

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: P452358

Luminaire Tested: **GALN-SA3B-740-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452358
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-SA3B-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16845 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

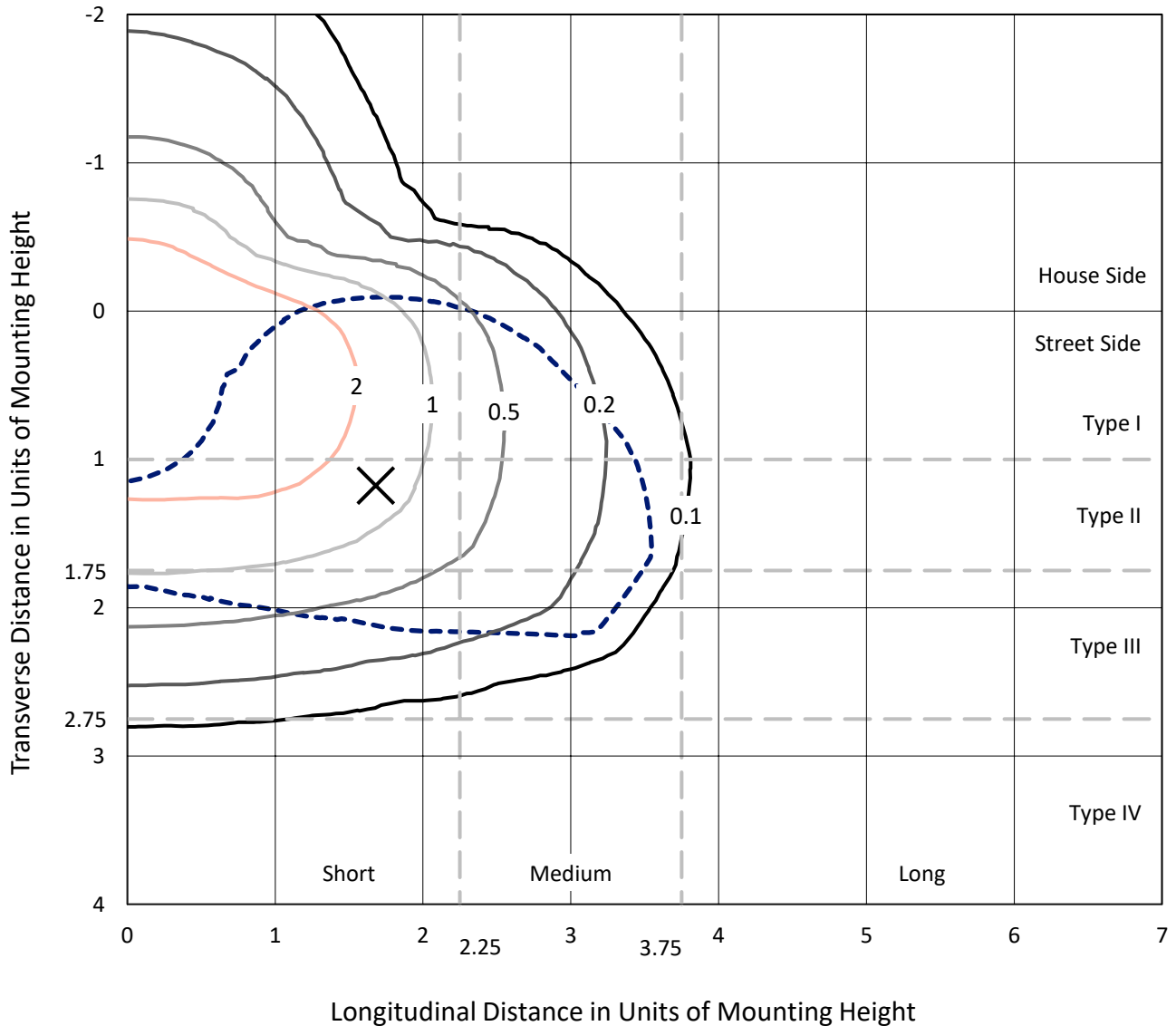
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

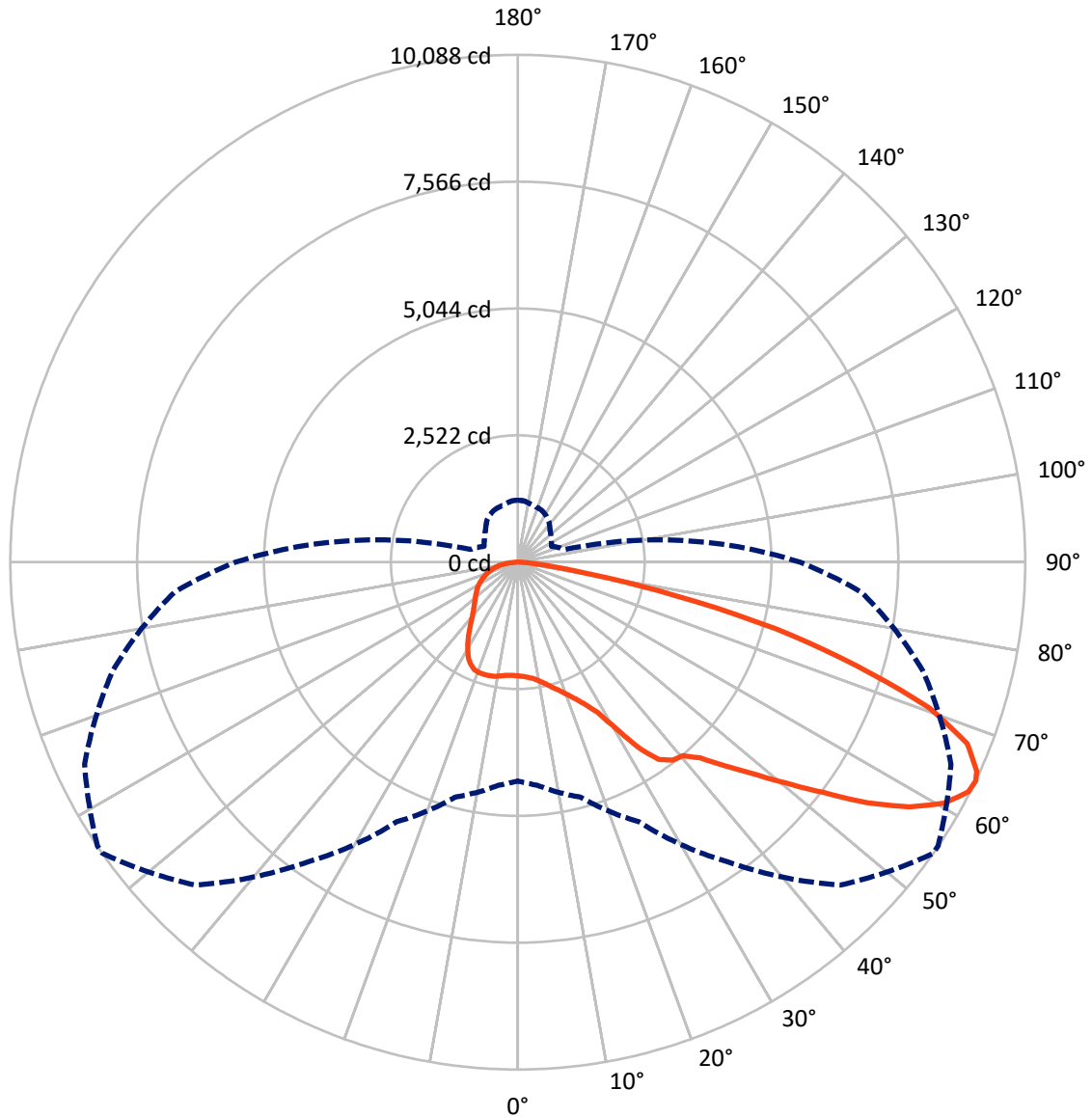
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	4092.0	0.0	4092.0
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	12753.0	0.0	12753.0
	% Fixture	75.7	0.0	75.7
Total	Lumens	16845.0	0.0	16845.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.8	1.3
10°-20°	693.7	4.1
20°-30°	1234.9	7.3
30°-40°	1900.1	11.3
40°-50°	2693.5	16.0
50°-60°	3898.8	23.1
60°-70°	4034.9	24.0
70°-80°	1889.5	11.2
80°-90°	279.7	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°	16845.0	100.0
0°-180°	16845.0	100.0

Coefficient of Utilization



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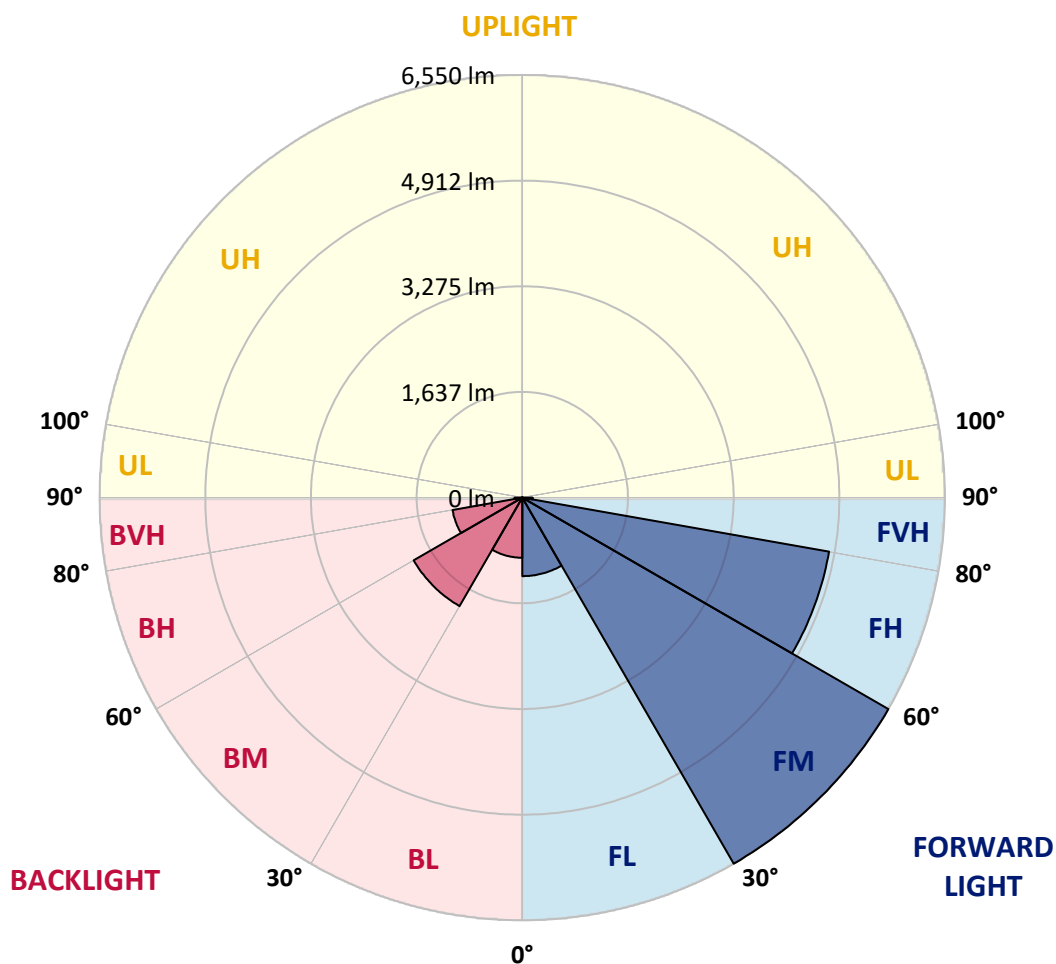
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1216.5	7.2			
FM	(30°-60°)	6549.8	38.9			
FH	(60°-80°)	4826.6	28.7			G2/5000
FVH	(80°-90°)	160.2	1.0			G2/225
BL	(0°-30°)	932.0	5.5	B2/1000		
BM	(30°-60°)	1942.6	11.5	B2/2500		
BH	(60°-80°)	1097.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	119.6	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2260.1	2260.1	2260.1	2260.1	2260.1	2260.1	2260.1	2260.1	2260.1	2260.1	2260.1
2.5°	2285.4	2284.5	2287.3	2284.5	2286.4	2279.8	2277.0	2278.9	2276.1	2271.4	2262.9
5°	2313.6	2312.7	2313.6	2309.9	2311.7	2308.0	2301.4	2303.3	2298.6	2288.3	2276.1
7.5°	2361.5	2357.7	2357.7	2356.8	2353.0	2347.4	2342.7	2340.8	2336.1	2323.0	2304.2
10°	2423.5	2423.5	2424.4	2416.9	2421.6	2411.3	2406.6	2405.6	2389.7	2372.8	2346.5
12.5°	2505.2	2509.9	2507.0	2503.3	2501.4	2497.6	2481.7	2485.4	2467.6	2438.5	2406.6
15°	2606.6	2614.1	2609.4	2607.5	2602.8	2588.7	2582.2	2579.3	2555.9	2513.6	2471.4
17.5°	2740.8	2731.5	2727.7	2723.0	2703.3	2693.0	2681.7	2679.8	2659.2	2609.4	2543.7
20°	2858.2	2871.4	2863.8	2859.2	2839.4	2819.7	2811.3	2808.4	2790.6	2736.1	2631.0
22.5°	2998.1	3000.9	3003.8	2992.5	2983.1	2968.1	2953.0	2948.4	2941.8	2885.4	2756.8
25°	3147.4	3158.7	3149.3	3138.0	3126.8	3125.8	3139.9	3138.0	3135.2	3080.7	2923.9
27.5°	3390.6	3400.9	3403.8	3391.5	3348.4	3352.1	3384.0	3394.4	3437.6	3347.4	3139.0
30°	3527.7	3538.0	3561.5	3607.5	3676.1	3736.1	3813.1	3836.6	3877.9	3708.0	3394.4
32.5°	3612.2	3616.0	3658.2	3743.7	3949.3	4173.7	4383.1	4391.5	4417.8	4179.3	3628.2
35°	3745.5	3748.4	3782.2	3876.1	4117.4	4491.1	4815.0	4825.3	4803.7	4325.8	3737.1
37.5°	3909.9	3917.4	3939.0	4016.9	4305.2	4756.8	4994.4	4986.8	4795.3	4442.2	3929.6
40°	4149.3	4149.3	4123.9	4229.1	4503.3	4908.9	5057.3	5044.1	4993.4	4779.3	4222.5
42.5°	4360.6	4356.8	4416.9	4488.3	4751.2	5143.7	5321.1	5342.7	5426.3	5202.8	4555.9
45°	4635.7	4652.6	4686.4	4816.0	5172.8	5544.6	5773.7	5794.4	5912.7	5701.4	4945.5
47.5°	4913.6	4919.2	5025.3	5198.1	5694.8	6088.3	6276.0	6309.8	6417.8	6284.5	5365.3
50°	5110.8	5164.3	5334.3	5606.6	6232.9	6751.2	6897.6	6938.0	7128.6	6919.2	5854.5
52.5°	5319.2	5371.8	5579.3	5994.4	6850.7	7429.1	7609.4	7636.6	7834.7	7561.5	6354.9
55°	5497.6	5546.5	5782.2	6338.0	7342.7	8121.1	8447.9	8416.0	8510.8	8056.3	6740.8
57.5°	5526.8	5566.2	5862.9	6557.7	7712.7	8714.5	9183.1	9201.9	9092.0	8426.3	7059.1
60°	5301.4	5382.2	5723.0	6534.3	7878.9	9127.7	9731.4	9744.6	9432.8	8615.9	7185.9
62.5°	4902.3	4893.9	5306.1	6156.8	7646.0	9221.6	10054.4	10040.4	9566.2	8524.9	7062.9
64°	4351.2	4452.6	4837.6	5692.9	7270.4	9077.0	10088.2	10080.7	9502.3	8335.2	6853.5
65°	4015.0	4009.4	4389.7	5313.6	6896.7	8859.1	10028.2	10017.8	9369.0	8165.2	6691.1
67.5°	2898.6	2911.7	3287.3	4100.5	5606.6	8007.5	9636.6	9598.1	8843.2	7601.9	6073.2
70°	1755.9	1763.4	2058.2	2720.2	4024.4	6473.2	8686.4	8688.3	8038.5	6760.6	5169.0
72.5°	924.9	944.6	1062.9	1544.6	2444.1	4541.8	7046.9	7214.1	6901.4	5769.9	4083.6
75°	514.6	517.4	600.9	761.5	1246.9	2541.8	5296.7	5344.6	5463.8	4644.1	3019.7
77.5°	392.5	398.1	424.4	492.0	678.9	1178.4	3205.6	3446.0	3850.7	3274.2	1723.0
80°	318.3	323.9	346.5	386.9	451.6	558.7	1489.2	1618.8	2061.0	1453.5	672.3
82.5°	247.9	244.1	273.2	299.5	328.6	330.5	611.3	676.1	839.4	625.4	291.1
85°	184.0	184.0	207.5	201.9	212.2	193.4	269.5	297.7	336.1	265.7	135.2
87.5°	73.2	80.8	136.2	122.1	94.8	76.1	99.5	105.2	116.4	104.2	56.3
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°	2260.1	2260.1	2260.1	2260.1	2260.1	2260.1	2260.1	2260.1	2260.1	2260.1	2260.1
2.5°	2263.8	2266.7	2260.1	2255.4	2253.5	2250.7	2247.9	2248.8	2252.6	2256.3	2255.4
5°	2275.1	2276.1	2264.8	2259.2	2255.4	2251.6	2251.6	2254.5	2262.0	2267.6	2267.6
7.5°	2303.3	2303.3	2287.3	2277.0	2271.4	2264.8	2262.9	2263.8	2269.5	2277.0	2277.9
10°	2347.4	2343.7	2323.0	2307.0	2296.7	2280.7	2266.7	2259.2	2262.0	2266.7	2266.7
12.5°	2400.9	2390.6	2364.3	2342.7	2317.4	2287.3	2258.2	2243.2	2242.3	2246.9	2245.1
15°	2458.2	2446.9	2410.3	2370.9	2326.8	2282.6	2247.9	2226.3	2209.4	2204.7	2215.0
17.5°	2524.9	2501.4	2450.7	2396.2	2330.5	2273.2	2218.8	2174.6	2144.6	2136.1	2139.0
20°	2605.6	2574.6	2506.1	2420.7	2327.7	2239.4	2154.9	2095.8	2046.9	2031.9	2033.8
22.5°	2717.4	2663.8	2563.4	2432.9	2304.2	2175.6	2058.2	1981.2	1922.1	1898.6	1912.7
25°	2844.1	2785.9	2617.8	2430.0	2243.2	2073.2	1943.7	1843.2	1789.7	1754.9	1762.4
27.5°	3018.8	2915.5	2676.1	2404.7	2155.9	1948.4	1798.1	1703.3	1654.5	1636.6	1645.1
30°	3242.2	3083.6	2739.0	2336.1	2017.8	1790.6	1651.6	1589.7	1560.6	1538.0	1545.5
32.5°	3403.8	3201.9	2753.0	2220.7	1868.5	1646.9	1552.1	1506.1	1474.2	1452.6	1457.3
35°	3519.2	3302.3	2746.5	2078.9	1712.7	1528.6	1473.2	1435.7	1384.0	1337.1	1328.6
37.5°	3674.2	3428.2	2698.6	1923.9	1558.7	1448.8	1409.4	1339.9	1265.7	1202.8	1200.0
40°	3911.7	3575.6	2596.2	1741.8	1427.2	1389.7	1341.8	1251.6	1171.8	1121.1	1117.4
42.5°	4156.8	3711.7	2457.3	1550.2	1319.2	1327.7	1269.5	1180.3	1131.5	1098.6	1094.8
45°	4456.3	3859.1	2307.0	1384.0	1239.4	1269.5	1206.6	1154.9	1125.8	1104.2	1098.6
47.5°	4780.3	4010.3	2138.0	1234.7	1171.8	1216.0	1180.3	1156.8	1140.8	1125.8	1119.2
50°	5129.6	4179.3	1979.3	1114.6	1110.8	1160.6	1177.5	1169.0	1159.6	1154.9	1149.3
52.5°	5512.7	4352.1	1846.0	1030.0	1057.3	1121.1	1178.4	1185.0	1185.0	1182.2	1178.4
55°	5771.8	4472.3	1710.8	961.5	1002.8	1089.2	1176.5	1201.9	1211.3	1207.5	1203.8
57.5°	5963.4	4538.0	1540.8	902.3	956.8	1058.2	1166.2	1203.8	1213.1	1217.8	1216.0
60°	6002.8	4477.0	1318.3	840.4	907.0	1013.1	1128.6	1175.6	1187.8	1216.9	1219.7
62.5°	5825.3	4289.2	1096.7	779.3	846.0	944.6	1077.9	1143.7	1168.1	1213.1	1217.8
64°	5607.5	4078.9	973.7	740.8	806.6	906.1	1052.6	1135.2	1167.1	1227.2	1231.0
65°	5447.9	3925.8	896.7	716.4	781.2	880.7	1038.5	1138.0	1175.6	1248.8	1254.5
67.5°	4860.1	3399.1	741.8	659.2	721.1	837.6	1041.3	1161.5	1173.7	1257.3	1256.3
70°	4021.6	2706.1	621.6	606.6	662.9	802.8	1030.0	1123.9	1124.9	1180.3	1167.1
72.5°	3011.3	2000.0	539.0	552.1	598.1	720.2	972.8	1073.2	1057.3	1064.8	1051.6
75°	2068.5	1323.0	463.8	493.9	530.5	636.6	892.0	974.6	949.3	939.9	930.5
77.5°	1104.2	731.5	385.9	436.6	461.0	550.2	778.4	858.2	831.9	795.3	783.1
80°	446.9	344.6	310.8	361.5	375.6	443.2	647.9	697.7	677.9	614.1	593.4
82.5°	224.4	206.6	244.1	284.5	285.4	316.4	481.7	528.6	484.5	406.6	388.7
85°	117.4	121.1	168.1	200.0	176.5	170.9	289.2	320.2	293.9	255.4	230.0
87.5°	42.3	48.8	88.3	87.3	62.0	32.9	63.8	31.0	16.9	10.3	13.1
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)