

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: P527648

Luminaire Tested: **GALN-SA2C-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9807 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

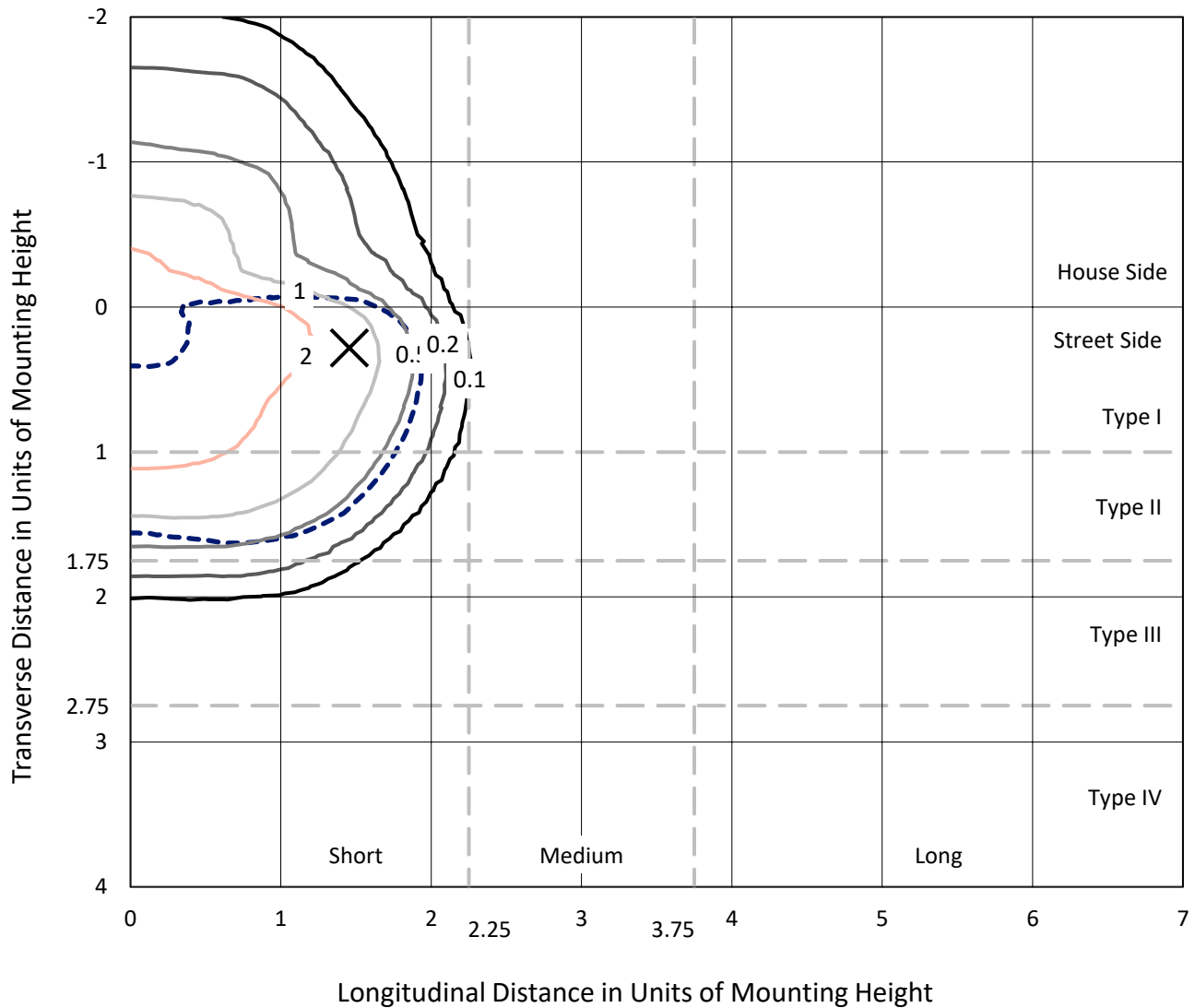
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

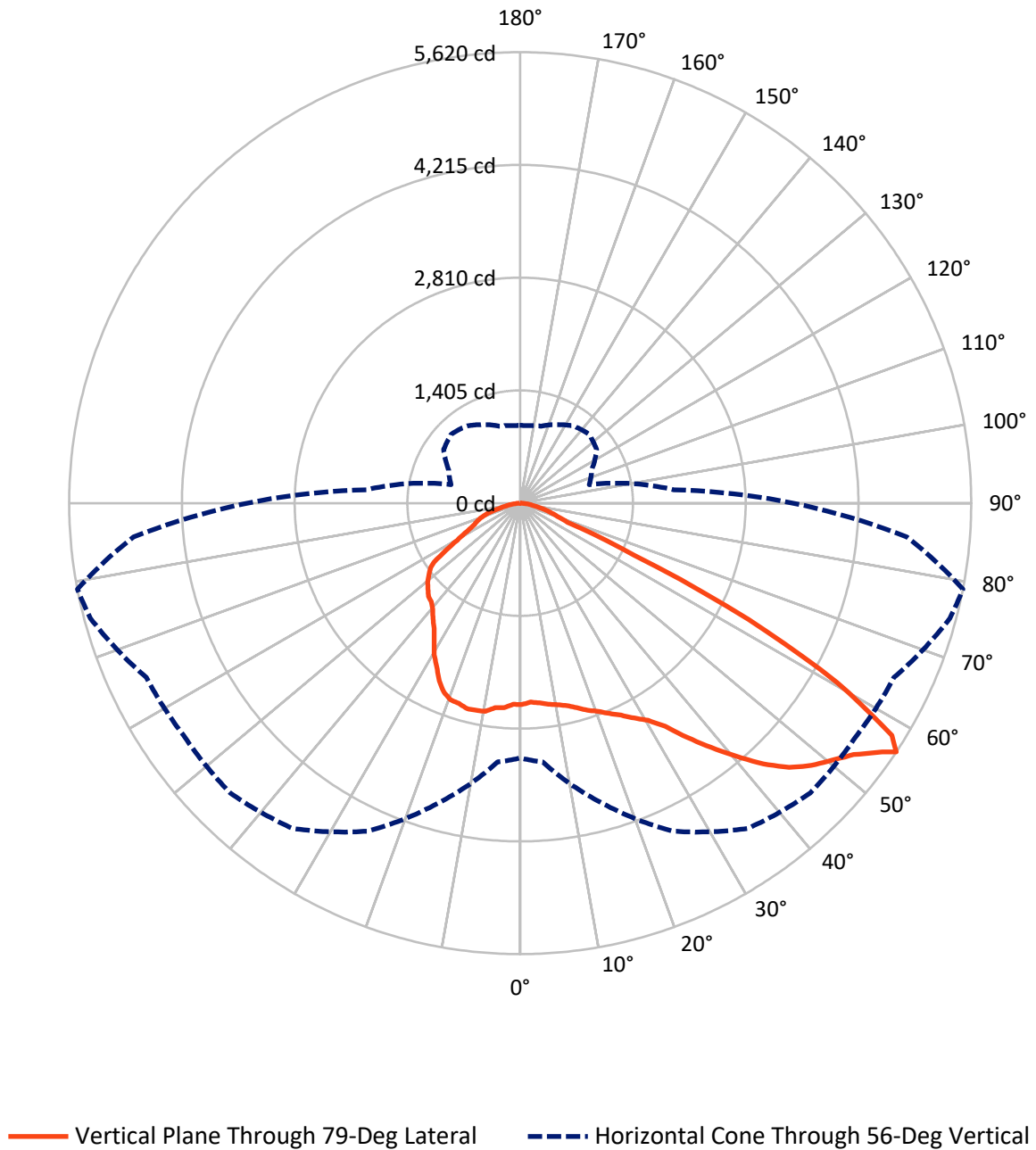
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2896.2	0.0	2896.2
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	6910.8	0.0	6910.8
	% Fixture	70.5	0.0	70.5
Total	Lumens	9807.0	0.0	9807.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.1	2.3
10°-20°	624.3	6.4
20°-30°	1068.1	10.9
30°-40°	1637.1	16.7
40°-50°	2212.5	22.6
50°-60°	2541.1	25.9
60°-70°	1158.3	11.8
70°-80°	285.6	2.9
80°-90°	51.9	0.5
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°	9807.0	100.0
0°-180°	9807.0	100.0

Coefficient of Utilization



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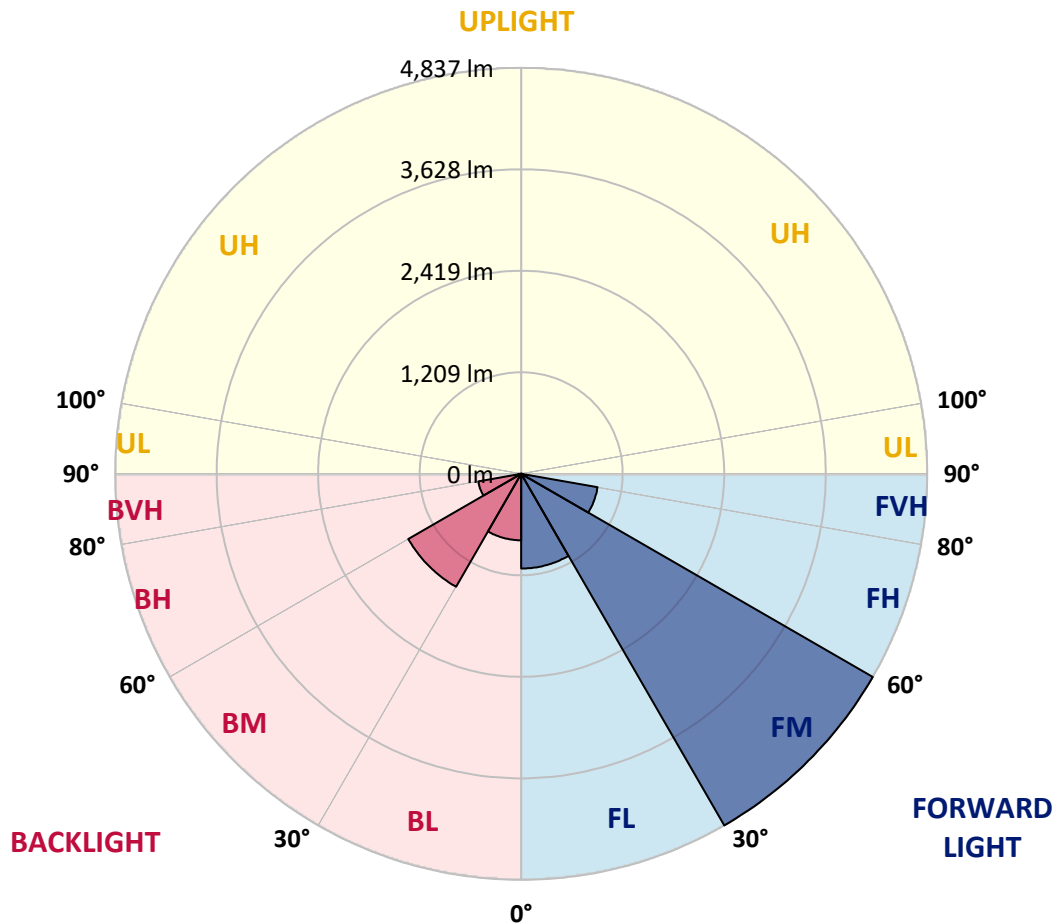
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1128.4	11.5			
FM	(30°-60°)	4837.1	49.3			
FH	(60°-80°)	924.6	9.4			G1/1800
FVH	(80°-90°)	20.7	0.2			G1/100
BL	(0°-30°)	792.2	8.1	B2/1000		
BM	(30°-60°)	1553.5	15.8	B2/2500		
BH	(60°-80°)	519.3	5.3	B2/1000		G2/1000
BVH	(80°-90°)	31.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2509.2	2509.2	2509.2	2509.2	2509.2	2509.2	2509.2	2509.2	2509.2	2509.2	2509.2
2.5°	2387.1	2381.0	2395.6	2406.6	2420.0	2437.1	2445.7	2450.6	2493.3	2482.3	2515.3
5°	2335.8	2319.9	2330.9	2339.4	2362.6	2383.4	2406.6	2443.3	2482.3	2499.4	2539.8
7.5°	2290.6	2282.0	2279.6	2285.7	2317.4	2344.3	2384.6	2438.4	2501.9	2530.0	2553.2
10°	2216.0	2203.8	2222.1	2262.5	2271.0	2327.2	2373.6	2450.6	2505.6	2554.4	2622.8
12.5°	2183.0	2170.8	2174.5	2197.7	2257.6	2311.3	2366.3	2453.0	2569.1	2588.6	2680.3
15°	2235.6	2223.4	2227.0	2220.9	2278.3	2306.4	2393.2	2501.9	2613.1	2646.0	2743.8
17.5°	2355.3	2356.5	2340.6	2327.2	2313.8	2373.6	2433.5	2531.2	2630.2	2713.2	2786.5
20°	2583.7	2543.4	2511.7	2435.9	2415.2	2440.8	2516.6	2610.6	2699.8	2768.2	2851.3
22.5°	2759.7	2763.3	2718.1	2593.5	2548.3	2559.3	2624.1	2701.0	2798.7	2847.6	2942.9
25°	3015.0	2989.3	2940.5	2841.5	2740.1	2748.7	2796.3	2865.9	2892.8	2927.0	3030.9
27.5°	3248.3	3255.6	3159.1	3066.3	2940.5	2916.0	3001.5	3013.8	2968.6	3033.3	3068.7
30°	3485.3	3479.2	3415.7	3306.9	3183.6	3188.4	3226.3	3166.5	3104.2	3139.6	3164.0
32.5°	3730.9	3661.2	3658.8	3561.0	3467.0	3421.8	3375.4	3404.7	3308.2	3315.5	3292.3
35°	3927.5	3937.3	3881.1	3811.5	3765.1	3685.7	3558.6	3611.1	3592.8	3584.3	3484.1
37.5°	4070.5	4032.6	4060.7	4037.5	3993.5	3894.5	3762.6	3812.7	3821.3	3862.8	3746.7
40°	4187.7	4171.9	4246.4	4258.6	4228.1	4014.3	3777.3	3926.3	4054.6	4145.0	4006.9
42.5°	4243.9	4278.1	4356.3	4450.4	4382.0	4153.5	3853.0	4013.0	4298.9	4441.8	4253.7
45°	4319.7	4275.7	4391.8	4564.0	4565.2	4270.8	3926.3	4130.3	4489.5	4697.2	4422.3
47.5°	4242.7	4264.7	4384.4	4603.1	4659.3	4394.2	4124.2	4296.5	4699.6	4884.1	4578.7
50°	4070.5	4114.4	4333.1	4560.3	4730.1	4524.9	4351.4	4476.0	4893.8	5034.3	4604.3
52.5°	3890.9	3915.3	4257.4	4593.3	4761.9	4693.5	4655.6	4724.0	5130.8	5204.1	4636.1
55°	3402.2	3518.3	4006.9	4578.7	4917.1	4997.7	4968.4	5068.5	5399.6	5472.9	4809.5
56°	3176.2	3237.3	3856.7	4510.2	4947.6	5108.8	5094.2	5139.4	5542.5	5619.5	4836.4
57.5°	2758.4	2763.3	3288.6	4207.3	4832.8	5141.8	5127.2	5162.6	5514.4	5461.9	4600.6
60°	1726.2	1801.9	2238.0	3236.1	4109.6	4770.5	4853.5	4568.9	4649.5	4538.3	3579.4
62.5°	894.2	883.2	1172.8	1892.3	2727.9	3415.7	3492.6	3479.2	3354.6	3192.1	2338.2
65°	445.9	448.3	613.3	937.0	1397.5	1788.5	2003.5	2026.7	1695.6	1560.0	1109.2
67.5°	323.7	335.9	441.0	572.9	658.5	736.6	902.8	885.7	670.7	637.7	591.3
70°	251.7	262.6	357.9	437.3	397.0	397.0	432.5	447.1	477.7	491.1	507.0
72.5°	183.2	191.8	273.6	301.7	260.2	279.8	323.7	357.9	389.7	394.6	412.9
75°	125.8	133.2	179.6	166.1	156.4	193.0	237.0	268.8	292.0	304.2	315.2
77.5°	81.8	84.3	102.6	86.7	100.2	124.6	153.9	180.8	204.0	213.8	216.2
80°	36.6	40.3	44.0	55.0	69.6	89.2	109.9	131.9	146.6	150.3	157.6
82.5°	20.8	20.8	26.9	39.1	51.3	64.7	79.4	95.3	112.4	116.1	114.8
85°	11.0	11.0	15.9	23.2	31.8	37.9	36.6	37.9	40.3	46.4	45.2
87.5°	3.7	3.7	4.9	4.9	6.1	7.3	6.1	8.6	11.0	11.0	11.0
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°	2509.2	2509.2	2509.2	2509.2	2509.2	2509.2	2509.2	2509.2	2509.2	2509.2	2509.2
2.5°	2505.6	2516.6	2501.9	2533.7	2533.7	2527.5	2497.0	2506.8	2514.1	2514.1	2520.2
5°	2553.2	2549.5	2559.3	2521.4	2498.2	2489.7	2439.6	2415.2	2394.4	2393.2	2374.8
7.5°	2580.1	2570.3	2566.6	2538.5	2435.9	2373.6	2266.1	2203.8	2190.4	2142.7	2161.1
10°	2622.8	2641.2	2622.8	2470.1	2327.2	2184.3	2079.2	1982.7	1944.8	1914.3	1896.0
12.5°	2710.8	2702.2	2596.0	2389.5	2189.2	2019.4	1863.0	1761.6	1723.7	1696.8	1694.4
15°	2785.3	2742.6	2580.1	2262.5	1974.2	1793.3	1665.1	1593.0	1575.9	1578.3	1589.3
17.5°	2811.0	2781.6	2497.0	2130.5	1814.1	1601.6	1541.7	1530.7	1546.6	1564.9	1569.8
20°	2851.3	2804.9	2462.8	1950.9	1616.2	1481.8	1478.2	1517.3	1546.6	1573.5	1577.1
22.5°	2935.6	2818.3	2351.6	1781.1	1480.6	1446.4	1481.8	1514.8	1560.0	1582.0	1562.5
25°	2960.0	2789.0	2195.3	1577.1	1395.1	1424.4	1462.3	1507.5	1539.3	1551.5	1560.0
27.5°	2980.8	2743.8	1983.9	1441.5	1368.2	1423.2	1462.3	1500.2	1517.3	1528.3	1538.0
30°	3039.4	2730.3	1800.7	1351.1	1351.1	1398.8	1448.9	1458.6	1481.8	1495.3	1512.4
32.5°	3068.7	2637.5	1612.5	1293.7	1334.0	1411.0	1414.6	1433.0	1434.2	1445.2	1426.9
35°	3145.7	2571.5	1437.9	1252.2	1341.3	1398.8	1417.1	1406.1	1346.2	1316.9	1323.0
37.5°	3201.9	2538.5	1312.0	1247.3	1342.6	1412.2	1422.0	1338.9	1276.6	1227.7	1240.0
40°	3353.4	2456.7	1216.7	1238.7	1353.6	1426.9	1400.0	1309.6	1197.2	1147.1	1138.6
42.5°	3469.4	2398.1	1156.9	1229.0	1362.1	1447.6	1389.0	1250.9	1136.1	1089.7	1101.9
45°	3603.8	2384.6	1125.1	1231.4	1376.8	1458.6	1375.6	1205.7	1083.6	1065.3	1061.6
47.5°	3651.4	2288.1	1090.9	1210.6	1373.1	1455.0	1330.4	1171.5	1064.0	1066.5	1076.3
50°	3572.0	2189.2	1065.3	1167.9	1348.7	1422.0	1259.5	1126.3	1053.0	1083.6	1100.7
52.5°	3470.6	2087.8	1012.7	1110.5	1298.6	1370.7	1226.5	1123.9	1042.0	1032.3	1035.9
55°	3501.2	2004.7	939.4	1032.3	1218.0	1275.4	1189.9	1100.7	1015.2	978.5	990.7
56°	3402.2	1919.2	891.8	983.4	1163.0	1214.3	1171.5	1079.9	993.2	968.8	968.8
57.5°	3122.5	1632.1	829.5	905.2	1046.9	1108.0	1136.1	1067.7	968.8	926.0	927.2
60°	2302.8	1160.5	744.0	797.7	867.4	916.2	1046.9	1033.5	907.7	878.4	867.4
62.5°	1419.5	847.8	682.9	703.7	739.1	779.4	913.8	935.8	842.9	811.2	803.8
65°	795.3	648.7	636.5	645.0	662.1	682.9	758.6	807.5	744.0	695.1	692.7
67.5°	581.5	580.3	590.0	597.4	604.7	604.7	623.0	642.6	634.0	594.9	591.3
70°	516.7	520.4	527.7	529.0	531.4	522.9	508.2	502.1	511.9	487.4	482.5
72.5°	426.3	438.6	447.1	448.3	434.9	423.9	404.4	383.6	376.3	371.4	370.2
75°	327.4	335.9	339.6	338.4	333.5	317.6	294.4	273.6	260.2	245.5	252.9
77.5°	221.1	233.3	239.4	239.4	232.1	207.7	196.7	180.8	167.4	151.5	153.9
80°	155.1	163.7	173.5	172.2	160.0	147.8	131.9	117.3	106.3	94.1	92.8
82.5°	116.1	120.9	125.8	123.4	114.8	102.6	91.6	78.2	66.0	57.4	57.4
85°	41.5	45.2	55.0	57.4	62.3	62.3	52.5	44.0	35.4	29.3	29.3
87.5°	12.2	12.2	13.4	13.4	12.2	13.4	11.0	12.2	13.4	8.6	8.6
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)