

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: P527882

Luminaire Tested: **GALN-SA2D-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527882
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-SA2D-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA 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: 10792 lumens
Efficiency: N/A
Efficacy: 86.3 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): 125
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



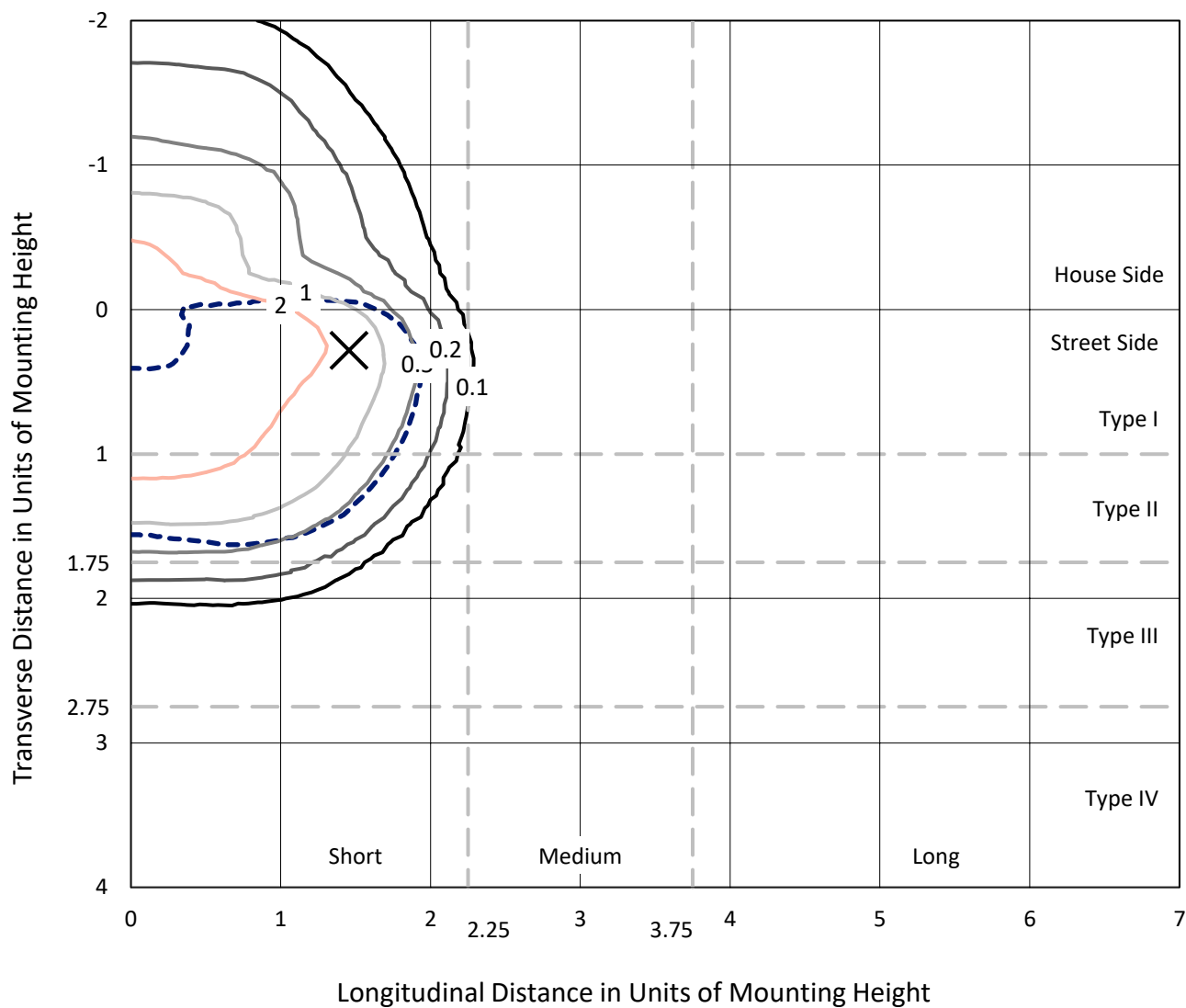
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

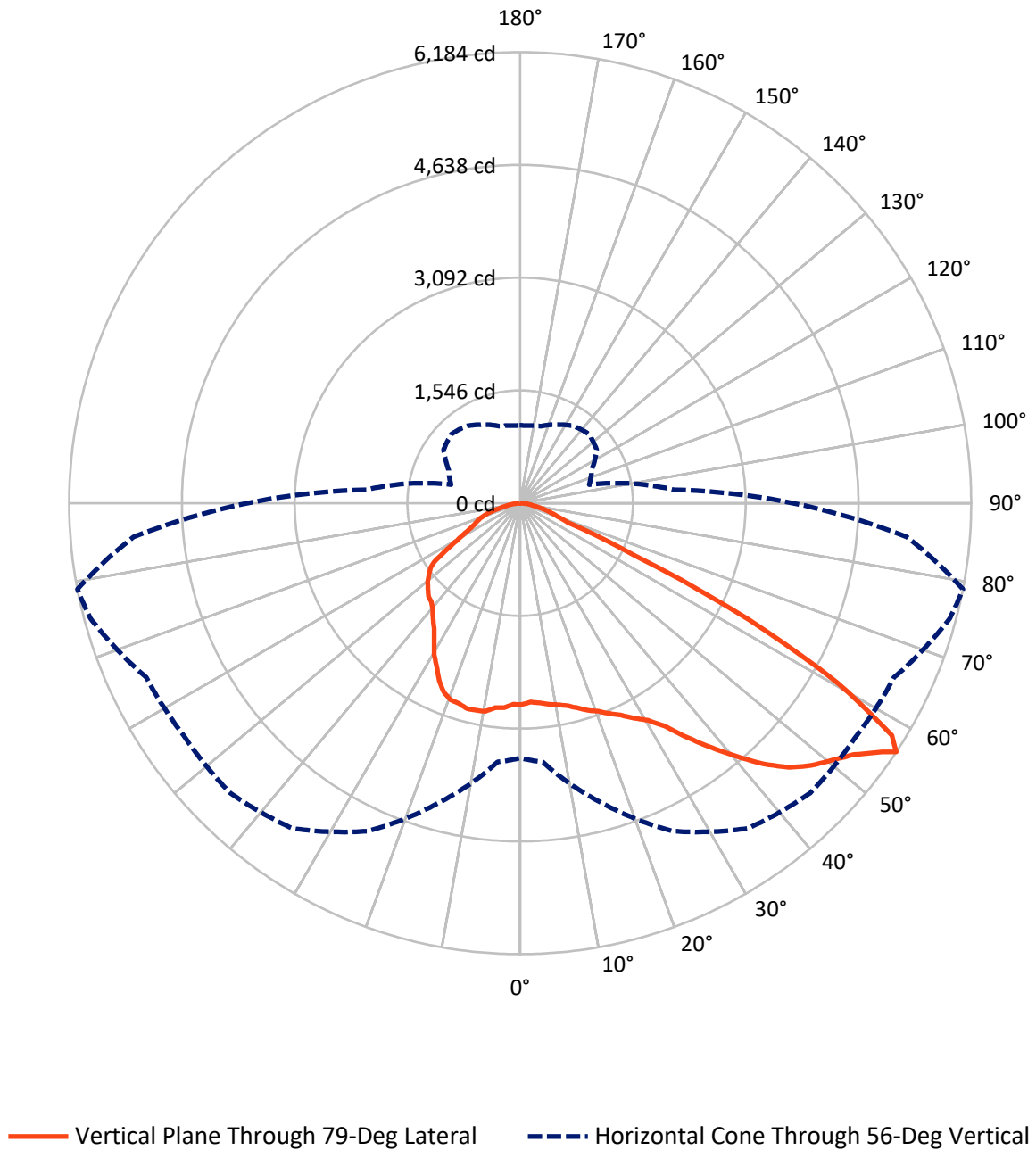
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3187.1	0.0	3187.1
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	7604.9	0.0	7604.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	10792.0	0.0	10792.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.0	2.3
10°-20°	687.1	6.4
20°-30°	1175.4	10.9
30°-40°	1801.5	16.7
40°-50°	2434.7	22.6
50°-60°	2796.3	25.9
60°-70°	1274.6	11.8
70°-80°	314.3	2.9
80°-90°	57.1	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°	10792.0	100.0
0°-180°	10792.0	100.0

Coefficient of Utilization



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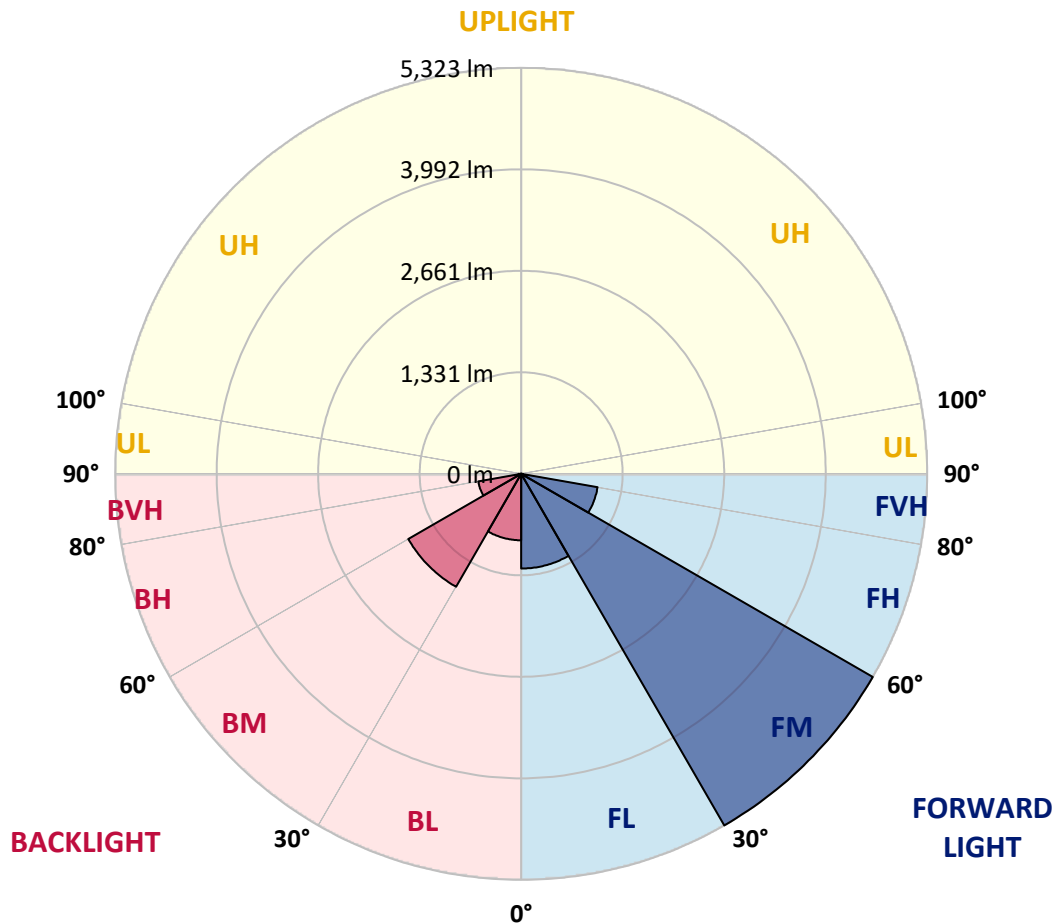
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1241.7	11.5			
FM	(30°-60°)	5322.9	49.3			
FH	(60°-80°)	1017.4	9.4			G1/1800
FVH	(80°-90°)	22.8	0.2			G1/100
BL	(0°-30°)	871.8	8.1	B2/1000		
BM	(30°-60°)	1709.5	15.8	B2/2500		
BH	(60°-80°)	571.5	5.3	B2/1000		G2/1000
BVH	(80°-90°)	34.3	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°	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2
2.5°	2626.8	2620.1	2636.2	2648.3	2663.1	2681.9	2691.3	2696.7	2743.8	2731.7	2768.0
5°	2570.4	2552.9	2565.0	2574.4	2599.9	2622.8	2648.3	2688.7	2731.7	2750.5	2794.9
7.5°	2520.6	2511.2	2508.5	2515.2	2550.2	2579.8	2624.1	2683.3	2753.2	2784.1	2809.6
10°	2438.6	2425.2	2445.3	2489.7	2499.1	2560.9	2612.0	2696.7	2757.2	2811.0	2886.3
12.5°	2402.3	2388.9	2392.9	2418.4	2484.3	2543.5	2604.0	2699.4	2827.1	2848.6	2949.5
15°	2460.1	2446.7	2450.7	2444.0	2507.2	2538.1	2633.5	2753.2	2875.5	2911.8	3019.4
17.5°	2591.9	2593.2	2575.7	2560.9	2546.2	2612.0	2677.9	2785.4	2894.3	2985.7	3066.4
20°	2843.2	2798.9	2763.9	2680.6	2657.7	2686.0	2769.3	2872.8	2971.0	3046.2	3137.7
22.5°	3036.8	3040.9	2991.1	2854.0	2804.3	2816.4	2887.6	2972.3	3079.9	3133.6	3238.5
25°	3317.8	3289.6	3235.8	3126.9	3015.3	3024.7	3077.2	3153.8	3183.4	3221.0	3335.3
27.5°	3574.6	3582.6	3476.4	3374.3	3235.8	3208.9	3303.0	3316.5	3266.7	3338.0	3376.9
30°	3835.4	3828.6	3758.7	3639.1	3503.3	3508.7	3550.4	3484.5	3415.9	3454.9	3481.8
32.5°	4105.6	4028.9	4026.3	3918.7	3815.2	3765.5	3714.4	3746.6	3640.4	3648.5	3623.0
35°	4322.0	4332.8	4270.9	4194.3	4143.2	4055.8	3916.0	3973.8	3953.7	3944.3	3834.0
37.5°	4479.3	4437.6	4468.5	4443.0	4394.6	4285.7	4140.5	4195.6	4205.1	4250.8	4123.0
40°	4608.3	4590.9	4672.9	4686.3	4652.7	4417.5	4156.7	4320.7	4461.8	4561.3	4409.4
42.5°	4670.2	4707.8	4793.9	4897.4	4822.1	4570.7	4240.0	4416.1	4730.7	4888.0	4680.9
45°	4753.5	4705.1	4832.9	5022.4	5023.7	4699.8	4320.7	4545.2	4940.4	5168.9	4866.5
47.5°	4668.8	4693.0	4824.8	5065.4	5127.3	4835.5	4538.4	4728.0	5171.6	5374.6	5038.5
50°	4479.3	4527.7	4768.3	5018.4	5205.2	4979.4	4788.5	4925.6	5385.4	5540.0	5066.8
52.5°	4281.7	4308.6	4685.0	5054.7	5240.2	5164.9	5123.2	5198.5	5646.2	5726.8	5101.7
55°	3743.9	3871.7	4409.4	5038.5	5410.9	5499.6	5467.4	5577.6	5941.9	6022.6	5292.6
56°	3495.2	3562.5	4244.0	4963.3	5444.5	5622.0	5605.8	5655.6	6099.2	6183.9	5322.2
57.5°	3035.5	3040.9	3618.9	4629.9	5318.2	5658.3	5642.1	5681.1	6068.3	6010.5	5062.7
60°	1899.5	1982.9	2462.8	3561.1	4522.3	5249.6	5341.0	5027.8	5116.5	4994.2	3938.9
62.5°	984.0	971.9	1290.6	2082.4	3001.9	3758.7	3843.4	3828.6	3691.5	3512.7	2573.0
65°	490.7	493.4	674.9	1031.1	1537.9	1968.1	2204.7	2230.2	1865.9	1716.7	1220.6
67.5°	356.2	369.7	485.3	630.5	724.6	810.6	993.5	974.6	738.0	701.7	650.7
70°	276.9	289.0	393.9	481.3	436.9	436.9	475.9	492.0	525.6	540.4	557.9
72.5°	201.6	211.1	301.1	332.0	286.3	307.9	356.2	393.9	428.8	434.2	454.4
75°	138.5	146.5	197.6	182.8	172.1	212.4	260.8	295.8	321.3	334.7	346.8
77.5°	90.1	92.8	112.9	95.4	110.2	137.1	169.4	199.0	224.5	235.3	237.9
80°	40.3	44.4	48.4	60.5	76.6	98.1	121.0	145.2	161.3	165.4	173.4
82.5°	22.9	22.9	29.6	43.0	56.5	71.2	87.4	104.9	123.7	127.7	126.4
85°	12.1	12.1	17.5	25.5	35.0	41.7	40.3	41.7	44.4	51.1	49.7
87.5°	4.0	4.0	5.4	5.4	6.7	8.1	6.7	9.4	12.1	12.1	12.1
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°	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2
2.5°	2757.2	2769.3	2753.2	2788.1	2788.1	2781.4	2747.8	2758.6	2766.6	2766.6	2773.3
5°	2809.6	2805.6	2816.4	2774.7	2749.1	2739.7	2684.6	2657.7	2634.9	2633.5	2613.4
7.5°	2839.2	2828.5	2824.4	2793.5	2680.6	2612.0	2493.7	2425.2	2410.4	2357.9	2378.1
10°	2886.3	2906.4	2886.3	2718.2	2560.9	2403.7	2288.0	2181.8	2140.2	2106.6	2086.4
12.5°	2983.1	2973.6	2856.7	2629.5	2409.0	2222.2	2050.1	1938.5	1896.8	1867.3	1864.6
15°	3065.1	3018.0	2839.2	2489.7	2172.4	1973.5	1832.3	1753.0	1734.2	1736.9	1749.0
17.5°	3093.3	3061.0	2747.8	2344.5	1996.3	1762.4	1696.5	1684.4	1701.9	1722.1	1727.5
20°	3137.7	3086.6	2710.2	2146.9	1778.5	1630.7	1626.6	1669.7	1701.9	1731.5	1735.5
22.5°	3230.4	3101.4	2587.8	1960.0	1629.3	1591.7	1630.7	1667.0	1716.7	1740.9	1719.4
25°	3257.3	3069.1	2415.8	1735.5	1535.2	1567.5	1609.2	1658.9	1693.9	1707.3	1716.7
27.5°	3280.2	3019.4	2183.2	1586.3	1505.6	1566.1	1609.2	1650.8	1669.7	1681.8	1692.5
30°	3344.7	3004.6	1981.5	1486.8	1486.8	1539.3	1594.4	1605.1	1630.7	1645.5	1664.3
32.5°	3376.9	2902.4	1774.5	1423.6	1468.0	1552.7	1556.7	1576.9	1578.2	1590.3	1570.2
35°	3461.6	2829.8	1582.3	1377.9	1476.1	1539.3	1559.4	1547.3	1481.4	1449.2	1455.9
37.5°	3523.5	2793.5	1443.8	1372.6	1477.4	1554.0	1564.8	1473.4	1404.8	1351.0	1364.5
40°	3690.2	2703.4	1338.9	1363.1	1489.5	1570.2	1540.6	1441.1	1317.4	1262.3	1252.9
42.5°	3817.9	2638.9	1273.1	1352.4	1498.9	1593.0	1528.5	1376.6	1250.2	1199.1	1212.6
45°	3965.8	2624.1	1238.1	1355.1	1515.1	1605.1	1513.7	1326.8	1192.4	1172.3	1168.2
47.5°	4018.2	2517.9	1200.5	1332.2	1511.0	1601.1	1464.0	1289.2	1170.9	1173.6	1184.4
50°	3930.8	2409.0	1172.3	1285.2	1484.1	1564.8	1386.0	1239.5	1158.8	1192.4	1211.2
52.5°	3819.2	2297.5	1114.4	1222.0	1429.0	1508.3	1349.7	1236.8	1146.7	1136.0	1140.0
55°	3852.8	2206.0	1033.8	1136.0	1340.3	1403.5	1309.4	1211.2	1117.1	1076.8	1090.2
56°	3743.9	2111.9	981.4	1082.2	1279.8	1336.3	1289.2	1188.4	1092.9	1066.1	1066.1
57.5°	3436.1	1796.0	912.8	996.1	1152.1	1219.3	1250.2	1174.9	1066.1	1019.0	1020.3
60°	2534.1	1277.1	818.7	877.8	954.5	1008.2	1152.1	1137.3	998.8	966.6	954.5
62.5°	1562.1	933.0	751.5	774.3	813.3	857.7	1005.6	1029.8	927.6	892.6	884.6
65°	875.2	713.8	700.4	709.8	728.6	751.5	834.8	888.6	818.7	764.9	762.2
67.5°	639.9	638.6	649.3	657.4	665.4	665.4	685.6	707.1	697.7	654.7	650.7
70°	568.6	572.7	580.7	582.1	584.8	575.4	559.2	552.5	563.3	536.4	531.0
72.5°	469.2	482.6	492.0	493.4	478.6	466.5	445.0	422.1	414.1	408.7	407.3
75°	360.3	369.7	373.7	372.4	367.0	349.5	324.0	301.1	286.3	270.2	278.3
77.5°	243.3	256.8	263.5	263.5	255.4	228.5	216.4	199.0	184.2	166.7	169.4
80°	170.7	180.1	190.9	189.5	176.1	162.7	145.2	129.1	117.0	103.5	102.2
82.5°	127.7	133.1	138.5	135.8	126.4	112.9	100.8	86.0	72.6	63.2	63.2
85°	45.7	49.7	60.5	63.2	68.6	68.6	57.8	48.4	39.0	32.3	32.3
87.5°	13.4	13.4	14.8	14.8	13.4	14.8	12.1	13.4	14.8	9.4	9.4
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)