

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: P528348

Luminaire Tested: **GALN-SA3B-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11509 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 121
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

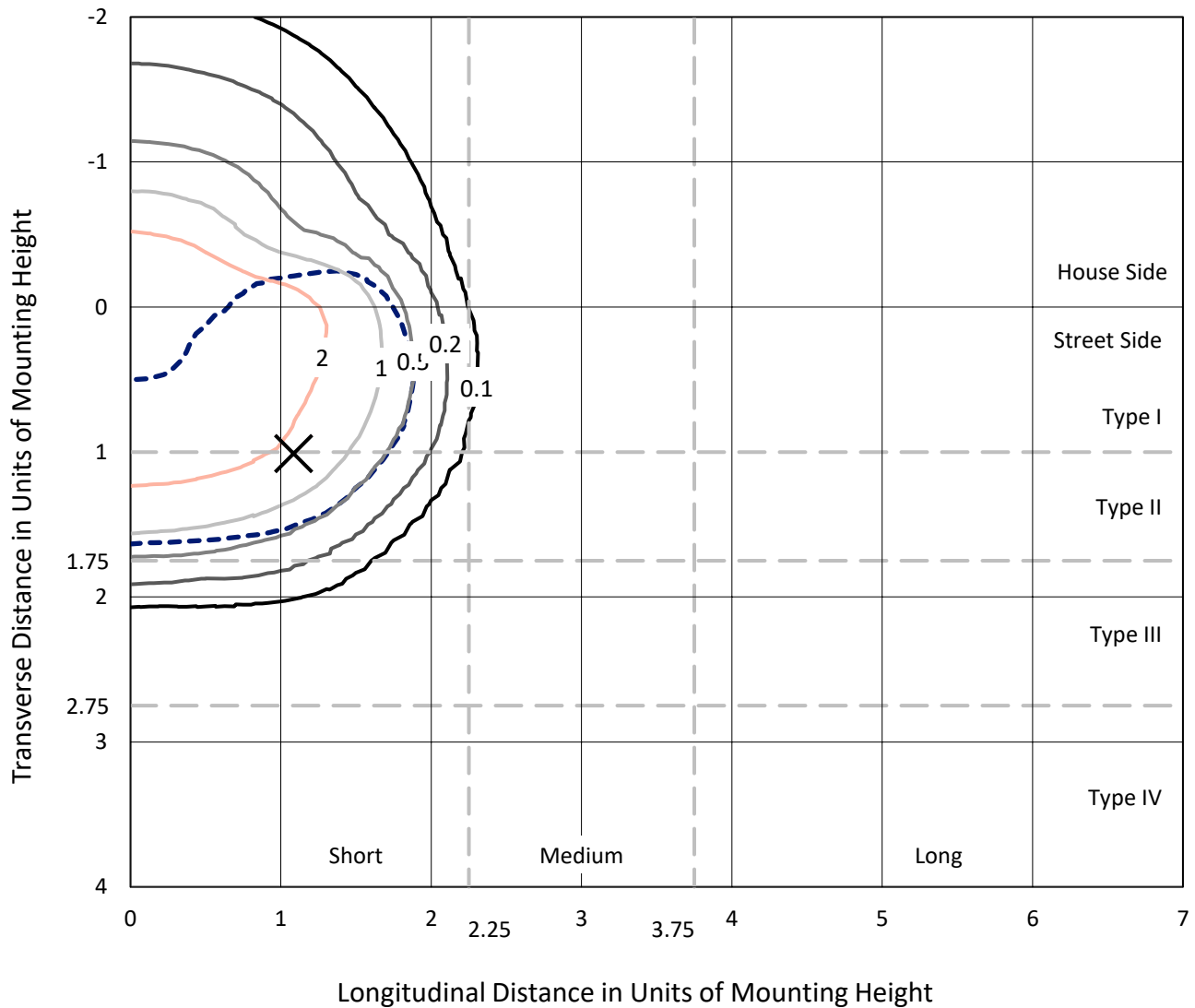


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Iso-Footcandle Lines of Horizontal Illumination

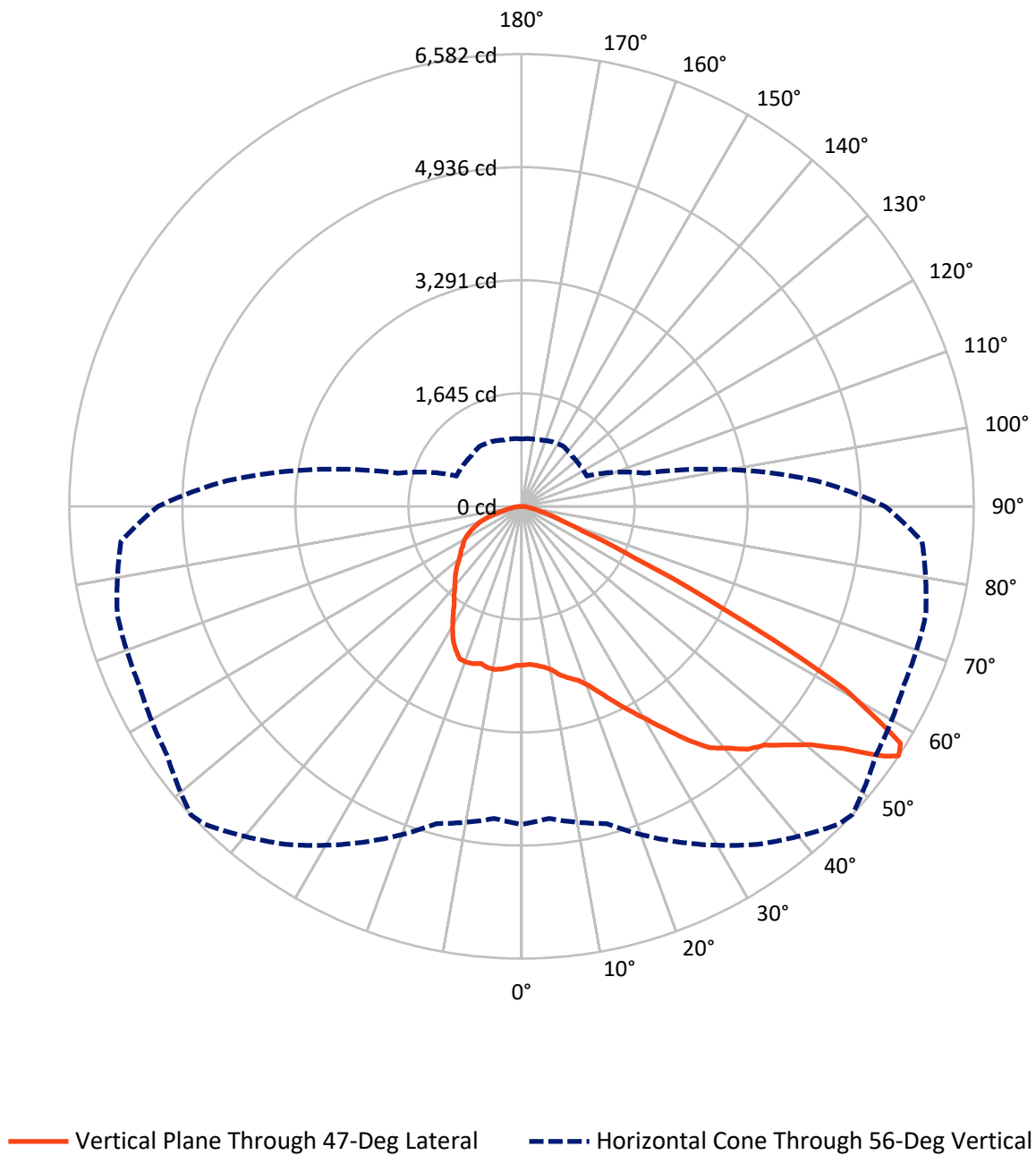
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	3647.1	0.0	3647.1
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	7861.9	0.0	7861.9
	% Fixture	68.3	0.0	68.3
Total	Lumens	11509.0	0.0	11509.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.3	2.0
10°-20°	710.6	6.2
20°-30°	1256.1	10.9
30°-40°	1886.6	16.4
40°-50°	2589.2	22.5
50°-60°	3084.7	26.8
60°-70°	1320.1	11.5
70°-80°	373.6	3.2
80°-90°	62.9	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°	11509.0	100.0
0°-180°	11509.0	100.0

Coefficient of Utilization



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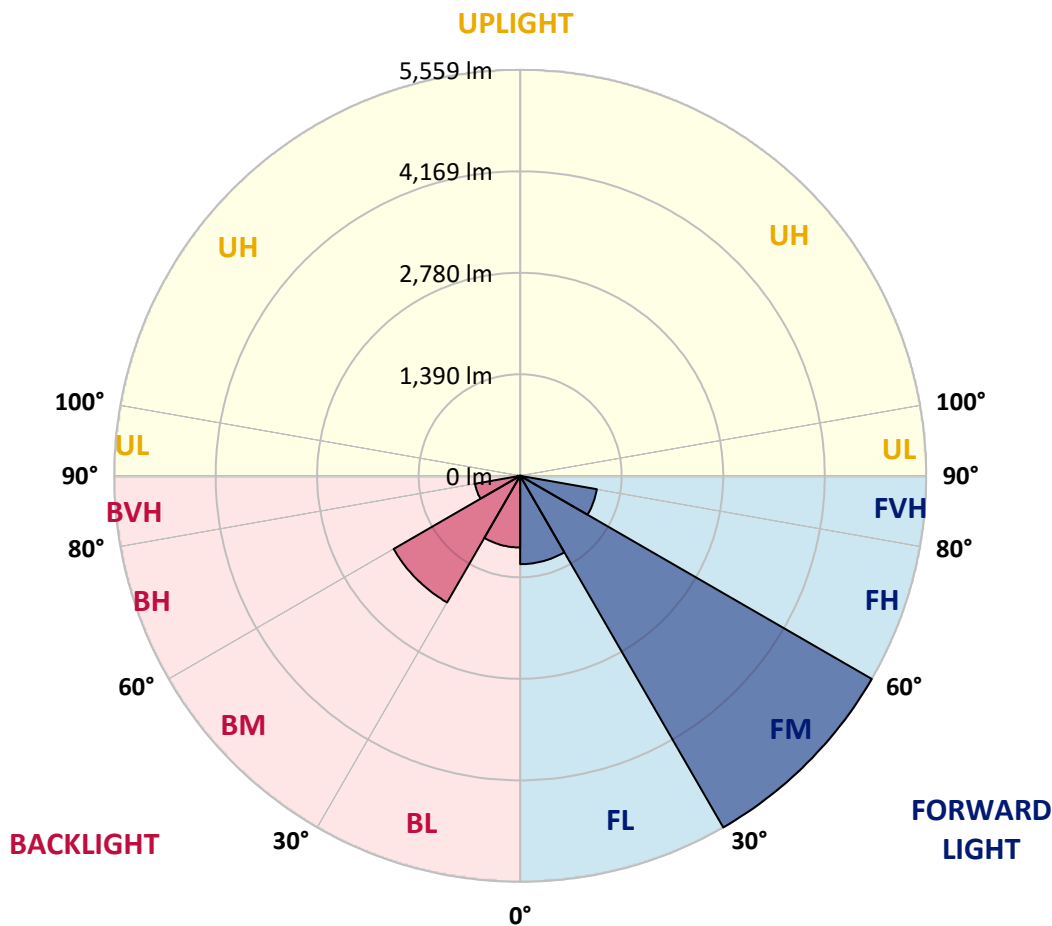
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1210.0	10.5			
FM	(30°-60°)	5559.1	48.3			
FH	(60°-80°)	1066.2	9.3			G1/1800
FVH	(80°-90°)	26.7	0.2			G1/100
BL	(0°-30°)	981.9	8.5	B2/1000		
BM	(30°-60°)	2001.5	17.4	B2/2500		
BH	(60°-80°)	627.5	5.5	B2/1000		G2/1000
BVH	(80°-90°)	36.2	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°	47°	55°	65°	75°	85°
0°	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8
2.5°	2303.0	2298.6	2295.7	2319.1	2310.3	2311.8	2303.0	2311.8	2317.7	2304.5	2323.6
5°	2298.6	2311.8	2300.1	2307.4	2326.5	2320.6	2326.5	2344.1	2339.7	2335.3	2329.4
7.5°	2339.7	2341.2	2350.0	2352.9	2358.8	2352.9	2361.7	2377.9	2373.5	2348.5	2351.4
10°	2398.4	2401.3	2402.8	2419.0	2429.2	2430.7	2420.4	2405.7	2404.3	2438.0	2414.6
12.5°	2465.9	2458.6	2476.2	2482.1	2493.8	2507.0	2520.2	2489.4	2508.5	2510.0	2482.1
15°	2564.3	2571.6	2551.1	2551.1	2555.5	2556.9	2593.6	2579.0	2576.0	2559.9	2571.6
17.5°	2711.1	2661.1	2659.7	2639.1	2636.2	2647.9	2661.1	2672.9	2712.5	2680.2	2617.1
20°	2818.2	2829.9	2787.4	2762.4	2766.8	2793.3	2780.0	2832.9	2860.8	2807.9	2746.3
22.5°	3007.6	2967.9	2978.2	2922.4	2926.8	2954.7	2953.2	3007.6	3023.7	2940.0	2850.5
25°	3135.3	3125.0	3133.8	3089.8	3095.6	3117.6	3152.9	3242.4	3216.0	3123.5	2916.5
27.5°	3321.7	3301.1	3293.8	3277.6	3271.8	3330.5	3371.6	3467.0	3447.9	3312.9	3034.0
30°	3512.5	3499.3	3506.6	3440.6	3464.0	3588.8	3600.5	3731.2	3722.4	3484.6	3164.6
32.5°	3644.6	3651.9	3665.1	3628.4	3732.7	3832.5	3872.1	4020.3	4027.7	3779.6	3417.1
35°	3857.4	3832.5	3839.8	3882.4	3930.8	4112.8	4177.4	4275.7	4337.4	4089.3	3659.3
37.5°	3991.0	4017.4	3986.6	4054.1	4180.3	4399.0	4457.8	4559.0	4623.6	4394.6	3989.5
40°	4199.4	4156.9	4178.9	4227.3	4356.5	4641.2	4625.1	4729.3	4749.8	4654.4	4297.8
42.5°	4424.0	4403.4	4372.6	4482.7	4591.3	4798.3	4830.6	4782.1	4886.4	4908.4	4738.1
45°	4692.6	4717.6	4722.0	4724.9	4820.3	5000.8	4956.8	4914.2	5034.6	5194.6	5011.1
47.5°	4942.1	4862.9	4920.1	4999.4	5134.4	5135.9	5187.3	5086.0	5213.7	5356.1	5257.7
50°	5025.8	4987.6	5064.0	5213.7	5422.1	5444.1	5450.0	5306.2	5372.2	5485.2	5342.8
52.5°	4993.5	4980.3	5175.5	5407.4	5712.7	5824.3	5853.6	5676.0	5712.7	5661.4	5530.7
55°	4839.4	4879.0	5075.7	5548.3	6016.6	6361.5	6417.3	6192.7	5959.3	5999.0	5855.1
56°	4628.0	4559.0	4779.2	5388.3	6003.4	6536.2	6581.7	6301.3	6142.8	6091.4	5852.2
57.5°	3926.4	3836.9	4126.0	4848.2	5670.2	6470.1	6503.9	6346.8	6112.0	6007.8	5425.0
60°	2298.6	2342.6	2709.6	3343.7	4374.1	5304.7	5417.7	5532.2	5375.1	4908.4	4038.0
62.5°	1109.7	1081.8	1344.5	1917.0	2665.6	3386.2	3352.5	3673.9	3850.1	3487.5	2549.6
65°	581.3	578.3	733.9	1046.6	1464.9	1779.0	1809.8	1983.0	2225.2	1796.6	1294.6
67.5°	427.1	438.9	516.7	735.4	942.3	961.4	957.0	1043.6	1067.1	902.7	795.6
70°	334.7	340.5	397.8	559.2	701.6	628.2	615.0	625.3	694.3	723.6	688.4
72.5°	242.2	248.1	296.5	377.2	438.9	428.6	437.4	494.7	579.8	610.6	573.9
75°	161.5	165.9	192.3	230.4	259.8	280.4	296.5	362.6	441.8	459.4	441.8
77.5°	111.6	116.0	133.6	162.9	165.9	179.1	184.9	215.8	264.2	286.2	274.5
80°	63.1	63.1	71.9	83.7	102.7	120.4	123.3	148.2	170.3	184.9	187.9
82.5°	29.4	30.8	38.2	51.4	67.5	83.7	86.6	102.7	118.9	133.6	138.0
85°	14.7	16.1	22.0	30.8	41.1	49.9	48.4	49.9	52.8	49.9	51.4
87.5°	4.4	4.4	5.9	7.3	5.9	7.3	7.3	8.8	10.3	11.7	13.2
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°	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8	2311.8
2.5°	2325.0	2329.4	2300.1	2328.0	2317.7	2316.2	2336.8	2333.8	2341.2	2338.2	2320.6
5°	2326.5	2316.2	2347.0	2319.1	2332.4	2360.2	2341.2	2385.2	2363.2	2377.9	2345.6
7.5°	2372.0	2374.9	2369.1	2380.8	2374.9	2388.1	2377.9	2388.1	2370.5	2372.0	2401.3
10°	2411.6	2402.8	2413.1	2398.4	2408.7	2404.3	2380.8	2373.5	2379.3	2372.0	2391.1
12.5°	2485.0	2468.9	2461.5	2443.9	2432.2	2388.1	2351.4	2330.9	2358.8	2363.2	2354.4
15°	2559.9	2561.3	2527.6	2487.9	2414.6	2348.5	2357.3	2364.6	2364.6	2376.4	2354.4
17.5°	2606.8	2606.8	2576.0	2496.8	2421.9	2383.7	2374.9	2351.4	2330.9	2328.0	2326.5
20°	2689.0	2664.1	2593.6	2495.3	2419.0	2401.3	2335.3	2279.5	2236.9	2222.3	2220.8
22.5°	2783.0	2719.9	2621.5	2498.2	2414.6	2389.6	2266.3	2182.6	2106.3	2074.0	2078.4
25°	2869.6	2768.3	2637.7	2485.0	2398.4	2278.0	2140.1	2024.1	1944.9	1918.4	1905.2
27.5°	2929.8	2819.7	2637.7	2496.8	2338.2	2153.3	2012.4	1864.1	1795.1	1777.5	1780.5
30°	3010.5	2884.3	2683.2	2471.8	2217.9	1991.8	1823.0	1726.2	1685.1	1670.4	1680.6
32.5°	3199.8	3053.1	2746.3	2411.6	2075.5	1830.4	1693.9	1639.5	1579.4	1550.0	1539.7
35°	3405.3	3213.0	2807.9	2310.3	1915.5	1683.6	1598.5	1548.5	1476.6	1444.3	1450.2
37.5°	3696.0	3418.5	2812.3	2143.0	1742.3	1601.4	1523.6	1445.8	1387.1	1337.2	1322.5
40°	4087.9	3698.9	2802.1	1966.9	1602.9	1504.5	1447.3	1350.4	1284.3	1249.1	1256.4
42.5°	4432.8	4027.7	2759.5	1767.2	1476.6	1438.5	1373.9	1278.5	1213.9	1177.2	1174.3
45°	4723.4	4269.9	2678.8	1597.0	1370.9	1365.1	1290.2	1216.8	1165.4	1131.7	1146.4
47.5°	4992.0	4465.1	2556.9	1426.7	1274.1	1285.8	1213.9	1168.4	1136.1	1105.3	1103.8
50°	5088.9	4462.2	2449.8	1285.8	1196.3	1190.4	1187.5	1139.0	1105.3	1078.8	1090.6
52.5°	5250.4	4512.1	2333.8	1188.9	1125.8	1127.3	1137.6	1102.3	1064.2	1048.0	1062.7
55°	5482.3	4519.4	2078.4	1075.9	1067.1	1077.4	1077.4	1053.9	1021.6	1008.4	1001.0
56°	5292.9	4300.7	1864.1	1046.6	1037.7	1037.7	1065.6	1039.2	999.6	989.3	980.5
57.5°	4882.0	3767.9	1560.3	1011.3	998.1	1018.7	1033.3	1005.5	968.8	954.1	962.9
60°	3367.2	2549.6	1172.8	935.0	935.0	968.8	980.5	939.4	923.3	921.8	910.0
62.5°	1965.4	1485.4	917.4	866.0	868.9	896.8	905.6	882.2	861.6	886.6	898.3
65°	1042.1	886.6	786.7	792.6	794.1	816.1	854.3	852.8	851.3	858.7	860.1
67.5°	754.5	736.8	714.8	709.0	711.9	728.0	766.2	795.6	794.1	776.5	763.3
70°	672.3	647.3	634.1	635.6	623.8	642.9	673.7	692.8	659.0	638.5	629.7
72.5°	559.2	551.9	543.1	544.6	521.1	516.7	481.4	481.4	472.6	466.8	477.0
75°	427.1	424.2	428.6	421.3	396.3	369.9	349.3	330.3	300.9	289.2	283.3
77.5°	270.1	278.9	289.2	273.0	262.7	243.7	223.1	204.0	180.5	167.3	167.3
80°	183.5	190.8	198.2	195.2	183.5	165.9	149.7	129.2	113.0	102.7	101.3
82.5°	139.4	145.3	155.6	143.8	132.1	117.4	104.2	89.5	74.9	63.1	63.1
85°	49.9	57.2	63.1	69.0	73.4	74.9	64.6	52.8	42.6	33.8	32.3
87.5°	13.2	14.7	16.1	14.7	14.7	14.7	16.1	14.7	13.2	10.3	10.3
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)