

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: P452706

Luminaire Tested: **GALN-SA3C-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452706
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-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16538 lumens
Efficiency: N/A
Efficacy: 103.4 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): 160
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

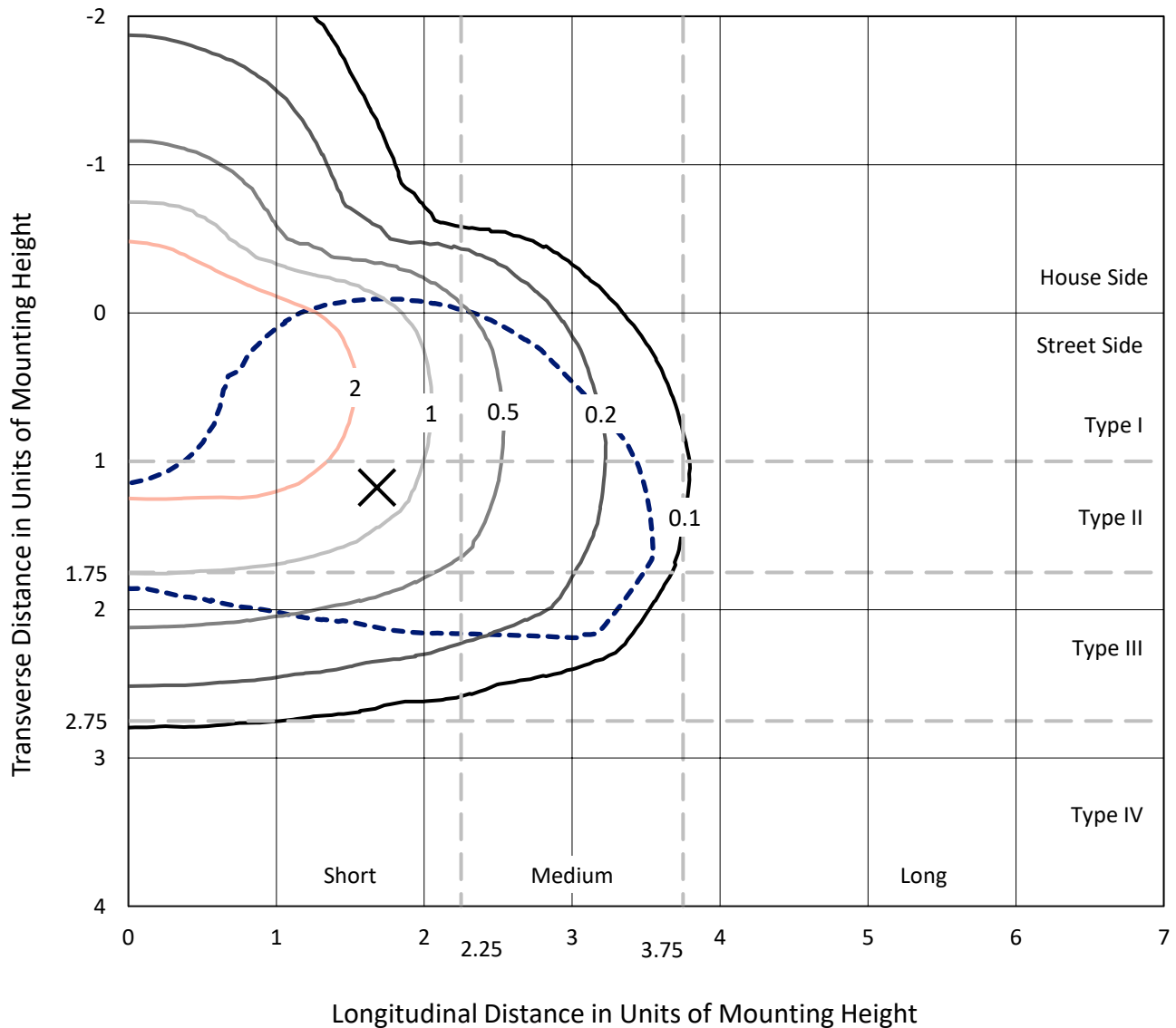


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

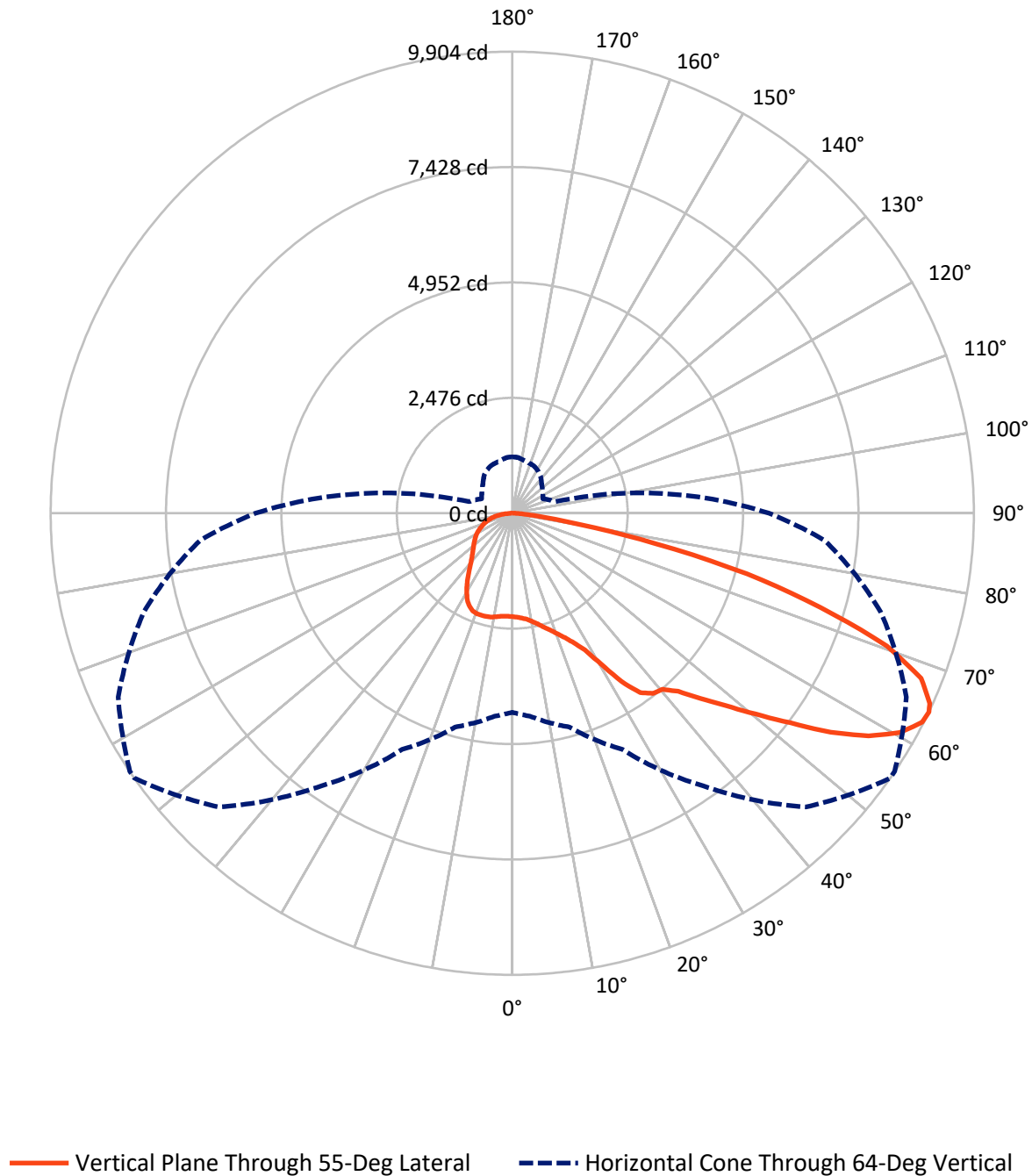


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4017.4	0.0	4017.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	12520.6	0.0	12520.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	16538.0	0.0	16538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.8	1.3
10°-20°	681.0	4.1
20°-30°	1212.4	7.3
30°-40°	1865.5	11.3
40°-50°	2644.4	16.0
50°-60°	3827.8	23.1
60°-70°	3961.3	24.0
70°-80°	1855.1	11.2
80°-90°	274.6	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°	16538.0	100.0
0°-180°	16538.0	100.0

Coefficient of Utilization



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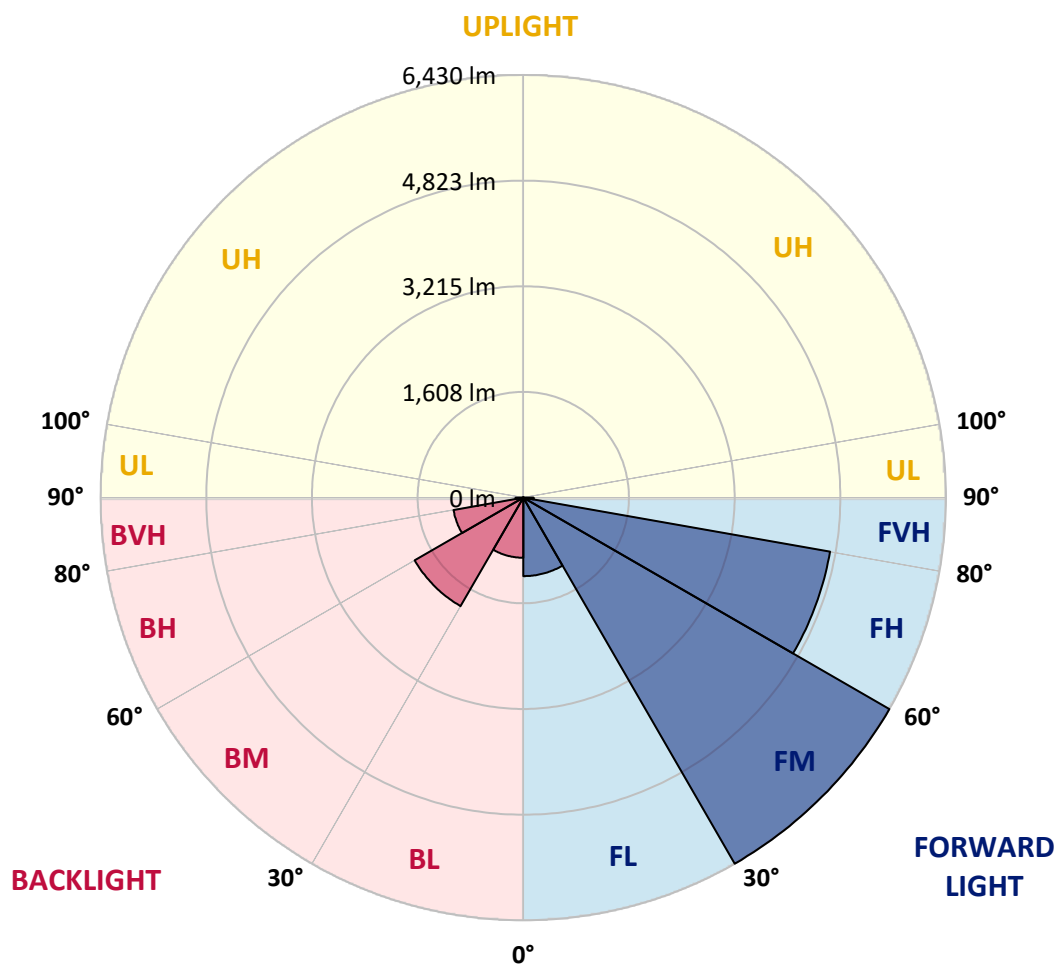
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1194.3	7.2			
FM	(30°-60°)	6430.4	38.9			
FH	(60°-80°)	4738.6	28.7			G2/5000
FVH	(80°-90°)	157.2	1.0			G2/225
BL	(0°-30°)	915.0	5.5	B2/1000		
BM	(30°-60°)	1907.2	11.5	B2/2500		
BH	(60°-80°)	1077.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	117.4	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°	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9
2.5°	2243.8	2242.9	2245.6	2242.9	2244.7	2238.3	2235.5	2237.3	2234.6	2230.0	2221.7
5°	2271.4	2270.5	2271.4	2267.8	2269.6	2265.9	2259.5	2261.3	2256.7	2246.6	2234.6
7.5°	2318.5	2314.8	2314.8	2313.9	2310.2	2304.6	2300.0	2298.2	2293.6	2280.7	2262.2
10°	2379.3	2379.3	2380.2	2372.8	2377.5	2367.3	2362.7	2361.8	2346.1	2329.5	2303.7
12.5°	2459.5	2464.1	2461.3	2457.7	2455.8	2452.1	2436.5	2440.1	2422.6	2394.1	2362.7
15°	2559.1	2566.4	2561.8	2560.0	2555.4	2541.5	2535.1	2532.3	2509.3	2467.8	2426.3
17.5°	2690.9	2681.7	2678.0	2673.4	2654.0	2643.9	2632.8	2631.0	2610.7	2561.8	2497.3
20°	2806.1	2819.0	2811.7	2807.0	2787.7	2768.3	2760.0	2757.3	2739.7	2686.3	2583.0
22.5°	2943.5	2946.2	2949.0	2937.9	2928.7	2914.0	2899.2	2894.6	2888.2	2832.9	2706.6
25°	3090.1	3101.1	3091.9	3080.8	3069.8	3068.8	3082.7	3080.8	3078.1	3024.6	2870.7
27.5°	3328.8	3339.0	3341.7	3329.7	3287.3	3291.0	3322.4	3332.5	3374.9	3286.4	3081.8
30°	3463.4	3473.5	3496.6	3541.8	3609.1	3668.1	3743.6	3766.7	3807.3	3640.4	3332.5
32.5°	3546.4	3550.1	3591.5	3675.4	3877.3	4097.6	4303.2	4311.5	4337.3	4103.2	3562.0
35°	3677.3	3680.0	3713.2	3805.4	4042.3	4409.2	4727.3	4737.4	4716.2	4247.0	3669.0
37.5°	3838.6	3846.0	3867.2	3943.7	4226.7	4670.1	4903.3	4896.0	4707.9	4361.3	3858.0
40°	4073.7	4073.7	4048.8	4152.0	4421.2	4819.4	4965.1	4952.2	4902.4	4692.2	4145.6
42.5°	4281.1	4277.4	4336.4	4406.5	4664.6	5049.9	5224.1	5245.3	5327.4	5108.0	4472.8
45°	4551.2	4567.8	4601.0	4728.2	5078.5	5443.5	5668.5	5688.8	5804.9	5597.5	4855.4
47.5°	4824.1	4829.6	4933.8	5103.4	5591.0	5977.3	6161.7	6194.9	6300.9	6170.0	5267.5
50°	5017.6	5070.2	5237.0	5504.4	6119.3	6628.1	6771.9	6811.6	6998.7	6793.1	5747.8
52.5°	5222.3	5273.9	5477.7	5885.1	6725.8	7293.7	7470.7	7497.4	7691.9	7423.7	6239.1
55°	5397.4	5445.4	5676.8	6222.5	7208.9	7973.1	8293.9	8262.6	8355.7	7909.5	6618.0
57.5°	5426.0	5464.7	5756.1	6438.2	7572.1	8555.7	9015.7	9034.2	8926.3	8272.7	6930.5
60°	5204.8	5284.1	5618.7	6415.2	7735.3	8961.3	9554.1	9567.0	9260.9	8458.9	7054.9
62.5°	4813.0	4804.7	5209.4	6044.6	7506.6	9053.5	9871.2	9857.4	9391.8	8369.5	6934.2
64°	4271.9	4371.4	4749.4	5589.2	7137.9	8911.6	9904.4	9897.0	9329.2	8183.3	6728.6
65°	3941.8	3936.3	4309.7	5216.8	6771.0	8697.7	9845.4	9835.3	9198.3	8016.4	6569.1
67.5°	2845.8	2858.7	3227.4	4025.7	5504.4	7861.6	9461.0	9423.2	8682.0	7463.3	5962.5
70°	1723.9	1731.2	2020.7	2670.6	3951.1	6355.3	8528.1	8529.9	7892.0	6637.3	5074.8
72.5°	908.0	927.4	1043.5	1516.4	2399.6	4459.0	6918.5	7082.6	6775.6	5664.8	4009.1
75°	505.2	507.9	590.0	747.6	1224.2	2495.5	5200.2	5247.2	5364.3	4559.5	2964.7
77.5°	385.3	390.9	416.7	483.1	666.5	1156.9	3147.2	3383.2	3780.5	3214.5	1691.6
80°	312.5	318.0	340.2	379.8	443.4	548.5	1462.1	1589.3	2023.5	1427.0	660.0
82.5°	243.4	239.7	268.3	294.1	322.6	324.5	600.1	663.7	824.1	614.0	285.8
85°	180.7	180.7	203.7	198.2	208.3	189.9	264.6	292.2	330.0	260.9	132.7
87.5°	71.9	79.3	133.7	119.8	93.1	74.7	97.7	103.2	114.3	102.3	55.3
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°	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9
2.5°	2222.6	2225.4	2218.9	2214.3	2212.4	2209.7	2206.9	2207.8	2211.5	2215.2	2214.3
5°	2233.7	2234.6	2223.5	2218.0	2214.3	2210.6	2210.6	2213.4	2220.7	2226.3	2226.3
7.5°	2261.3	2261.3	2245.6	2235.5	2230.0	2223.5	2221.7	2222.6	2228.1	2235.5	2236.4
10°	2304.6	2300.9	2280.7	2265.0	2254.9	2239.2	2225.4	2218.0	2220.7	2225.4	2225.4
12.5°	2357.2	2347.0	2321.2	2300.0	2275.1	2245.6	2217.1	2202.3	2201.4	2206.0	2204.2
15°	2413.4	2402.3	2366.4	2327.7	2284.4	2241.0	2206.9	2185.7	2169.1	2164.5	2174.7
17.5°	2478.9	2455.8	2406.0	2352.6	2288.0	2231.8	2178.3	2135.0	2105.5	2097.2	2100.0
20°	2558.1	2527.7	2460.4	2376.5	2285.3	2198.6	2115.7	2057.6	2009.6	1994.9	1996.7
22.5°	2667.8	2615.3	2516.7	2388.5	2262.2	2135.9	2020.7	1945.1	1887.0	1864.0	1877.8
25°	2792.3	2735.1	2570.1	2385.8	2202.3	2035.5	1908.2	1809.6	1757.1	1722.9	1730.3
27.5°	2963.8	2862.4	2627.3	2360.9	2116.6	1912.8	1765.3	1672.2	1624.3	1606.8	1615.1
30°	3183.2	3027.4	2689.0	2293.6	1981.1	1758.0	1621.5	1560.7	1532.1	1510.0	1517.4
32.5°	3341.7	3143.5	2702.9	2180.2	1834.5	1616.9	1523.8	1478.7	1447.3	1426.1	1430.7
35°	3455.1	3242.2	2696.4	2041.0	1681.5	1500.8	1446.4	1409.5	1358.8	1312.7	1304.4
37.5°	3607.2	3365.7	2649.4	1888.9	1530.3	1422.4	1383.7	1315.5	1242.7	1180.9	1178.1
40°	3840.4	3510.4	2548.9	1710.0	1401.2	1364.3	1317.3	1228.8	1150.5	1100.7	1097.0
42.5°	4081.0	3644.1	2412.5	1522.0	1295.2	1303.5	1246.3	1158.8	1110.8	1078.6	1074.9
45°	4375.1	3788.8	2265.0	1358.8	1216.8	1246.3	1184.6	1133.9	1105.3	1084.1	1078.6
47.5°	4693.2	3937.2	2099.1	1212.2	1150.5	1193.8	1158.8	1135.7	1120.1	1105.3	1098.8
50°	5036.1	4103.2	1943.3	1094.2	1090.6	1139.4	1156.0	1147.7	1138.5	1133.9	1128.3
52.5°	5412.2	4272.8	1812.4	1011.3	1038.0	1100.7	1156.9	1163.4	1163.4	1160.6	1156.9
55°	5666.6	4390.8	1679.6	944.0	984.5	1069.3	1155.1	1180.0	1189.2	1185.5	1181.8
57.5°	5854.7	4455.3	1512.8	885.9	939.4	1038.9	1144.9	1181.8	1191.0	1195.6	1193.8
60°	5893.4	4395.4	1294.3	825.1	890.5	994.7	1108.1	1154.2	1166.1	1194.7	1197.5
62.5°	5719.2	4211.0	1076.7	765.1	830.6	927.4	1058.3	1122.8	1146.8	1191.0	1195.6
64°	5505.3	4004.5	956.0	727.3	791.9	889.6	1033.4	1114.5	1145.9	1204.9	1208.5
65°	5348.6	3854.3	880.4	703.4	767.0	864.7	1019.6	1117.3	1154.2	1226.1	1231.6
67.5°	4771.5	3337.1	728.3	647.1	708.0	822.3	1022.3	1140.3	1152.3	1234.4	1233.4
70°	3948.3	2656.8	610.3	595.5	650.8	788.2	1011.3	1103.5	1104.4	1158.8	1145.9
72.5°	2956.4	1963.5	529.1	542.0	587.2	707.1	955.0	1053.7	1038.0	1045.4	1032.5
75°	2030.8	1298.9	455.4	484.9	520.8	625.0	875.8	956.9	932.0	922.8	913.6
77.5°	1084.1	718.1	378.9	428.7	452.6	540.2	764.2	842.6	816.8	780.8	768.8
80°	438.8	338.3	305.1	354.9	368.7	435.1	636.1	684.9	665.6	602.9	582.6
82.5°	220.3	202.8	239.7	279.3	280.2	310.7	472.9	519.0	475.7	399.2	381.6
85°	115.2	118.9	165.0	196.4	173.3	167.8	283.9	314.4	288.5	250.7	225.9
87.5°	41.5	47.9	86.7	85.7	60.8	32.3	62.7	30.4	16.6	10.1	12.9
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)