

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: P528812

Luminaire Tested: **GALN-SA3D-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15393 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

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

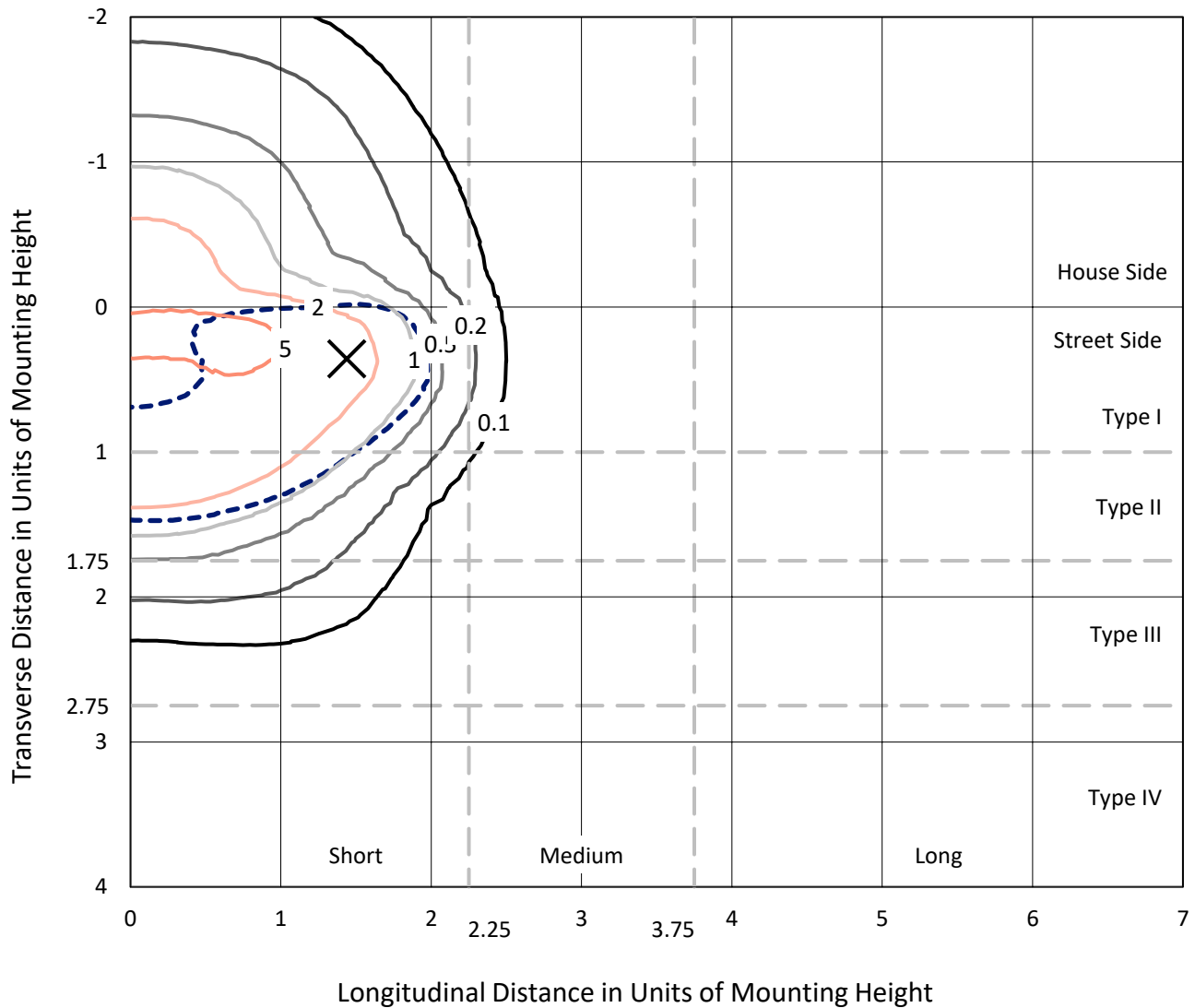


REPORT NUMBER: P528812

CATALOG NUMBER: GALN-SA3D-830-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

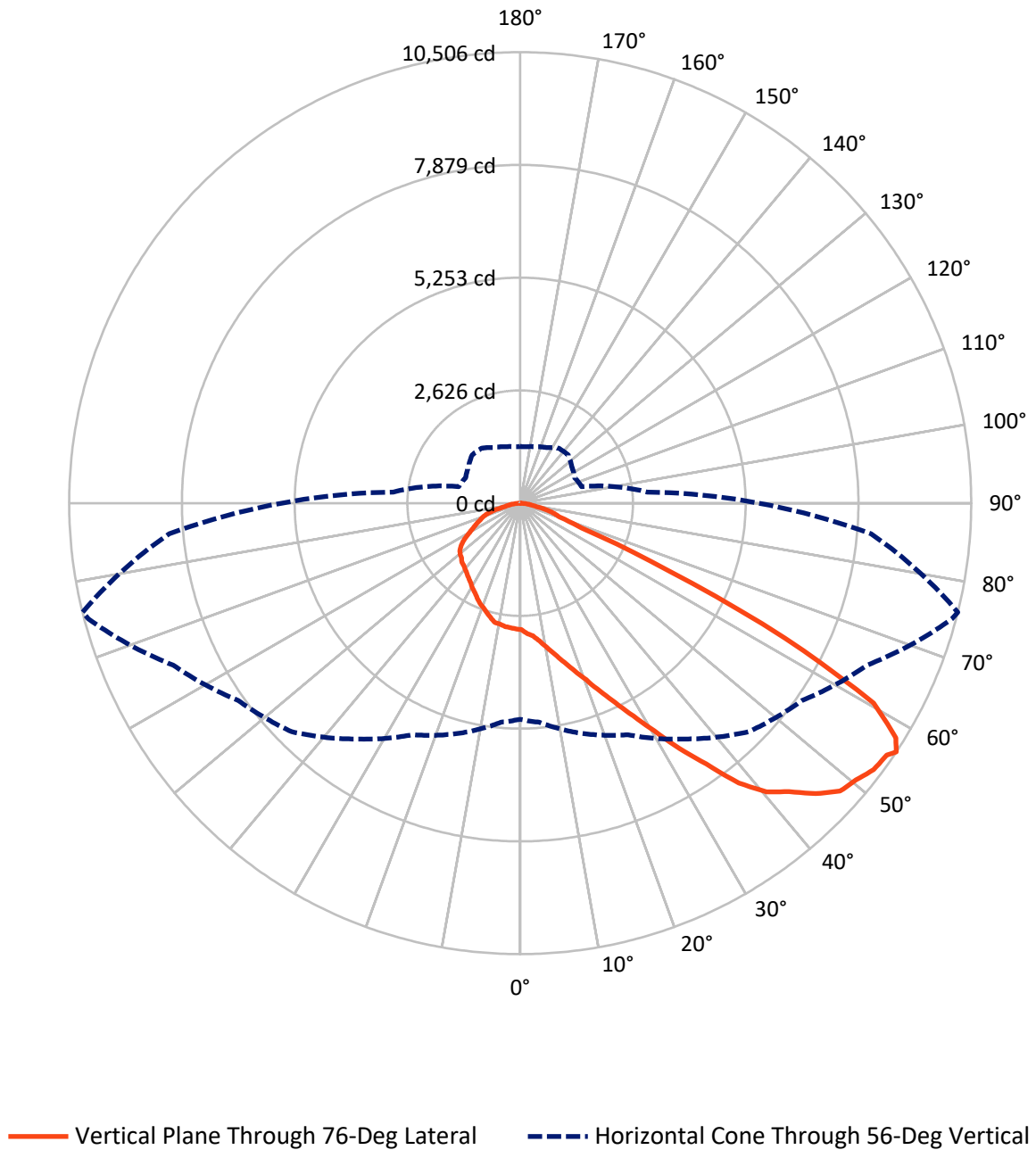


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

REPORT NUMBER: P528812

CATALOG NUMBER: GALN-SA3D-830-U-T2-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P528812

CATALOG NUMBER: GALN-SA3D-830-U-T2-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4138.7	0.0	4138.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	11254.3	0.0	11254.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	15393.0	0.0	15393.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.1	1.9
10°-20°	917.5	6.0
20°-30°	1604.6	10.4
30°-40°	2512.4	16.3
40°-50°	3654.8	23.7
50°-60°	4016.8	26.1
60°-70°	1792.9	11.6
70°-80°	517.9	3.4
80°-90°	84.0	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°	15393.0	100.0
0°-180°	15393.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528812

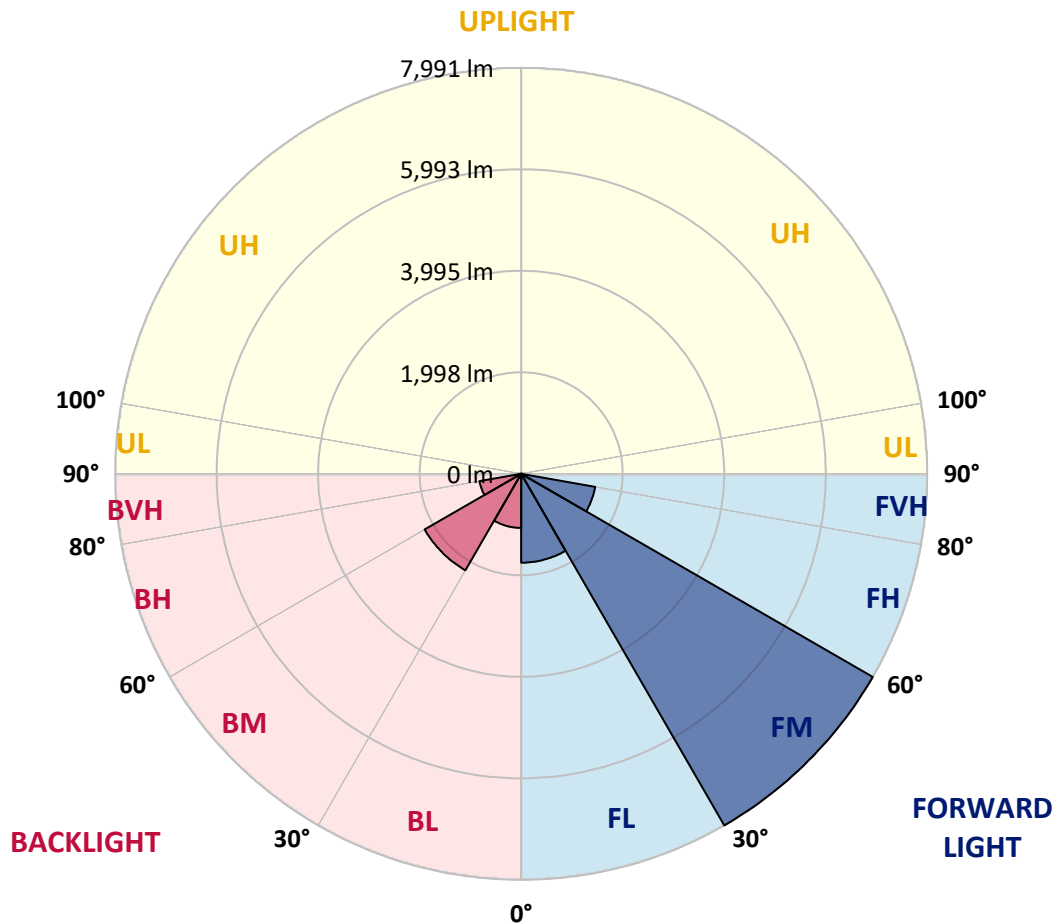
CATALOG NUMBER: GALN-SA3D-830-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1749.2	11.4			
FM	(30°-60°)	7990.8	51.9			
FH	(60°-80°)	1478.1	9.6			G1/1800
FVH	(80°-90°)	36.2	0.2			G1/100
BL	(0°-30°)	1065.0	6.9	B3/2500		
BM	(30°-60°)	2193.2	14.2	B2/2500		
BH	(60°-80°)	832.7	5.4	B2/1000		G2/1000
BVH	(80°-90°)	47.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



REPORT NUMBER: P528812

CATALOG NUMBER: GALN-SA3D-830-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2945.3	2945.3	2945.3	2945.3	2945.3	2945.3	2945.3	2945.3	2945.3	2945.3	2945.3
2.5°	3244.6	3192.7	3188.7	3174.7	3182.7	3146.8	3108.9	3059.0	3007.1	3039.0	2963.2
5°	3472.0	3402.2	3430.1	3382.3	3388.2	3340.3	3262.5	3204.7	3140.8	3102.9	3049.0
7.5°	3551.9	3557.8	3577.8	3569.8	3529.9	3529.9	3478.0	3376.3	3264.5	3242.6	3152.8
10°	3659.6	3661.6	3639.7	3645.6	3701.5	3675.6	3629.7	3585.8	3442.1	3416.2	3256.5
12.5°	3697.5	3661.6	3697.5	3729.5	3795.3	3831.2	3821.2	3789.3	3635.7	3617.7	3384.2
15°	3703.5	3681.6	3711.5	3783.3	3841.2	3992.9	4068.7	4046.7	3843.2	3845.2	3527.9
17.5°	3675.6	3705.5	3717.5	3779.3	3913.0	4054.7	4274.2	4304.1	4136.5	4110.6	3709.5
20°	3713.5	3691.5	3707.5	3763.4	3941.0	4162.5	4449.8	4647.4	4411.9	4393.9	3897.1
22.5°	3859.2	3829.2	3825.2	3861.2	3988.9	4218.3	4635.4	4990.6	4747.1	4757.1	4130.5
25°	3972.9	3988.9	3974.9	3972.9	4052.7	4302.1	4880.8	5399.6	5202.1	5144.2	4405.9
27.5°	4168.5	4206.4	4178.4	4216.3	4198.4	4427.9	5056.4	5852.6	5693.0	5615.1	4655.3
30°	4439.8	4459.8	4433.8	4433.8	4380.0	4603.5	5216.1	6325.5	6259.7	6153.9	4948.7
32.5°	4797.0	4826.9	4775.1	4745.1	4737.1	4864.9	5503.4	6792.4	6904.2	6814.4	5337.8
35°	5269.9	5252.0	5190.1	5162.2	5054.4	5265.9	5930.4	7329.2	7622.5	7462.9	5808.7
37.5°	5687.0	5659.0	5655.0	5499.4	5525.3	5698.9	6293.6	7736.3	8318.9	8273.0	6305.6
40°	6076.1	6102.0	6143.9	6056.1	6016.2	6207.8	6716.6	8047.6	8859.7	8841.7	6688.7
42.5°	6493.1	6469.2	6543.0	6469.2	6409.3	6680.7	7175.6	8263.1	9334.6	9187.0	7089.8
45°	7097.7	7021.9	7047.9	7053.8	7009.9	7109.7	7365.1	8418.7	9667.9	9651.9	7383.1
47.5°	7602.6	7604.6	7560.7	7526.8	7393.1	7492.8	7576.6	8516.5	10051.0	10025.0	7496.8
50°	7790.2	7764.2	7891.9	7965.8	7973.7	7770.2	7742.3	8570.4	10252.5	10138.8	7610.6
52.5°	7115.7	7139.6	7341.2	7780.2	8033.6	8055.5	7935.8	8682.1	10334.3	10310.4	7702.4
55°	5726.9	5842.6	6173.9	6680.7	7281.3	7941.8	8145.3	8797.8	10378.2	10358.3	8109.4
56°	5034.5	5124.3	5555.3	5952.4	6706.6	7528.8	8013.6	8921.6	10412.1	10505.9	8205.2
57.5°	4052.7	4156.5	4465.8	4916.7	5806.7	6742.6	7650.5	8769.9	10280.4	10316.4	8275.0
60°	2534.2	2544.2	2915.3	3212.6	3839.2	4753.1	5838.6	7630.5	9514.2	9462.3	7433.0
62.5°	1662.2	1664.2	2001.4	2244.9	2530.2	2739.7	3436.1	5060.4	7019.9	6928.1	5291.9
65°	1167.3	1193.3	1454.7	1779.9	1895.7	1785.9	1764.0	2667.9	3921.0	3789.3	2843.5
67.5°	854.0	856.0	1087.5	1436.7	1604.3	1358.9	1103.5	1303.0	1552.4	1548.5	1317.0
70°	564.7	588.7	766.2	1073.5	1265.1	1091.5	901.9	931.9	987.7	987.7	979.8
72.5°	329.2	351.2	468.9	680.4	710.4	682.4	714.4	798.2	834.1	832.1	822.1
75°	187.6	197.5	223.5	283.4	353.2	417.0	524.8	604.6	640.5	662.5	636.5
77.5°	109.7	115.7	131.7	161.6	183.6	225.5	285.3	341.2	389.1	383.1	387.1
80°	57.9	57.9	73.8	95.8	127.7	159.6	189.6	221.5	247.4	253.4	259.4
82.5°	33.9	35.9	47.9	69.8	91.8	113.7	145.7	167.6	191.6	193.6	197.5
85°	18.0	20.0	29.9	45.9	61.9	69.8	71.8	67.8	73.8	69.8	79.8
87.5°	6.0	6.0	10.0	8.0	8.0	10.0	12.0	12.0	16.0	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P528812

CATALOG NUMBER: GALN-SA3D-830-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2945.3	2945.3	2945.3	2945.3	2945.3	2945.3	2945.3	2945.3	2945.3	2945.3	2945.3
2.5°	2961.2	2961.2	2927.3	2863.4	2853.5	2827.5	2803.6	2801.6	2783.6	2767.7	2759.7
5°	3017.1	2955.2	2905.3	2847.5	2779.6	2747.7	2711.8	2671.9	2655.9	2671.9	2669.9
7.5°	3080.9	3029.1	2879.4	2771.7	2693.8	2661.9	2622.0	2580.1	2584.1	2584.1	2556.1
10°	3142.8	3073.0	2833.5	2695.8	2582.1	2558.1	2536.2	2552.2	2572.1	2576.1	2558.1
12.5°	3246.6	3088.9	2811.6	2620.0	2548.2	2496.3	2510.2	2554.1	2596.1	2584.1	2598.0
15°	3324.4	3102.9	2711.8	2542.2	2452.4	2476.3	2526.2	2556.1	2626.0	2618.0	2632.0
17.5°	3400.2	3110.9	2614.0	2438.4	2400.5	2466.3	2504.3	2590.1	2612.0	2659.9	2677.9
20°	3555.9	3126.8	2514.2	2374.6	2362.6	2438.4	2504.3	2544.2	2592.1	2634.0	2634.0
22.5°	3635.7	3118.9	2448.4	2290.8	2328.7	2376.6	2436.4	2504.3	2504.3	2544.2	2546.2
25°	3735.4	3086.9	2344.6	2250.8	2278.8	2324.7	2392.5	2368.6	2394.5	2394.5	2426.4
27.5°	3849.2	3019.1	2254.8	2179.0	2234.9	2284.8	2294.7	2278.8	2248.8	2244.9	2232.9
30°	3941.0	2935.3	2189.0	2155.1	2201.0	2228.9	2197.0	2163.0	2111.2	2107.2	2079.2
32.5°	4066.7	2831.5	2107.2	2095.2	2147.1	2149.1	2139.1	2087.2	2011.4	1979.5	1947.5
35°	4278.2	2771.7	2045.3	2063.3	2079.2	2073.3	2055.3	1999.4	1923.6	1909.6	1897.7
37.5°	4433.8	2727.8	1981.5	2003.4	2017.4	2025.4	1971.5	1909.6	1911.6	1883.7	1875.7
40°	4609.4	2699.8	1929.6	1939.6	1941.6	1967.5	1901.6	1871.7	1885.7	1867.7	1879.7
42.5°	4834.9	2707.8	1875.7	1867.7	1905.6	1895.7	1863.7	1823.8	1831.8	1777.9	1785.9
45°	4954.6	2761.7	1843.8	1807.9	1849.8	1847.8	1805.9	1767.9	1720.1	1616.3	1620.3
47.5°	5034.5	2775.6	1767.9	1744.0	1787.9	1813.8	1766.0	1678.2	1610.3	1536.5	1518.5
50°	5116.3	2801.6	1732.0	1682.1	1700.1	1762.0	1702.1	1618.3	1552.4	1486.6	1496.6
52.5°	5188.1	2851.5	1662.2	1588.4	1620.3	1688.1	1656.2	1554.4	1482.6	1428.7	1412.8
55°	5507.4	2963.2	1544.5	1448.7	1524.5	1610.3	1592.4	1468.6	1390.8	1362.9	1358.9
56°	5557.3	2967.2	1482.6	1400.8	1470.6	1584.4	1562.4	1430.7	1360.9	1317.0	1319.0
57.5°	5565.3	2919.3	1394.8	1356.9	1416.8	1546.5	1518.5	1400.8	1305.0	1265.1	1253.1
60°	4896.8	2278.8	1285.1	1261.1	1331.0	1430.7	1420.7	1319.0	1211.2	1165.3	1187.3
62.5°	3338.4	1670.2	1199.3	1195.3	1231.2	1329.0	1303.0	1211.2	1121.4	1091.5	1077.5
65°	1943.5	1267.1	1115.4	1099.5	1129.4	1181.3	1199.3	1103.5	1009.7	989.7	983.7
67.5°	1147.4	1047.6	1007.7	981.8	971.8	1003.7	1017.7	961.8	868.0	840.1	864.0
70°	959.8	931.9	933.9	890.0	866.0	844.1	832.1	782.2	704.4	668.5	658.5
72.5°	828.1	816.1	808.1	768.2	746.3	696.4	644.5	594.6	536.8	506.8	508.8
75°	632.6	628.6	632.6	612.6	574.7	534.8	486.9	423.0	379.1	341.2	349.2
77.5°	377.1	389.1	395.1	387.1	371.1	335.2	305.3	263.4	221.5	191.6	187.6
80°	259.4	269.4	279.4	269.4	253.4	227.5	195.6	163.6	133.7	117.7	113.7
82.5°	197.5	207.5	213.5	203.5	183.6	155.6	133.7	111.7	87.8	71.8	67.8
85°	71.8	81.8	79.8	95.8	103.8	99.8	85.8	65.8	49.9	35.9	33.9
87.5°	20.0	18.0	20.0	20.0	20.0	18.0	16.0	16.0	16.0	10.0	8.0
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)