

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: P530218

Luminaire Tested: **GALN-SA5B-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530218
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-SA5B-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA 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: 19898 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

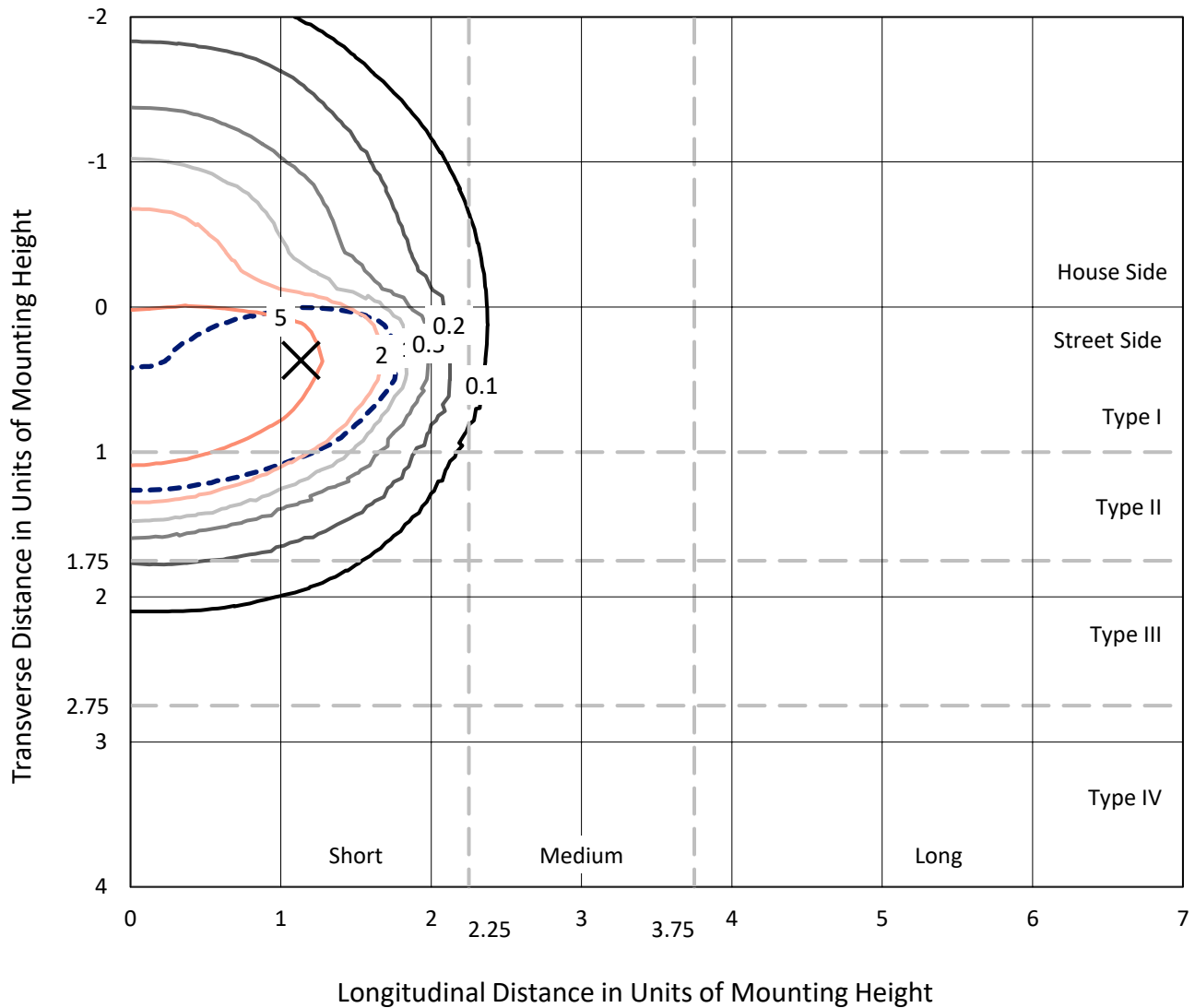
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

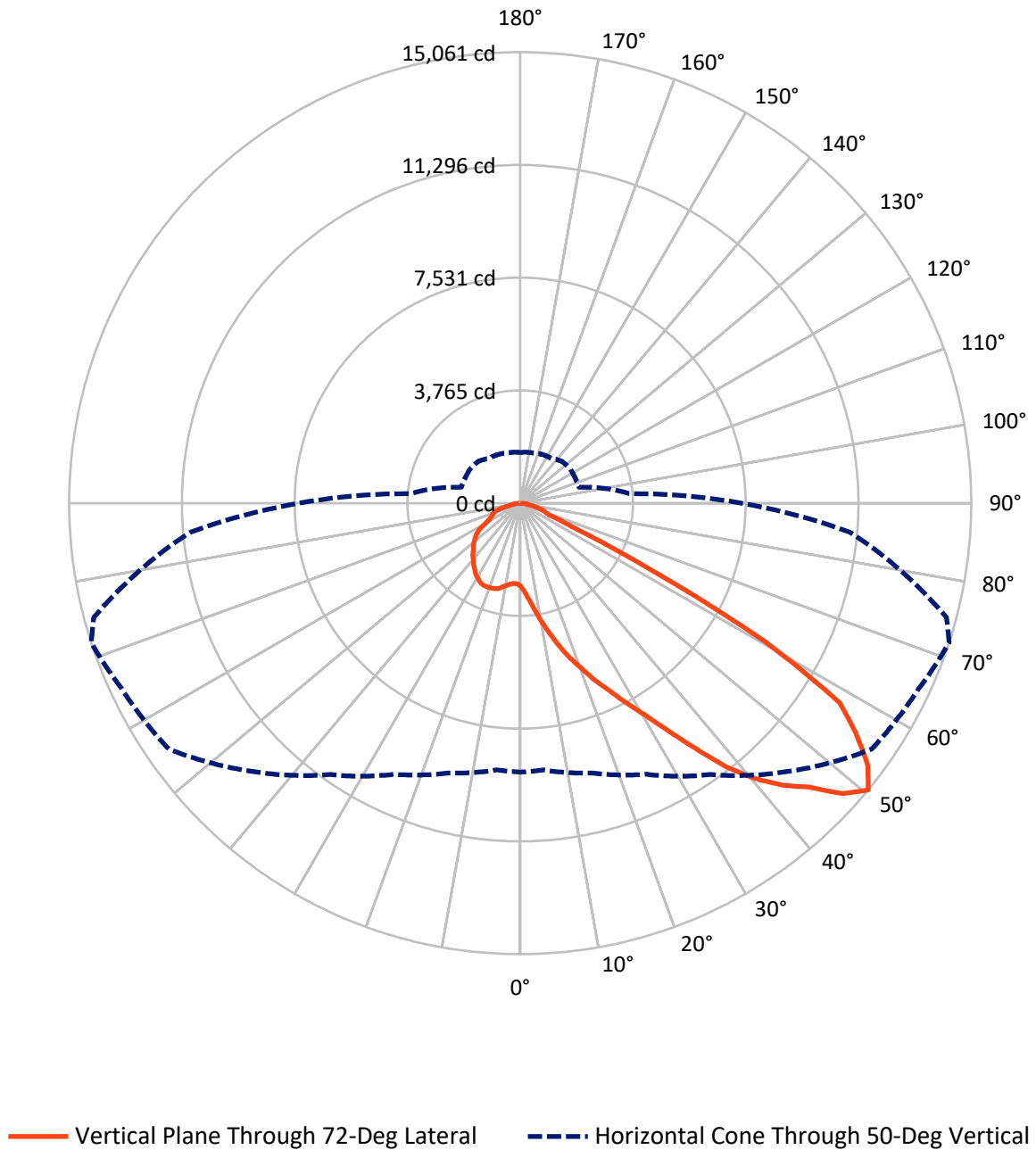
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	4558.7	0.0	4558.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	15339.3	0.0	15339.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	19898.0	0.0	19898.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.8	1.6
10°-20°	1218.0	6.1
20°-30°	2361.7	11.9
30°-40°	3912.5	19.7
40°-50°	5474.4	27.5
50°-60°	4618.3	23.2
60°-70°	1407.7	7.1
70°-80°	493.8	2.5
80°-90°	85.9	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°	19898.0	100.0
0°-180°	19898.0	100.0

Coefficient of Utilization



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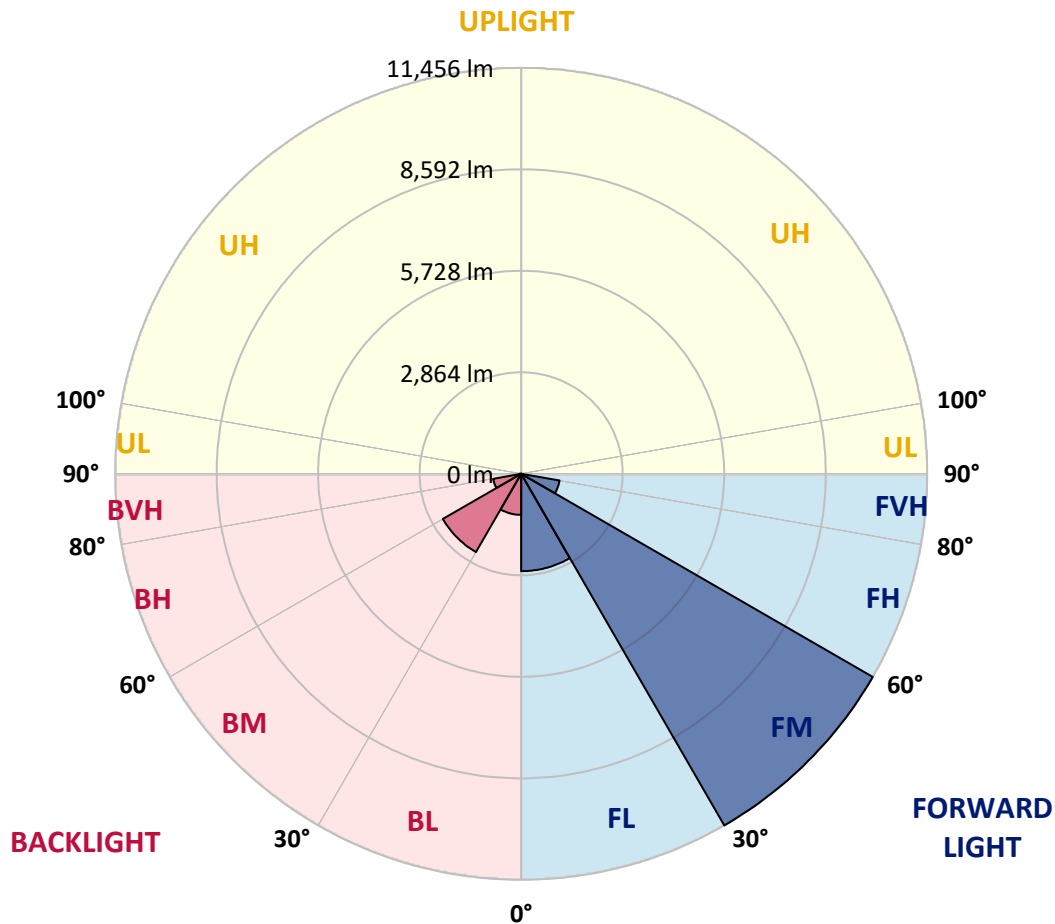
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2746.6	13.8			
FM	(30°-60°)	11455.8	57.6			
FH	(60°-80°)	1098.3	5.5			G1/1800
FVH	(80°-90°)	38.5	0.2			G1/100
BL	(0°-30°)	1158.9	5.8	B3/2500		
BM	(30°-60°)	2549.3	12.8	B3/5000		
BH	(60°-80°)	803.2	4.0	B2/1000		G2/1000
BVH	(80°-90°)	47.4	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°	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0
2.5°	3562.8	3540.6	3474.2	3452.0	3373.2	3230.4	3181.2	3035.9	2974.3	2917.7	2851.2
5°	4505.8	4402.4	4395.0	4269.4	4087.2	3981.4	3666.2	3454.5	3259.9	3161.5	2979.3
7.5°	5106.6	5109.1	5109.1	5005.6	4860.4	4592.0	4308.8	3927.2	3634.2	3488.9	3178.7
10°	5677.8	5628.6	5601.5	5591.6	5493.2	5232.2	4929.3	4456.6	4055.2	3885.3	3328.9
12.5°	6081.6	6039.8	6101.3	6069.3	5997.9	5828.0	5542.4	5003.2	4500.9	4271.9	3570.2
15°	6273.7	6303.2	6352.5	6441.1	6409.1	6345.1	6029.9	5564.6	4981.0	4722.5	3784.4
17.5°	6569.1	6487.9	6547.0	6657.8	6746.4	6716.9	6537.1	5970.8	5456.2	5138.6	4072.5
20°	6776.0	6729.2	6758.7	6886.8	6953.2	7120.7	7027.1	6502.7	5911.7	5576.9	4412.3
22.5°	7366.9	7298.0	7201.9	7221.6	7246.2	7364.4	7386.6	7086.2	6441.1	6086.6	4734.8
25°	8095.7	8031.7	7918.4	7802.7	7731.3	7709.1	7785.5	7544.2	6948.3	6581.5	5082.0
27.5°	8898.4	8790.0	8718.6	8479.8	8287.8	8258.2	8221.3	8090.8	7549.1	7152.7	5473.5
30°	9678.9	9592.7	9496.7	9115.1	8915.6	8883.6	8701.4	8738.3	8201.6	7760.8	5916.7
32.5°	10269.8	10277.2	10058.1	9770.0	9582.9	9413.0	9346.5	9452.4	9038.7	8684.2	6411.6
35°	10747.5	10769.6	10560.4	10299.4	10097.5	10215.7	10186.1	10235.4	10038.4	9605.0	6987.7
37.5°	11212.8	11102.0	10878.0	10752.4	10646.5	10841.1	11092.2	11134.1	11171.0	10661.3	7657.4
40°	11289.2	11299.0	11168.5	11257.2	11124.2	11417.2	12000.7	11946.6	12096.8	11651.1	8383.8
42.5°	11180.8	11203.0	11254.7	11380.3	11700.4	12052.5	12919.1	12697.5	12879.8	12483.3	9090.4
45°	11003.6	10912.5	10976.5	11454.1	12008.1	12791.1	13758.8	13586.4	13527.3	13194.9	9932.5
47.5°	10156.6	10250.1	10449.6	11038.0	11870.3	12919.1	14354.6	14315.2	14492.5	14258.6	10698.2
50°	8982.1	8945.2	9329.3	9991.6	11065.1	12668.0	14322.6	14679.6	15061.3	14736.2	11040.5
52.5°	6726.7	6923.7	7253.6	8076.0	9607.5	11299.0	13623.3	14219.2	14529.4	14460.5	10764.7
55°	4252.2	4311.3	4510.7	5488.2	6867.1	9068.3	11678.2	13059.5	13613.5	13872.0	10511.1
57.5°	2065.8	1955.0	2198.7	2984.2	3966.6	6098.9	9006.7	11375.3	12579.4	13047.2	9959.6
60°	1078.4	1120.3	1216.3	1497.0	2051.0	3166.4	5613.8	7581.1	9420.4	10139.3	7549.1
62.5°	893.8	908.6	972.6	1112.9	1364.1	1822.0	2866.0	3695.8	4803.7	5451.3	4294.1
65°	758.4	765.7	834.7	928.2	1088.3	1282.8	1474.9	1543.8	1868.8	1918.1	1526.6
67.5°	632.8	640.2	714.0	802.7	906.1	957.8	1007.0	1002.1	1039.0	1024.3	1021.8
70°	487.5	494.9	571.2	664.8	716.5	687.0	839.6	874.1	888.9	901.2	920.9
72.5°	352.1	366.9	426.0	492.4	465.4	534.3	691.9	743.6	763.3	770.7	795.3
75°	256.1	261.0	275.8	256.1	295.5	371.8	487.5	551.5	576.2	583.5	620.5
77.5°	113.3	115.7	118.2	147.7	189.6	231.4	290.5	342.2	376.7	386.6	396.4
80°	59.1	61.6	76.3	101.0	135.4	169.9	211.7	241.3	263.5	265.9	275.8
82.5°	36.9	39.4	54.2	71.4	96.0	125.6	155.1	179.7	197.0	199.4	201.9
85°	17.2	22.2	32.0	44.3	64.0	81.3	83.7	71.4	76.3	78.8	73.9
87.5°	4.9	7.4	9.8	7.4	9.8	9.8	12.3	14.8	14.8	14.8	17.2
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°	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0
2.5°	2814.3	2792.1	2706.0	2673.9	2590.2	2605.0	2560.7	2558.2	2548.4	2545.9	2543.4
5°	2883.2	2814.3	2710.9	2632.1	2585.3	2580.4	2548.4	2548.4	2558.2	2565.6	2548.4
7.5°	2996.5	2917.7	2742.9	2669.0	2627.2	2619.8	2597.6	2580.4	2602.5	2595.2	2575.5
10°	3127.0	2989.1	2804.4	2740.4	2671.5	2654.2	2654.2	2661.6	2624.7	2637.0	2617.3
12.5°	3272.3	3087.6	2883.2	2809.4	2728.1	2718.3	2713.3	2659.2	2678.9	2669.0	2619.8
15°	3456.9	3200.9	2984.2	2858.6	2789.7	2745.3	2681.3	2671.5	2659.2	2634.6	2612.4
17.5°	3656.4	3324.0	3031.0	2873.4	2770.0	2738.0	2688.7	2637.0	2600.1	2605.0	2587.8
20°	3826.3	3437.2	3048.2	2888.2	2755.2	2693.6	2617.3	2585.3	2545.9	2543.4	2541.0
22.5°	4028.2	3589.9	3072.8	2848.8	2710.9	2646.9	2595.2	2538.5	2511.4	2477.0	2494.2
25°	4269.4	3649.0	3077.7	2826.6	2678.9	2565.6	2538.5	2477.0	2467.1	2417.9	2427.7
27.5°	4444.3	3681.0	3038.4	2757.7	2605.0	2518.8	2469.6	2425.3	2408.0	2371.1	2361.2
30°	4678.2	3730.2	2954.6	2671.5	2531.1	2435.1	2405.6	2395.7	2346.5	2307.1	2302.2
32.5°	4944.1	3762.2	2900.5	2582.8	2454.8	2380.9	2395.7	2348.9	2287.4	2252.9	2243.1
35°	5155.8	3774.5	2765.0	2481.9	2403.1	2356.3	2339.1	2329.2	2240.6	2208.6	2184.0
37.5°	5478.4	3747.5	2651.8	2410.5	2346.5	2329.2	2314.5	2248.0	2147.0	2100.3	2065.8
40°	5855.1	3740.1	2506.5	2309.5	2292.3	2312.0	2267.7	2164.3	2023.9	1972.2	1947.6
42.5°	6217.0	3791.8	2415.4	2255.4	2233.2	2240.6	2179.0	2023.9	1955.0	1925.4	1886.0
45°	6822.7	3900.1	2265.2	2171.7	2161.8	2156.9	2083.0	1920.5	1881.1	1844.2	1836.8
47.5°	7369.4	3828.7	2169.2	2085.5	2095.3	2068.2	1910.7	1859.0	1814.6	1777.7	1765.4
50°	7401.4	3658.8	2033.8	2019.0	2021.5	1974.7	1824.5	1790.0	1733.4	1708.8	1691.5
52.5°	7233.9	3380.6	1908.2	1913.1	1920.5	1844.2	1718.6	1694.0	1647.2	1612.7	1602.9
55°	6763.7	2947.2	1785.1	1804.8	1824.5	1679.2	1639.8	1578.3	1541.3	1492.1	1494.6
57.5°	5958.5	2373.6	1612.7	1644.7	1686.6	1526.6	1497.0	1420.7	1366.5	1327.1	1322.2
60°	3993.7	1689.1	1354.2	1366.5	1460.1	1396.1	1393.6	1317.3	1243.4	1208.9	1189.2
62.5°	2356.3	1290.2	1169.5	1157.2	1154.8	1191.7	1253.3	1226.2	1130.1	1063.7	1083.4
65°	1233.6	1115.4	1088.3	1046.4	1021.8	1012.0	1058.7	1071.1	1007.0	935.6	930.7
67.5°	1036.6	1036.6	1014.4	999.7	965.2	923.3	893.8	854.4	844.5	824.8	800.2
70°	943.0	967.6	960.3	925.8	896.2	849.5	773.1	709.1	647.6	625.4	640.2
72.5°	822.4	847.0	847.0	829.8	790.4	719.0	645.1	571.2	519.5	480.1	475.2
75°	632.8	645.1	674.6	654.9	603.2	558.9	482.6	406.3	357.0	320.1	312.7
77.5°	403.8	423.5	423.5	421.0	384.1	342.2	293.0	238.8	201.9	174.8	167.4
80°	268.4	280.7	290.5	280.7	256.1	224.1	187.1	150.2	123.1	101.0	96.0
82.5°	197.0	211.7	219.1	209.3	184.7	160.0	133.0	105.9	78.8	61.6	56.6
85°	76.3	78.8	88.6	105.9	103.4	101.0	81.3	59.1	44.3	32.0	29.5
87.5°	19.7	17.2	19.7	19.7	17.2	14.8	14.8	14.8	14.8	7.4	9.8
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)