	291.2	270.3
85°	110.2	107.9	141.5	138.1	136.9	197.2	343.4	276.1	206.5	154.3	145.0
87.5°	27.8	26.7	34.8	29.0	34.8	30.2	31.3	8.1	1.2	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)