

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: P647358

Luminaire Tested: **GALN-SA3D-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647358
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-SA3D-835-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17931.5 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

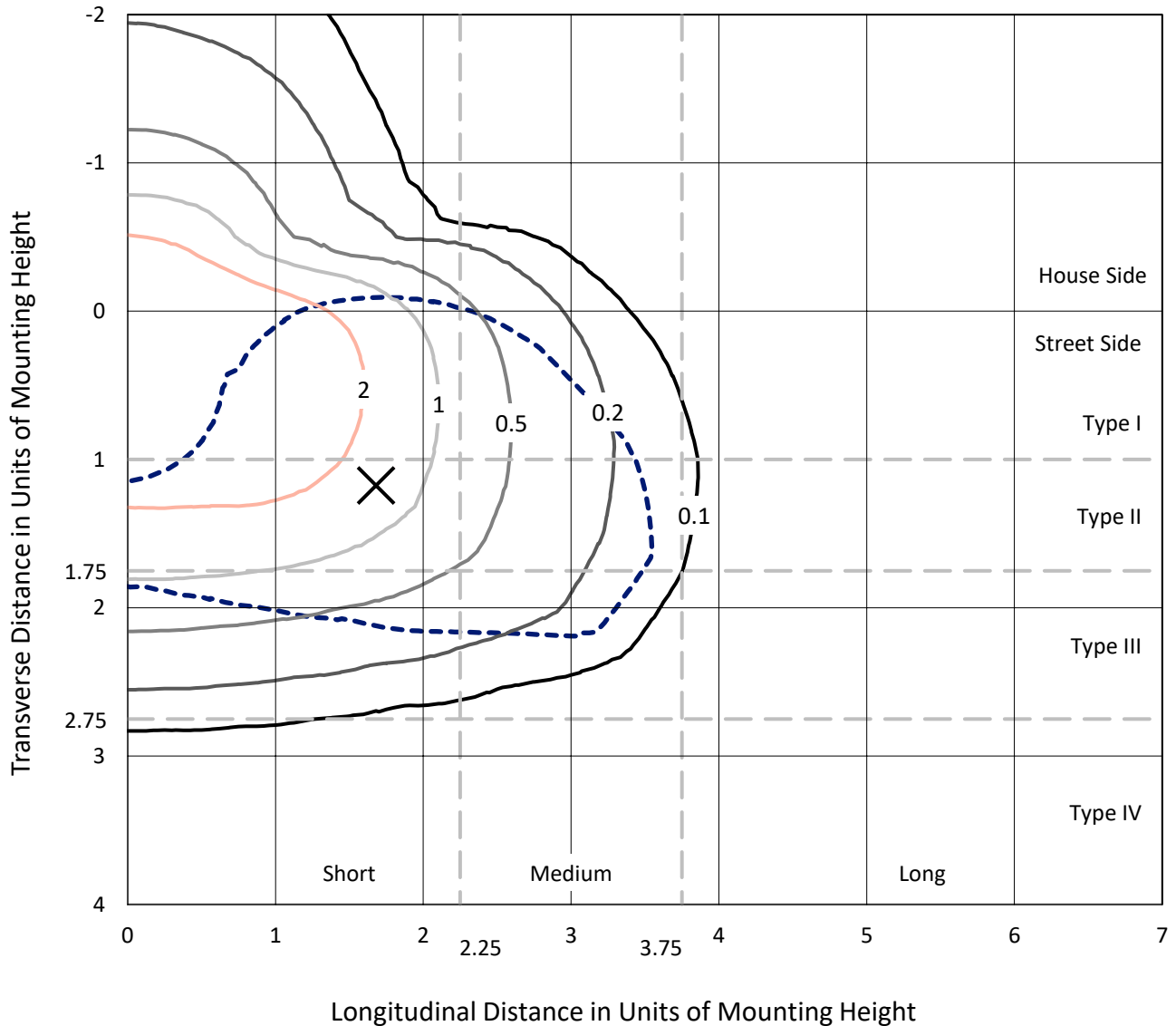
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

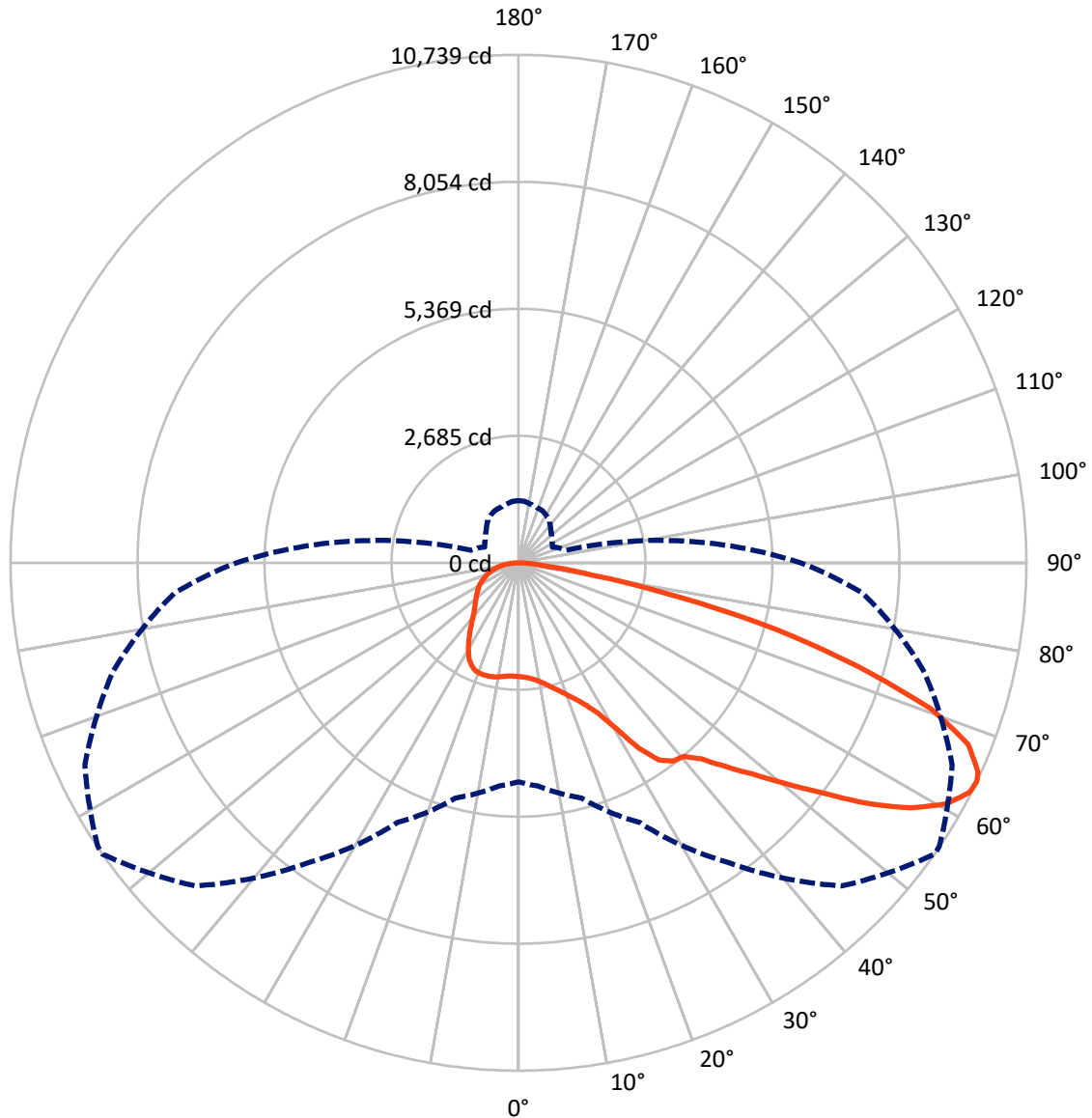
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	4355.9	0.0	4355.9
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	13575.6	0.0	13575.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	17931.5	0.0	17931.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.0	1.3
10°-20°	738.4	4.1
20°-30°	1314.6	7.3
30°-40°	2022.6	11.3
40°-50°	2867.3	16.0
50°-60°	4150.3	23.1
60°-70°	4295.1	24.0
70°-80°	2011.4	11.2
80°-90°	297.8	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°	17931.5	100.0
0°-180°	17931.5	100.0

Coefficient of Utilization

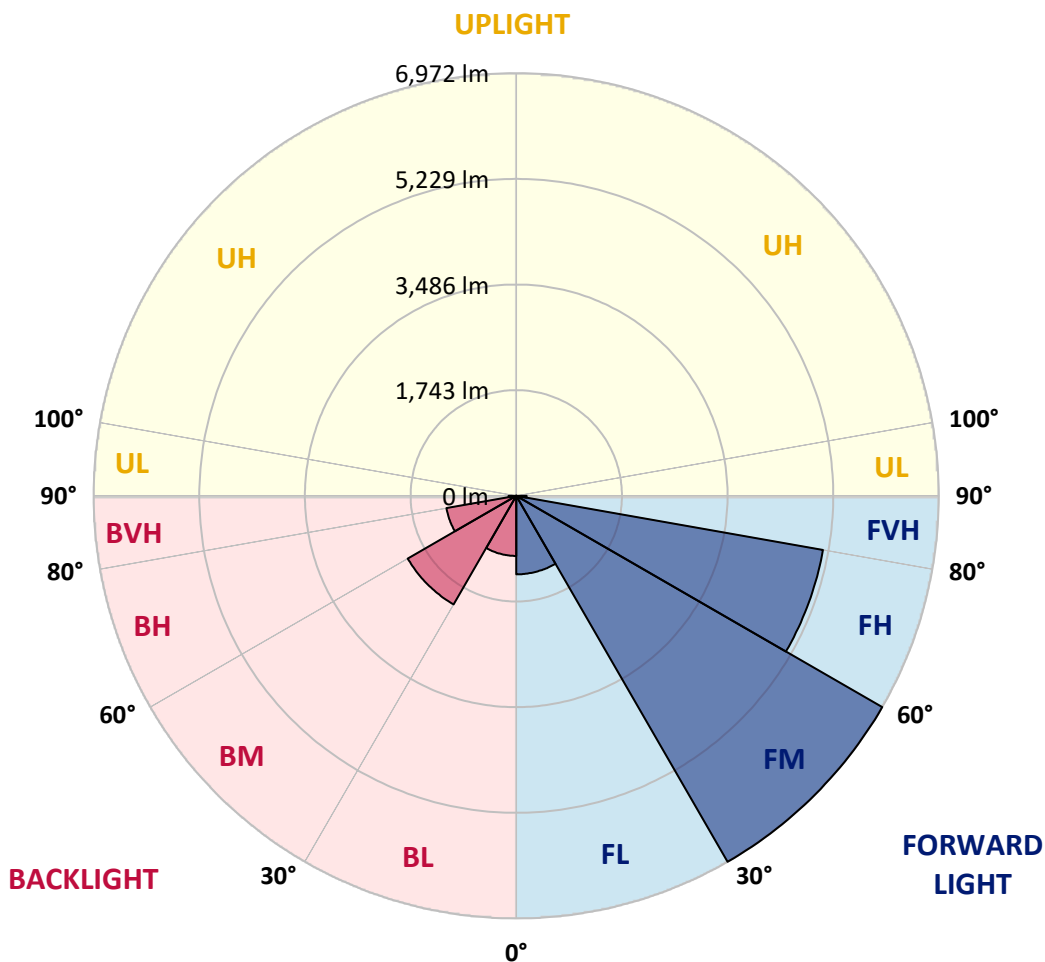


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1294.9	7.2			
FM (30°-60°)	6972.2	38.9			
FH (60°-80°)	5137.9	28.7			G3/7500
FVH (80°-90°)	170.5	1.0			G2/225
BL (0°-30°)	992.1	5.5	B2/1000		
BM (30°-60°)	2067.9	11.5	B2/2500		
BH (60°-80°)	1168.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	127.3	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°	2405.8	2405.8	2405.8	2405.8	2405.8	2405.8	2405.8	2405.8	2405.8	2405.8	2405.8
2.5°	2432.9	2431.8	2434.8	2431.8	2433.9	2426.8	2423.9	2425.9	2422.8	2417.8	2408.9
5°	2462.8	2461.8	2462.8	2458.9	2460.8	2456.8	2449.9	2451.8	2446.9	2435.8	2422.8
7.5°	2513.8	2509.8	2509.8	2508.8	2504.8	2498.8	2493.9	2491.8	2486.8	2472.9	2452.8
10°	2579.8	2579.8	2580.8	2572.8	2577.8	2566.8	2561.8	2560.8	2543.8	2525.8	2497.8
12.5°	2666.7	2671.8	2668.8	2664.7	2662.7	2658.8	2641.8	2645.8	2626.7	2595.8	2561.8
15°	2774.7	2782.7	2777.7	2775.7	2770.7	2755.7	2748.7	2745.7	2720.7	2675.7	2630.7
17.5°	2917.6	2907.6	2903.6	2898.7	2877.6	2866.6	2854.7	2852.6	2830.7	2777.7	2707.7
20°	3042.6	3056.5	3048.5	3043.6	3022.5	3001.6	2992.5	2989.6	2970.6	2912.6	2800.7
22.5°	3191.5	3194.5	3197.5	3185.5	3175.5	3159.5	3143.5	3138.5	3131.5	3071.6	2934.6
25°	3350.4	3362.4	3352.4	3340.4	3328.5	3327.4	3342.4	3340.4	3337.5	3279.4	3112.5
27.5°	3609.3	3620.3	3623.3	3610.3	3564.3	3568.3	3602.3	3613.3	3659.3	3563.4	3341.5
30°	3755.2	3766.2	3791.2	3840.2	3913.1	3977.1	4059.1	4084.0	4128.1	3947.1	3613.3
32.5°	3845.2	3849.1	3894.2	3985.2	4204.0	4442.9	4665.8	4674.8	4702.8	4448.9	3862.1
35°	3987.1	3990.1	4026.1	4126.0	4382.9	4780.8	5125.6	5136.6	5113.6	4604.8	3978.1
37.5°	4162.0	4170.0	4193.0	4276.0	4582.8	5063.6	5316.5	5308.5	5104.6	4728.8	4183.0
40°	4416.9	4416.9	4389.9	4501.9	4793.8	5225.5	5383.4	5369.5	5315.5	5087.6	4494.9
42.5°	4641.8	4637.8	4701.8	4777.7	5057.6	5475.4	5664.3	5687.3	5776.3	5538.4	4849.7
45°	4934.7	4952.6	4988.6	5126.6	5506.4	5902.2	6146.1	6168.1	6294.0	6069.1	5264.5
47.5°	5230.5	5236.5	5349.5	5533.4	6062.1	6481.0	6680.9	6716.8	6831.8	6689.9	5711.3
50°	5440.4	5497.4	5678.3	5968.2	6634.8	7186.6	7342.5	7385.5	7588.4	7365.5	6232.1
52.5°	5662.3	5718.3	5939.2	6381.0	7292.5	7908.3	8100.2	8129.2	8340.0	8049.2	6764.8
55°	5852.2	5904.2	6155.1	6746.8	7816.3	8644.9	8992.8	8958.8	9059.7	8576.0	7175.6
57.5°	5883.2	5925.2	6241.1	6980.7	8210.1	9276.6	9775.4	9795.4	9678.4	8969.7	7514.5
60°	5643.3	5729.3	6092.1	6955.7	8387.0	9716.4	10359.1	10373.1	10041.3	9171.7	7649.4
62.5°	5218.5	5209.5	5648.3	6553.9	8139.1	9816.4	10703.0	10688.0	10183.2	9074.7	7518.4
64°	4631.8	4739.7	5149.6	6060.1	7739.3	9662.5	10738.9	10730.9	10115.2	8872.8	7295.5
65°	4274.0	4268.0	4672.8	5656.3	7341.6	9430.5	10675.0	10664.0	9973.3	8691.9	7122.6
67.5°	3085.6	3099.5	3499.4	4364.9	5968.2	8524.0	10258.2	10217.2	9413.5	8092.1	6464.9
70°	1869.1	1877.1	2191.0	2895.6	4283.9	6890.7	9246.6	9248.6	8556.9	7196.6	5502.4
72.5°	984.5	1005.5	1131.4	1644.2	2601.8	4834.7	7501.5	7679.4	7346.5	6142.1	4347.0
75°	547.7	550.8	639.7	810.6	1327.3	2705.7	5638.3	5689.3	5816.3	4943.6	3214.4
77.5°	417.8	423.8	451.8	523.7	722.6	1254.4	3412.4	3668.3	4099.1	3485.4	1834.1
80°	338.8	344.8	368.8	411.8	480.8	594.7	1585.3	1723.1	2194.0	1547.3	715.7
82.5°	263.9	259.9	290.9	318.8	349.8	351.8	650.7	719.7	893.6	665.7	309.8
85°	195.9	195.9	220.9	214.9	225.9	205.9	286.9	316.9	357.8	282.9	143.9
87.5°	78.0	86.0	144.9	129.9	100.9	81.0	105.9	112.0	123.9	111.0	60.0
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°	2405.8	2405.8	2405.8	2405.8	2405.8	2405.8	2405.8	2405.8	2405.8	2405.8	2405.8
2.5°	2409.8	2412.9	2405.8	2400.8	2398.9	2395.9	2392.8	2393.9	2397.9	2401.9	2400.8
5°	2421.8	2422.8	2410.9	2404.8	2400.8	2396.8	2396.8	2399.9	2407.9	2413.8	2413.8
7.5°	2451.8	2451.8	2434.8	2423.9	2417.8	2410.9	2408.9	2409.8	2415.9	2423.9	2424.9
10°	2498.8	2494.8	2472.9	2455.8	2444.8	2427.8	2412.9	2404.8	2407.9	2412.9	2412.9
12.5°	2555.8	2544.8	2516.8	2493.9	2466.8	2434.8	2403.9	2387.8	2386.9	2391.9	2389.9
15°	2616.8	2604.8	2565.8	2523.8	2476.9	2429.9	2392.8	2369.9	2351.9	2346.9	2357.8
17.5°	2687.7	2662.7	2608.8	2550.8	2480.9	2419.9	2361.9	2314.9	2282.9	2273.9	2276.9
20°	2773.7	2740.7	2667.8	2576.8	2477.8	2383.8	2294.0	2230.9	2178.9	2163.0	2165.0
22.5°	2892.6	2835.6	2728.7	2589.8	2452.8	2315.9	2191.0	2109.0	2046.1	2021.1	2036.0
25°	3027.5	2965.6	2786.7	2586.8	2387.8	2207.0	2069.0	1962.0	1905.1	1868.1	1876.1
27.5°	3213.5	3103.5	2848.6	2559.8	2294.9	2074.0	1914.1	1813.1	1761.2	1742.2	1751.2
30°	3451.4	3282.4	2915.7	2486.8	2148.0	1906.1	1758.1	1692.2	1661.2	1637.3	1645.2
32.5°	3623.3	3408.4	2930.6	2363.9	1989.1	1753.1	1652.2	1603.3	1569.3	1546.3	1551.3
35°	3746.3	3515.4	2923.6	2213.0	1823.1	1627.2	1568.3	1528.3	1473.3	1423.3	1414.3
37.5°	3911.2	3649.2	2872.7	2048.0	1659.3	1542.3	1500.3	1426.3	1347.4	1280.4	1277.4
40°	4164.1	3806.2	2763.7	1854.1	1519.3	1479.3	1428.3	1332.4	1247.4	1193.4	1189.5
42.5°	4424.9	3951.1	2615.8	1650.3	1404.3	1413.3	1351.4	1256.4	1204.4	1169.4	1165.4
45°	4743.7	4108.1	2455.8	1473.3	1319.4	1351.4	1284.4	1229.4	1198.5	1175.4	1169.4
47.5°	5088.6	4269.0	2275.9	1314.3	1247.4	1294.4	1256.4	1231.4	1214.4	1198.5	1191.4
50°	5460.4	4448.9	2107.0	1186.4	1182.4	1235.4	1253.4	1244.4	1234.4	1229.4	1223.4
52.5°	5868.2	4632.8	1965.1	1096.5	1125.5	1193.4	1254.4	1261.4	1261.4	1258.4	1254.4
55°	6144.1	4760.7	1821.1	1023.5	1067.5	1159.5	1252.4	1279.4	1289.4	1285.4	1281.4
57.5°	6348.0	4830.7	1640.2	960.6	1018.5	1126.5	1241.4	1281.4	1291.4	1296.4	1294.4
60°	6390.0	4765.7	1403.4	894.6	965.5	1078.5	1201.4	1251.4	1264.4	1295.4	1298.4
62.5°	6201.0	4565.8	1167.5	829.6	900.6	1005.5	1147.5	1217.4	1243.4	1291.4	1296.4
64°	5969.2	4342.0	1036.5	788.6	858.6	964.6	1120.5	1208.4	1242.4	1306.4	1310.4
65°	5799.3	4179.0	954.6	762.6	831.6	937.6	1105.4	1211.5	1251.4	1329.4	1335.4
67.5°	5173.6	3618.3	789.7	701.6	767.7	891.6	1108.5	1236.4	1249.4	1338.4	1337.4
70°	4281.0	2880.7	661.7	645.7	705.6	854.6	1096.5	1196.4	1197.4	1256.4	1242.4
72.5°	3205.5	2129.0	573.7	587.7	636.7	766.6	1035.5	1142.5	1125.5	1133.5	1119.5
75°	2202.0	1408.3	493.8	525.8	564.7	677.7	949.5	1037.5	1010.5	1000.5	990.5
77.5°	1175.4	778.6	410.8	464.8	490.8	585.8	828.6	913.6	885.6	846.6	833.6
80°	475.8	366.8	330.8	384.8	399.8	471.8	689.7	742.7	721.7	653.7	631.7
82.5°	238.9	219.9	259.9	302.9	303.9	336.8	512.8	562.7	515.8	432.8	413.8
85°	125.0	129.0	178.9	212.9	187.9	181.9	307.9	340.8	312.9	271.9	244.9
87.5°	44.9	52.0	94.0	92.9	66.0	35.0	68.0	33.0	18.0	11.0	14.0
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)