

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: P530920

Luminaire Tested: **GALN-SA6A-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18937 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 182
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

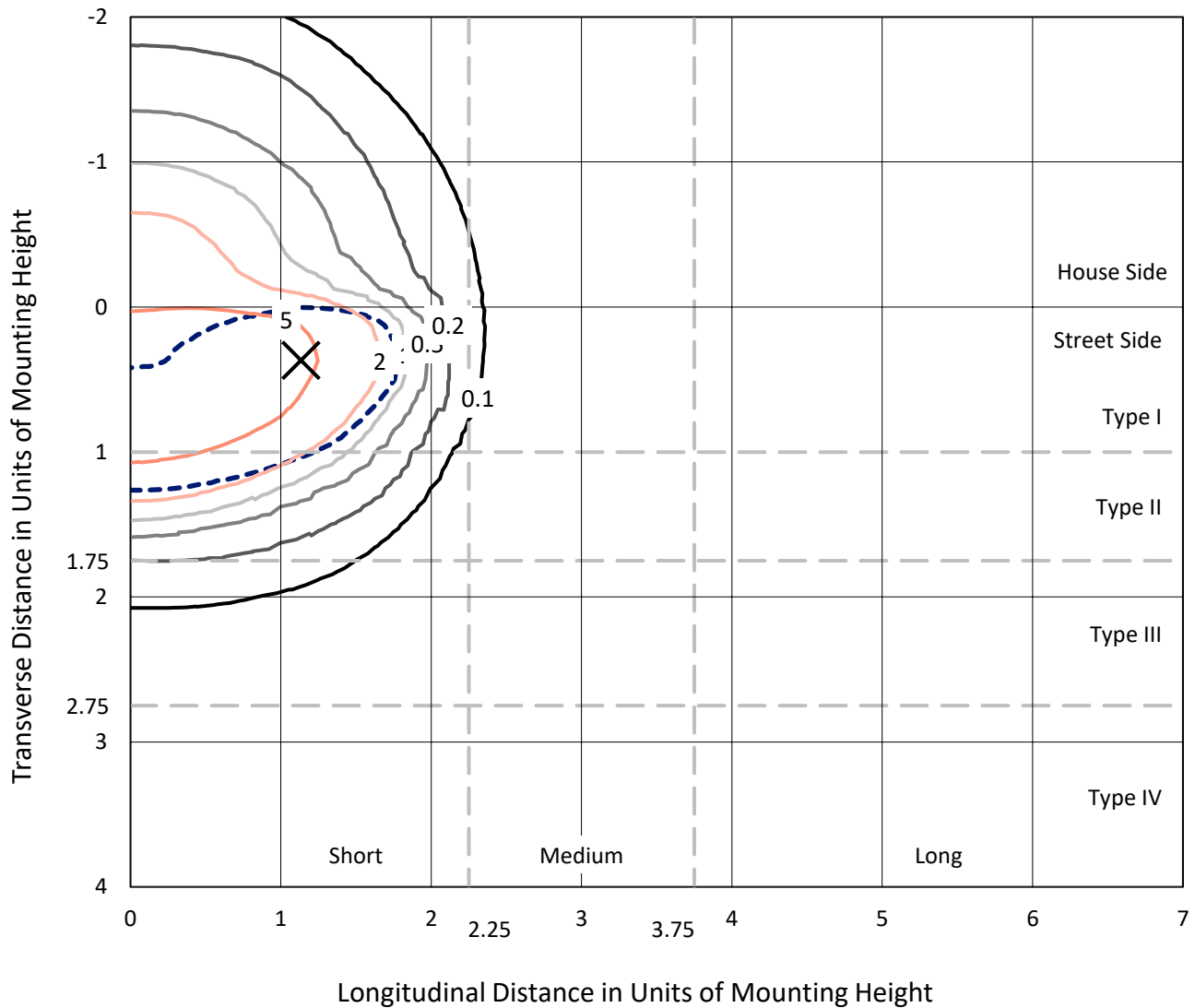


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Iso-Footcandle Lines of Horizontal Illumination

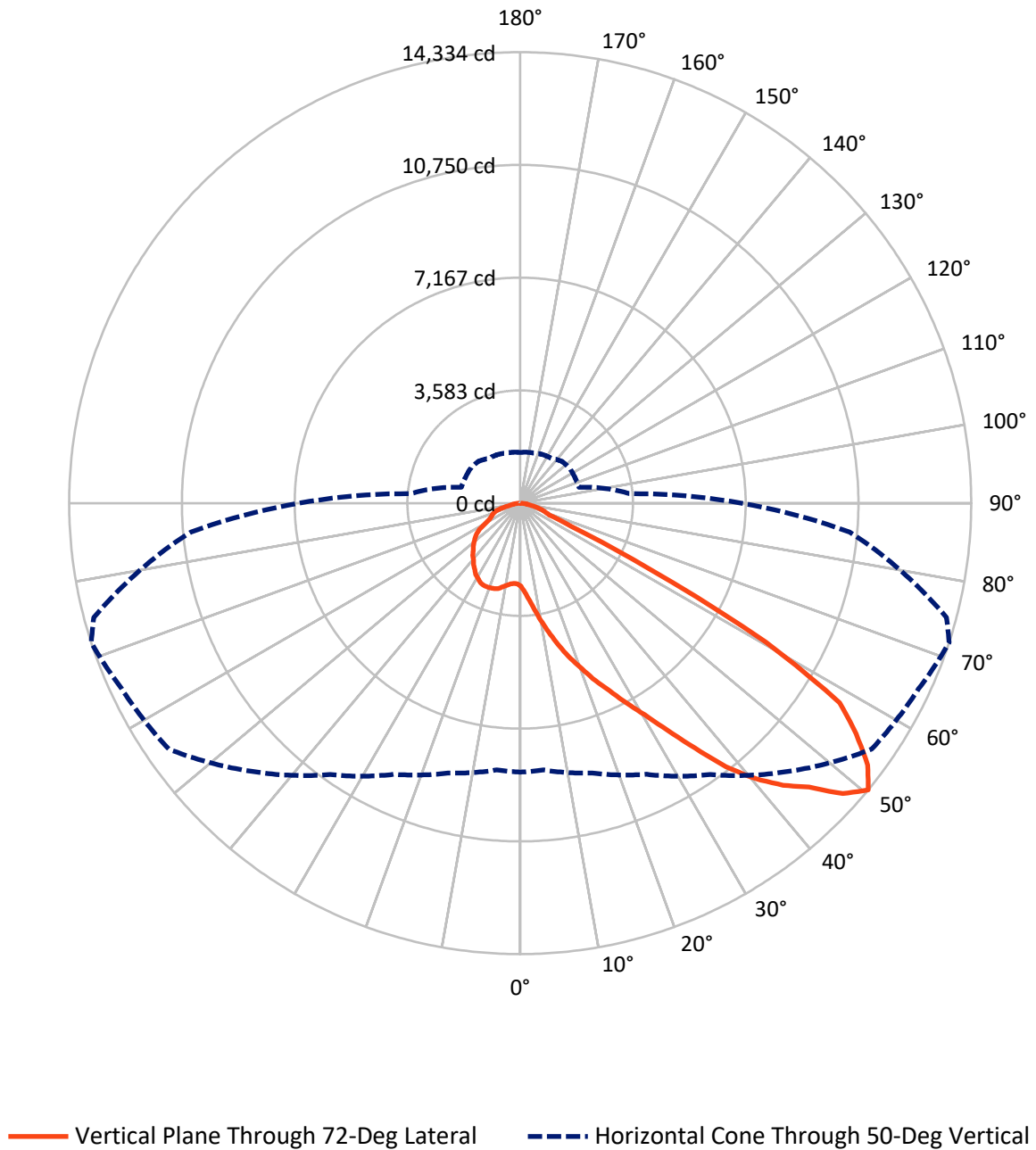
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	4338.6	0.0	4338.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	14598.4	0.0	14598.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	18937.0	0.0	18937.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.1	1.6
10°-20°	1159.2	6.1
20°-30°	2247.6	11.9
30°-40°	3723.5	19.7
40°-50°	5210.0	27.5
50°-60°	4395.3	23.2
60°-70°	1339.7	7.1
70°-80°	470.0	2.5
80°-90°	81.7	0.4
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°	18937.0	100.0
0°-180°	18937.0	100.0

Coefficient of Utilization



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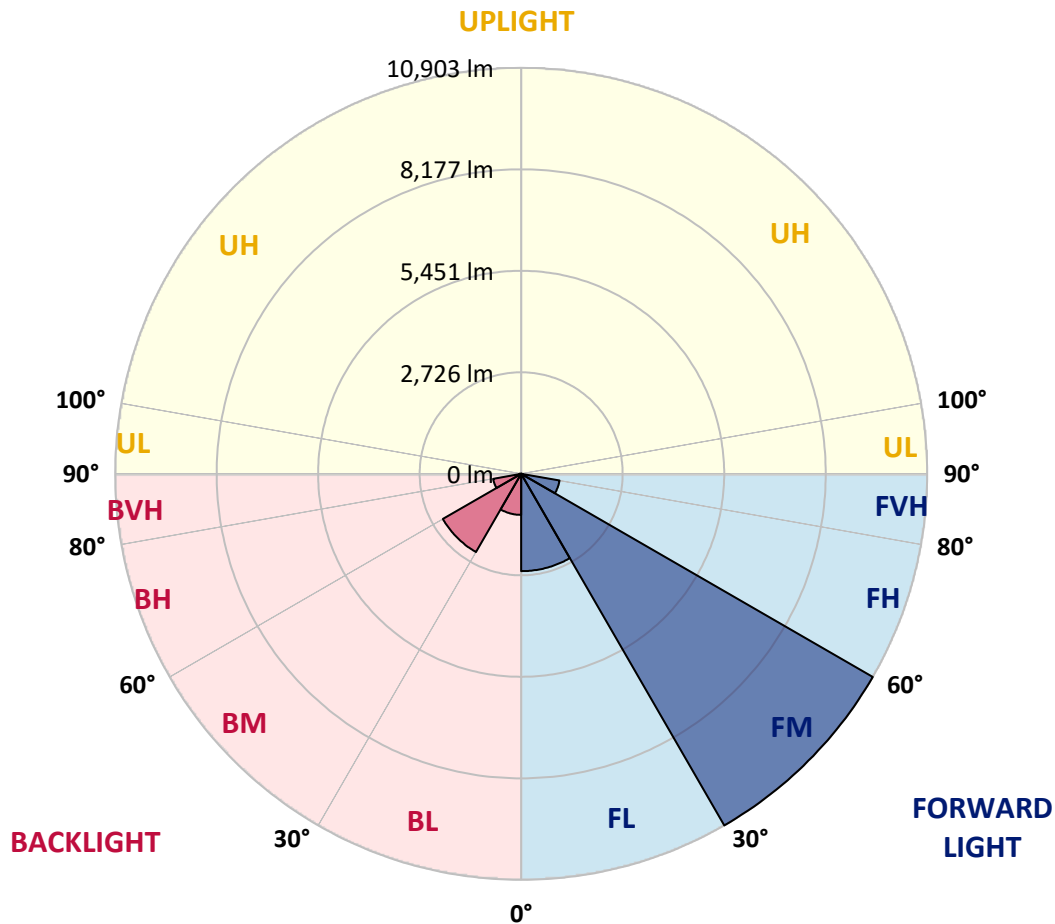
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2614.0	13.8			
FM	(30°-60°)	10902.5	57.6			
FH	(60°-80°)	1045.3	5.5			G1/1800
FVH	(80°-90°)	36.6	0.2			G1/100
BL	(0°-30°)	1102.9	5.8	B3/2500		
BM	(30°-60°)	2426.2	12.8	B2/2500		
BH	(60°-80°)	764.4	4.0	B2/1000		G2/1000
BVH	(80°-90°)	45.1	0.2			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2636.2	2636.2	2636.2	2636.2	2636.2	2636.2	2636.2	2636.2	2636.2	2636.2	2636.2
2.5°	3390.7	3369.6	3306.4	3285.3	3210.3	3074.4	3027.5	2889.3	2830.7	2776.8	2713.5
5°	4288.2	4189.8	4182.8	4063.3	3889.8	3789.1	3489.1	3287.6	3102.5	3008.8	2835.4
7.5°	4860.0	4862.3	4862.3	4763.9	4625.6	4370.2	4100.7	3737.5	3458.7	3320.4	3025.2
10°	5403.6	5356.7	5331.0	5321.6	5227.9	4979.5	4691.2	4241.3	3859.4	3697.7	3168.1
12.5°	5787.9	5748.1	5806.7	5776.2	5708.2	5546.5	5274.7	4761.5	4283.5	4065.6	3397.8
15°	5970.7	5998.8	6045.7	6130.0	6099.6	6038.6	5738.7	5295.8	4740.5	4494.4	3601.6
17.5°	6251.9	6174.5	6230.8	6336.2	6420.6	6392.5	6221.4	5682.5	5192.7	4890.4	3875.8
20°	6448.7	6404.2	6432.3	6554.2	6617.4	6776.8	6687.7	6188.6	5626.2	5307.5	4199.2
22.5°	7011.1	6945.5	6854.1	6872.8	6896.3	7008.8	7029.8	6744.0	6130.0	5792.6	4506.1
25°	7704.7	7643.8	7536.0	7425.9	7357.9	7336.8	7409.5	7179.8	6612.7	6263.6	4836.5
27.5°	8468.6	8365.5	8297.6	8070.3	7887.5	7859.4	7824.2	7700.0	7184.5	6807.2	5209.1
30°	9211.4	9129.4	9038.0	8674.8	8485.0	8454.6	8281.2	8316.3	7805.5	7386.0	5630.9
32.5°	9773.8	9780.9	9572.3	9298.1	9120.1	8958.4	8895.1	8995.9	8602.2	8264.8	6101.9
35°	10228.4	10249.5	10050.3	9801.9	9609.8	9722.3	9694.2	9741.0	9553.6	9141.1	6650.2
37.5°	10671.3	10565.9	10352.6	10233.1	10132.3	10317.5	10556.5	10596.3	10631.5	10146.4	7287.6
40°	10743.9	10753.3	10629.1	10713.5	10586.9	10865.8	11421.2	11369.6	11512.5	11088.4	7978.9
42.5°	10640.8	10661.9	10711.1	10830.6	11135.3	11470.4	12295.2	12084.3	12257.7	11880.4	8651.4
45°	10472.1	10385.4	10446.3	10900.9	11428.2	12173.3	13094.3	12930.2	12874.0	12557.6	9452.8
47.5°	9666.0	9755.1	9944.9	10504.9	11297.0	12295.2	13661.3	13623.8	13792.6	13569.9	10181.6
50°	8548.3	8513.1	8878.7	9509.0	10530.7	12056.2	13630.9	13970.6	14333.9	14024.5	10507.3
52.5°	6401.8	6589.3	6903.3	7686.0	9143.5	10753.3	12965.4	13532.5	13827.7	13762.1	10244.8
55°	4046.8	4103.1	4292.9	5223.2	6535.4	8630.3	11114.2	12428.8	12956.0	13202.0	10003.5
57.5°	1966.0	1860.6	2092.6	2840.1	3775.0	5804.3	8571.7	10826.0	11971.8	12417.0	9478.6
60°	1026.4	1066.2	1157.6	1424.7	1952.0	3013.5	5342.7	7215.0	8965.4	9649.6	7184.5
62.5°	850.6	864.7	925.6	1059.2	1298.2	1734.0	2727.6	3517.3	4571.7	5188.0	4086.7
65°	721.7	728.8	794.4	883.4	1035.7	1220.8	1403.6	1469.2	1778.6	1825.4	1452.8
67.5°	602.2	609.3	679.6	763.9	862.3	911.5	958.4	953.7	988.9	974.8	972.5
70°	464.0	471.0	543.6	632.7	681.9	653.8	799.1	831.9	845.9	857.6	876.4
72.5°	335.1	349.1	405.4	468.7	442.9	508.5	658.5	707.7	726.4	733.4	756.9
75°	243.7	248.4	262.4	243.7	281.2	353.8	464.0	524.9	548.3	555.4	590.5
77.5°	107.8	110.1	112.5	140.6	180.4	220.3	276.5	325.7	358.5	367.9	377.3
80°	56.2	58.6	72.6	96.1	128.9	161.7	201.5	229.6	250.7	253.1	262.4
82.5°	35.1	37.5	51.6	68.0	91.4	119.5	147.6	171.1	187.5	189.8	192.1
85°	16.4	21.1	30.5	42.2	60.9	77.3	79.7	68.0	72.6	75.0	70.3
87.5°	4.7	7.0	9.4	7.0	9.4	9.4	11.7	14.1	14.1	14.1	16.4
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°	2636.2	2636.2	2636.2	2636.2	2636.2	2636.2	2636.2	2636.2	2636.2	2636.2	2636.2
2.5°	2678.4	2657.3	2575.3	2544.8	2465.1	2479.2	2437.0	2434.7	2425.3	2423.0	2420.6
5°	2744.0	2678.4	2580.0	2505.0	2460.4	2455.8	2425.3	2425.3	2434.7	2441.7	2425.3
7.5°	2851.8	2776.8	2610.4	2540.1	2500.3	2493.3	2472.2	2455.8	2476.8	2469.8	2451.1
10°	2976.0	2844.7	2669.0	2608.1	2542.5	2526.1	2526.1	2533.1	2497.9	2509.7	2490.9
12.5°	3114.2	2938.5	2744.0	2673.7	2596.4	2587.0	2582.3	2530.7	2549.5	2540.1	2493.3
15°	3290.0	3046.3	2840.1	2720.6	2654.9	2612.8	2551.8	2542.5	2530.7	2507.3	2486.2
17.5°	3479.8	3163.4	2884.6	2734.6	2636.2	2605.7	2558.9	2509.7	2474.5	2479.2	2462.8
20°	3641.5	3271.2	2901.0	2748.7	2622.1	2563.6	2490.9	2460.4	2423.0	2420.6	2418.3
22.5°	3833.6	3416.5	2924.4	2711.2	2580.0	2519.0	2469.8	2415.9	2390.1	2357.3	2373.7
25°	4063.3	3472.7	2929.1	2690.1	2549.5	2441.7	2415.9	2357.3	2348.0	2301.1	2310.5
27.5°	4229.6	3503.2	2891.6	2624.5	2479.2	2397.2	2350.3	2308.1	2291.7	2256.6	2247.2
30°	4452.2	3550.1	2811.9	2542.5	2408.9	2317.5	2289.4	2280.0	2233.1	2195.7	2191.0
32.5°	4705.3	3580.5	2760.4	2458.1	2336.3	2266.0	2280.0	2235.5	2176.9	2144.1	2134.7
35°	4906.8	3592.3	2631.5	2362.0	2287.0	2242.5	2226.1	2216.7	2132.4	2101.9	2078.5
37.5°	5213.8	3566.5	2523.7	2294.1	2233.1	2216.7	2202.7	2139.4	2043.3	1998.8	1966.0
40°	5572.3	3559.4	2385.5	2198.0	2181.6	2200.3	2158.2	2059.7	1926.2	1877.0	1853.5
42.5°	5916.8	3608.7	2298.8	2146.4	2125.4	2132.4	2073.8	1926.2	1860.6	1832.4	1795.0
45°	6493.2	3711.8	2155.8	2066.8	2057.4	2052.7	1982.4	1827.8	1790.3	1755.1	1748.1
47.5°	7013.4	3643.8	2064.4	1984.8	1994.1	1968.4	1818.4	1769.2	1727.0	1691.8	1680.1
50°	7043.9	3482.1	1935.6	1921.5	1923.8	1879.3	1736.4	1703.6	1649.7	1626.2	1609.8
52.5°	6884.6	3217.3	1816.0	1820.7	1827.8	1755.1	1635.6	1612.2	1567.7	1534.8	1525.5
55°	6437.0	2804.9	1698.9	1717.6	1736.4	1598.1	1560.6	1502.0	1466.9	1420.0	1422.4
57.5°	5670.7	2258.9	1534.8	1565.3	1605.1	1452.8	1424.7	1352.1	1300.5	1263.0	1258.3
60°	3800.8	1607.5	1288.8	1300.5	1389.6	1328.6	1326.3	1253.7	1183.4	1150.6	1131.8
62.5°	2242.5	1227.9	1113.1	1101.3	1099.0	1134.1	1192.7	1167.0	1075.6	1012.3	1031.0
65°	1174.0	1061.5	1035.7	995.9	972.5	963.1	1007.6	1019.3	958.4	890.4	885.8
67.5°	986.5	986.5	965.4	951.4	918.6	878.7	850.6	813.1	803.7	785.0	761.6
70°	897.5	920.9	913.9	881.1	853.0	808.4	735.8	674.9	616.3	595.2	609.3
72.5°	782.7	806.1	806.1	789.7	752.2	684.2	613.9	543.6	494.4	456.9	452.3
75°	602.2	613.9	642.1	623.3	574.1	531.9	459.3	386.6	339.8	304.6	297.6
77.5°	384.3	403.0	403.0	400.7	365.6	325.7	278.9	227.3	192.1	166.4	159.3
80°	255.4	267.1	276.5	267.1	243.7	213.2	178.1	142.9	117.2	96.1	91.4
82.5°	187.5	201.5	208.6	199.2	175.7	152.3	126.5	100.8	75.0	58.6	53.9
85°	72.6	75.0	84.4	100.8	98.4	96.1	77.3	56.2	42.2	30.5	28.1
87.5°	18.7	16.4	18.7	18.7	16.4	14.1	14.1	14.1	14.1	7.0	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)