

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P642449

Luminaire Tested: GWS-SA6C-830-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-830-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18805.8 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

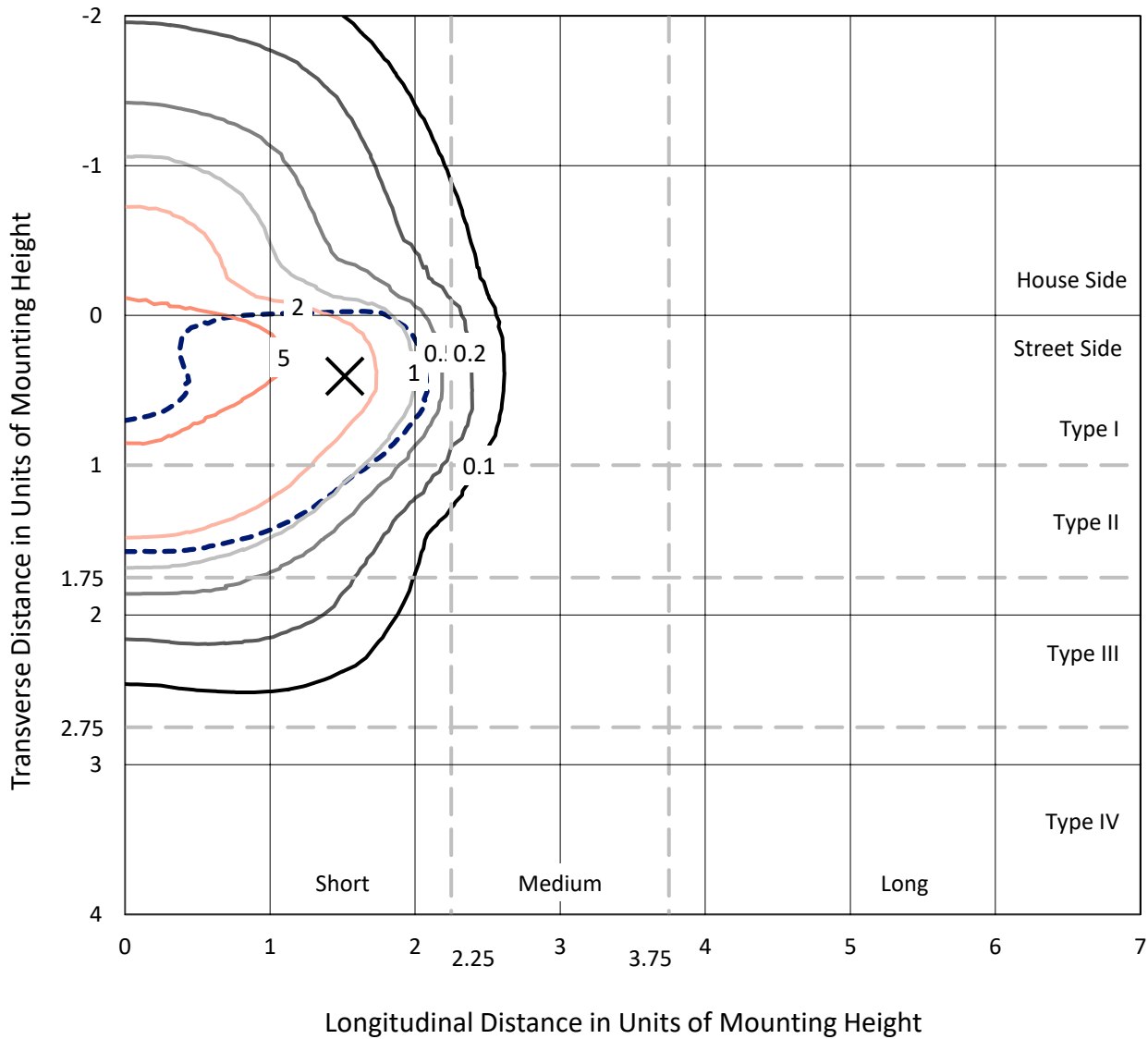
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

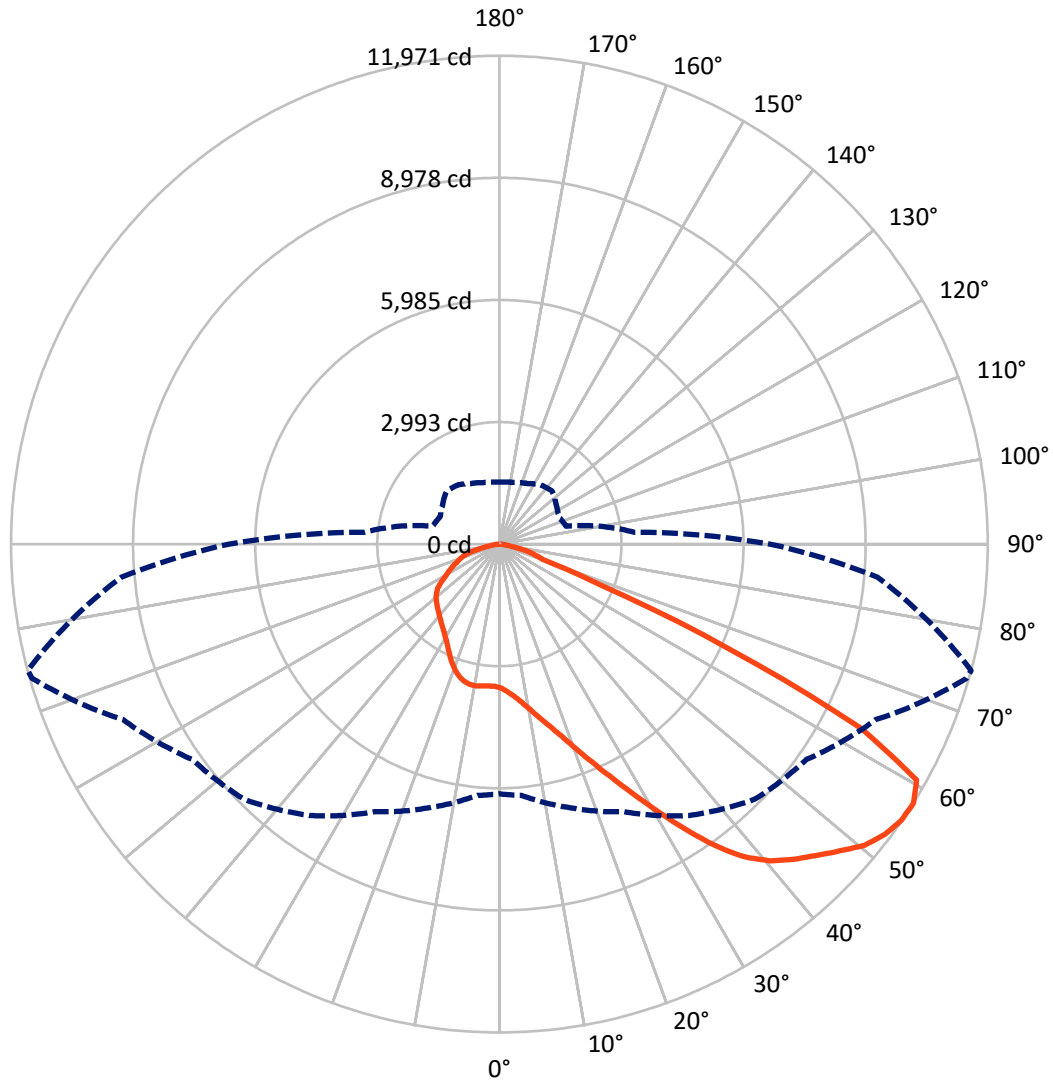
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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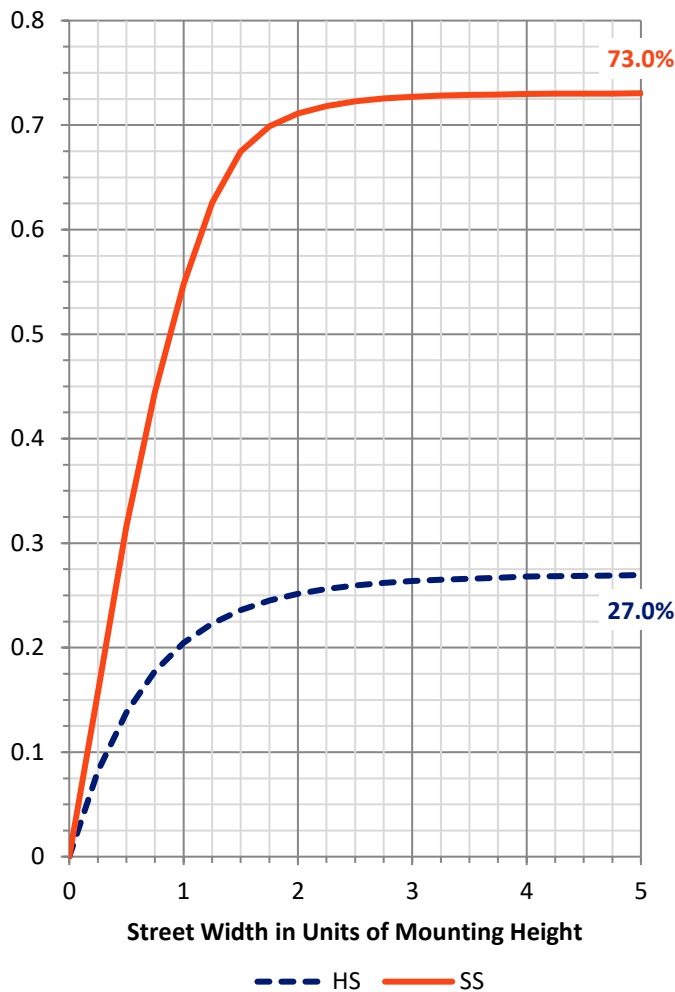
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5087.4	0.0	5087.4
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	13718.4	0.0	13718.4
	% Fixture	72.9	0.0	72.9
Total	Lumens	18805.8	0.0	18805.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.4	1.9
10°-20°	1122.1	6.0
20°-30°	1990.0	10.6
30°-40°	3046.3	16.2
40°-50°	4241.7	22.6
50°-60°	4860.2	25.8
60°-70°	2497.2	13.3
70°-80°	628.7	3.3
80°-90°	67.2	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°	18805.8	100.0
0°-180°	18805.8	100.0

Coefficient of Utilization



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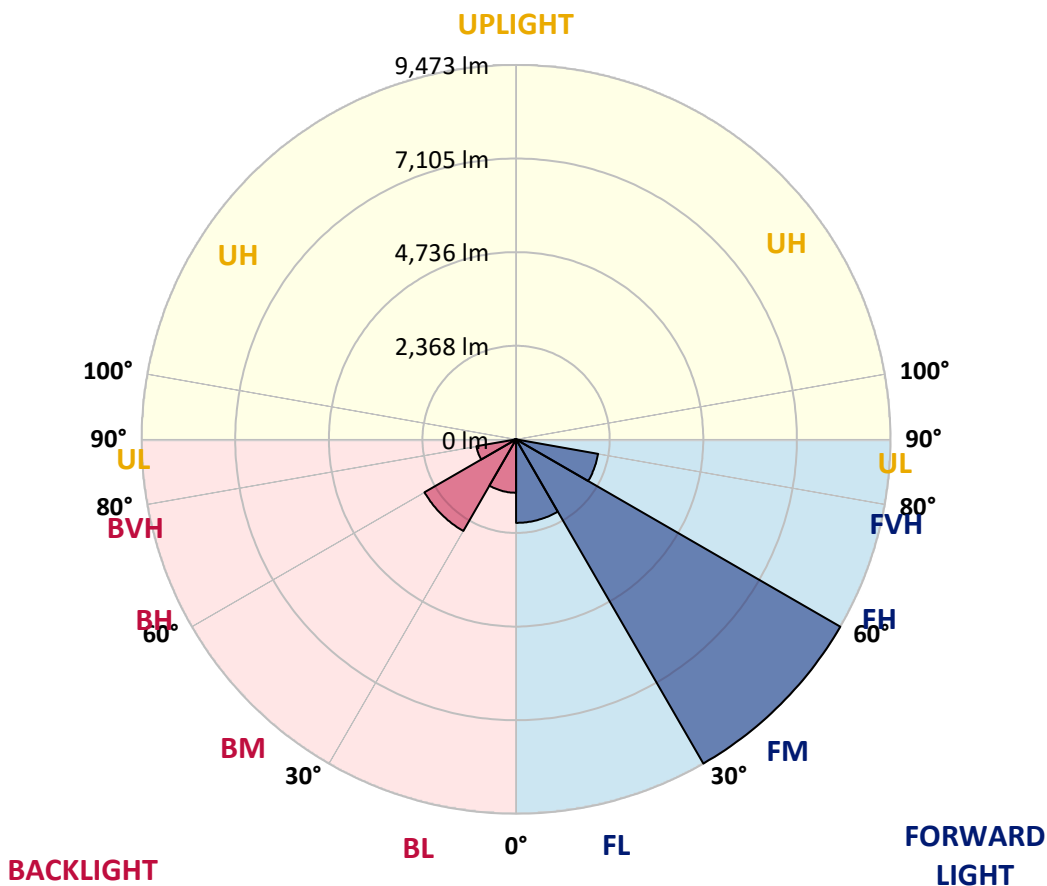
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2112.9	11.2			
FM (30°-60°)	9472.7	50.4			
FH (60°-80°)	2107.9	11.2			G2/5000
FVH (80°-90°)	24.9	0.1			G1/100
BL (0°-30°)	1351.5	7.2	B3/2500		
BM (30°-60°)	2675.5	14.2	B3/5000		
BH (60°-80°)	1018.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	42.3	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9
2.5°	3783.8	3793.5	3783.8	3800.0	3767.7	3753.1	3717.5	3664.2	3622.1	3615.7	3568.8
5°	4078.1	4099.2	4086.2	4079.7	4036.1	4003.7	3950.4	3843.7	3756.3	3743.4	3651.2
7.5°	4267.3	4281.9	4281.9	4286.7	4270.6	4233.4	4176.8	4050.6	3927.7	3908.3	3769.3
10°	4330.4	4341.7	4362.7	4403.2	4435.5	4446.8	4409.6	4288.3	4138.0	4118.6	3924.5
12.5°	4344.9	4357.9	4390.2	4464.6	4553.5	4634.4	4640.9	4551.9	4383.7	4362.7	4104.0
15°	4372.4	4385.4	4429.0	4521.2	4652.2	4807.4	4902.8	4841.4	4655.4	4632.8	4307.7
17.5°	4369.2	4383.7	4448.4	4571.3	4747.6	4972.3	5156.7	5182.6	4990.1	4951.3	4539.0
20°	4361.1	4374.0	4443.6	4594.0	4812.3	5121.1	5454.2	5588.4	5381.5	5345.9	4809.0
22.5°	4425.8	4440.3	4493.7	4618.2	4846.2	5235.9	5729.1	6052.5	5845.5	5795.4	5119.5
25°	4571.3	4592.3	4624.7	4710.4	4907.7	5337.8	6010.5	6578.0	6366.2	6306.4	5457.5
27.5°	4796.1	4822.0	4867.2	4907.7	5045.1	5467.2	6290.2	7166.6	6954.8	6891.7	5814.8
30°	5071.0	5104.9	5163.2	5190.6	5284.4	5658.0	6594.2	7773.0	7650.1	7562.8	6217.5
32.5°	5451.0	5497.9	5552.9	5560.9	5617.5	5947.4	6895.0	8374.6	8372.9	8311.5	6675.1
35°	5945.8	5995.9	6007.2	6018.6	6046.0	6345.2	7258.8	8922.7	9134.6	9063.4	7173.1
37.5°	6485.9	6558.6	6576.4	6526.3	6565.1	6823.8	7667.9	9362.6	9797.5	9721.5	7655.0
40°	7063.2	7092.3	7140.8	7061.5	7110.0	7372.0	8068.9	9643.9	10292.3	10211.5	8035.0
42.5°	7477.1	7530.5	7603.2	7574.1	7601.6	7840.9	8350.3	9779.8	10644.9	10564.0	8308.3
45°	7926.6	7942.8	7989.7	7983.2	7999.4	8222.6	8552.4	9839.6	10960.2	10887.4	8541.1
47.5°	8318.0	8342.2	8372.9	8337.4	8301.8	8447.3	8717.4	9891.3	11324.0	11236.7	8785.3
50°	8694.7	8715.8	8752.9	8649.5	8516.9	8554.0	8798.2	9962.5	11665.2	11603.8	8977.7
52.5°	8764.3	8786.9	8961.5	8982.6	8812.8	8681.8	8940.5	10119.3	11865.7	11826.9	9047.2
55°	7889.5	7929.9	8277.5	8676.9	9095.8	9053.7	9168.5	10201.8	11944.9	11954.6	9171.8
57.5°	6123.7	6181.9	6689.6	7237.8	8119.1	8848.3	9197.6	10180.8	11917.5	11970.8	9299.5
60°	4016.7	4050.6	4652.2	5266.6	6180.3	7189.3	8232.3	9802.4	11673.3	11749.3	9267.2
62.5°	2425.5	2464.3	2947.8	3413.5	3952.0	4626.3	5583.6	7878.1	9784.6	9954.4	7422.1
65°	1693.0	1744.8	2168.4	2551.7	2737.6	2598.6	2828.2	4399.9	6096.2	6167.3	4535.7
67.5°	1227.3	1262.9	1610.6	2066.6	2271.9	1835.3	1398.7	1948.5	2655.2	2681.0	1870.9
70°	803.7	844.1	1159.4	1573.4	1854.7	1487.7	1046.2	1054.3	1117.4	1130.3	1086.6
72.5°	441.4	465.7	716.3	1044.6	1096.3	889.4	816.6	876.4	920.1	920.1	931.4
75°	228.0	249.0	292.7	344.4	415.6	486.7	588.6	677.5	724.4	727.7	722.8
77.5°	116.4	124.5	156.9	169.8	186.0	216.7	281.4	360.6	402.6	418.8	415.6
80°	55.0	58.2	66.3	77.6	95.4	121.3	152.0	181.1	207.0	210.2	228.0
82.5°	29.1	32.3	35.6	42.0	51.7	64.7	88.9	106.7	122.9	126.1	140.7
85°	11.3	12.9	14.6	16.2	22.6	27.5	37.2	50.1	61.4	61.4	72.8
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	6.5	8.1	11.3	11.3	19.4
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°	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9	3521.9
2.5°	3557.4	3510.6	3489.5	3455.6	3428.1	3397.4	3373.1	3355.3	3344.0	3337.5	3331.1
5°	3615.7	3544.5	3487.9	3420.0	3373.1	3327.8	3290.6	3264.8	3251.8	3242.1	3235.7
7.5°	3706.2	3610.8	3504.1	3399.0	3316.5	3243.7	3196.9	3169.4	3151.6	3145.1	3140.3
10°	3830.7	3698.1	3521.9	3355.3	3232.4	3153.2	3120.9	3107.9	3109.5	3106.3	3104.7
12.5°	3971.4	3790.3	3517.0	3277.7	3141.9	3095.0	3096.6	3117.6	3141.9	3148.3	3150.0
15°	4123.4	3880.9	3470.1	3177.4	3070.7	3075.6	3117.6	3167.7	3213.0	3230.8	3234.0
17.5°	4288.3	3956.9	3384.4	3067.5	3012.5	3064.3	3141.9	3224.3	3290.6	3319.7	3327.8
20°	4472.7	4021.5	3263.2	2959.2	2957.5	3043.2	3156.4	3264.8	3348.9	3387.7	3394.1
22.5°	4668.3	4062.0	3114.4	2858.9	2900.9	3015.7	3145.1	3258.3	3347.2	3386.0	3394.1
25°	4865.6	4074.9	2951.1	2766.7	2842.7	2972.1	3090.1	3180.7	3264.8	3298.7	3305.2
27.5°	5050.0	4037.7	2795.8	2687.5	2789.4	2907.4	2986.6	3035.2	3093.4	3119.2	3124.1
30°	5237.5	3963.3	2664.9	2624.4	2729.5	2818.5	2854.0	2857.3	2879.9	2879.9	2883.2
32.5°	5426.7	3853.4	2550.0	2563.0	2655.2	2713.4	2718.2	2681.0	2653.5	2608.3	2606.6
35°	5645.0	3741.8	2456.3	2493.4	2567.8	2603.4	2588.9	2517.7	2451.4	2377.0	2373.8
37.5°	5847.2	3627.0	2377.0	2422.3	2469.2	2495.1	2461.1	2375.4	2320.4	2244.4	2233.1
40°	6013.7	3523.5	2301.0	2347.9	2370.6	2393.2	2338.2	2268.7	2276.8	2234.7	2233.1
42.5°	6110.7	3423.2	2229.9	2265.4	2280.0	2296.2	2247.7	2195.9	2239.6	2207.2	2208.9
45°	6181.9	3335.9	2165.2	2178.1	2213.7	2238.0	2192.7	2134.5	2144.2	2019.7	1990.6
47.5°	6262.7	3287.4	2103.7	2090.8	2153.9	2195.9	2126.4	2042.3	1984.1	1861.2	1849.9
50°	6348.4	3269.6	2039.1	2003.5	2079.5	2119.9	2039.1	1934.0	1858.0	1791.7	1785.2
52.5°	6377.5	3268.0	1958.2	1898.4	1974.4	2031.0	1963.1	1856.3	1765.8	1701.1	1697.9
55°	6492.3	3314.9	1854.7	1754.5	1825.6	1942.0	1891.9	1738.3	1665.5	1636.4	1633.2
57.5°	6626.6	3323.0	1691.4	1597.6	1696.3	1833.7	1770.6	1638.0	1558.8	1523.2	1520.0
60°	6571.6	3124.1	1516.8	1478.0	1586.3	1731.8	1673.6	1558.8	1466.6	1432.7	1429.4
62.5°	5007.9	2205.6	1389.0	1374.5	1468.3	1584.7	1573.4	1453.7	1366.4	1342.1	1338.9
65°	3012.5	1549.1	1266.1	1264.5	1330.8	1442.4	1456.9	1359.9	1267.7	1233.8	1233.8
67.5°	1489.3	1185.3	1127.1	1119.0	1161.0	1240.3	1301.7	1222.5	1144.9	1112.5	1107.7
70°	1052.7	1044.6	1025.2	1002.6	1010.6	1043.0	1068.9	1002.6	920.1	887.7	881.3
72.5°	910.4	912.0	899.1	881.3	874.8	852.2	829.5	781.0	730.9	696.9	700.2
75°	706.6	709.9	718.0	711.5	693.7	669.4	645.2	583.7	543.3	511.0	504.5
77.5°	412.3	428.5	454.4	447.9	451.1	417.2	407.5	347.7	310.5	287.8	283.0
80°	232.9	242.6	253.9	262.0	252.3	237.7	216.7	184.3	173.0	156.9	153.6
82.5°	140.7	150.4	155.2	161.7	158.5	139.1	122.9	101.9	92.2	84.1	82.5
85°	71.1	77.6	82.5	85.7	76.0	63.1	56.6	45.3	38.8	34.0	34.0
87.5°	17.8	19.4	22.6	19.4	17.8	8.1	6.5	1.6	0.0	0.0	0.0
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)