

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: P640146

Luminaire Tested: GWS-SA5D-730-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-730-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16892.5 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

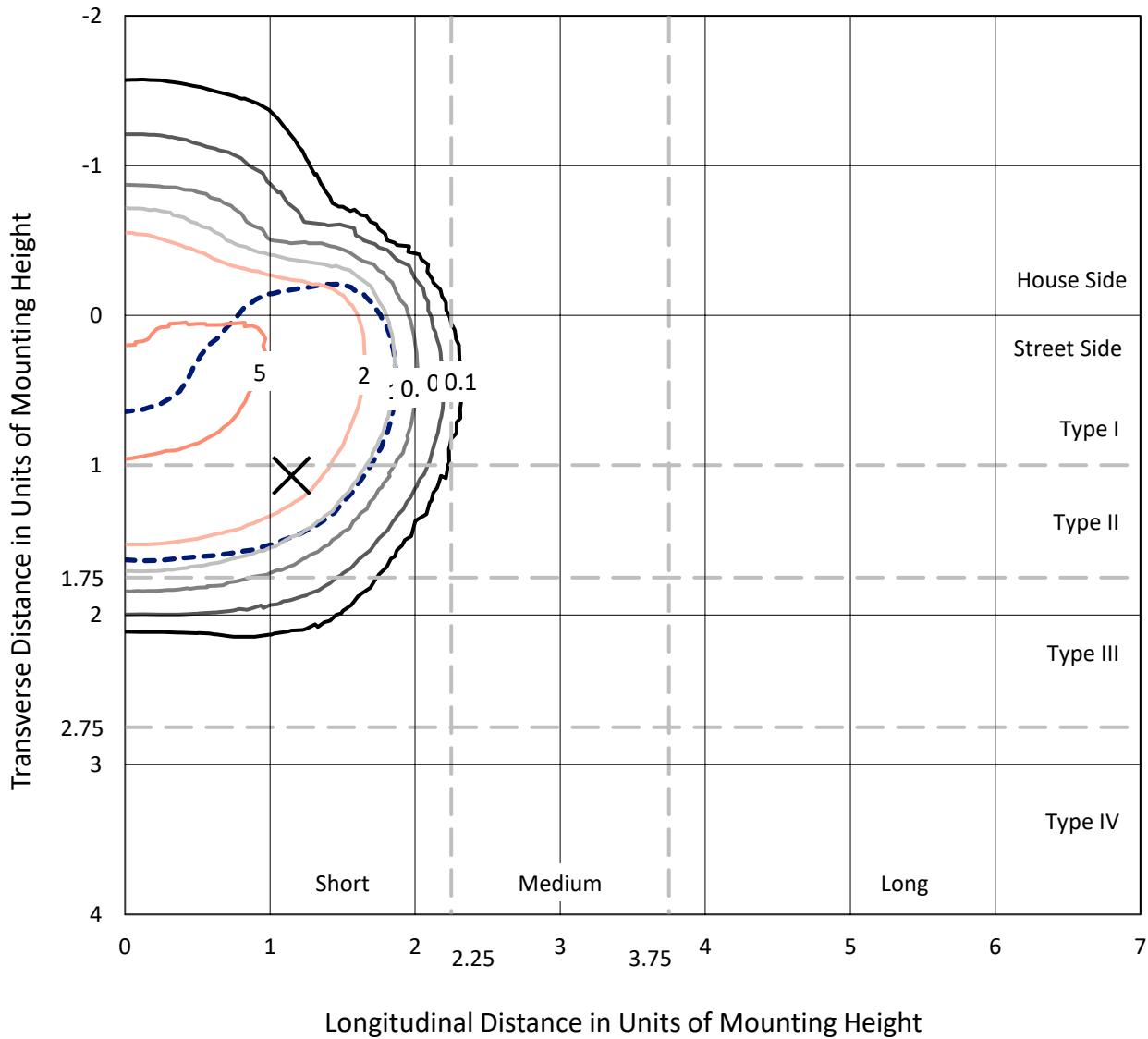
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

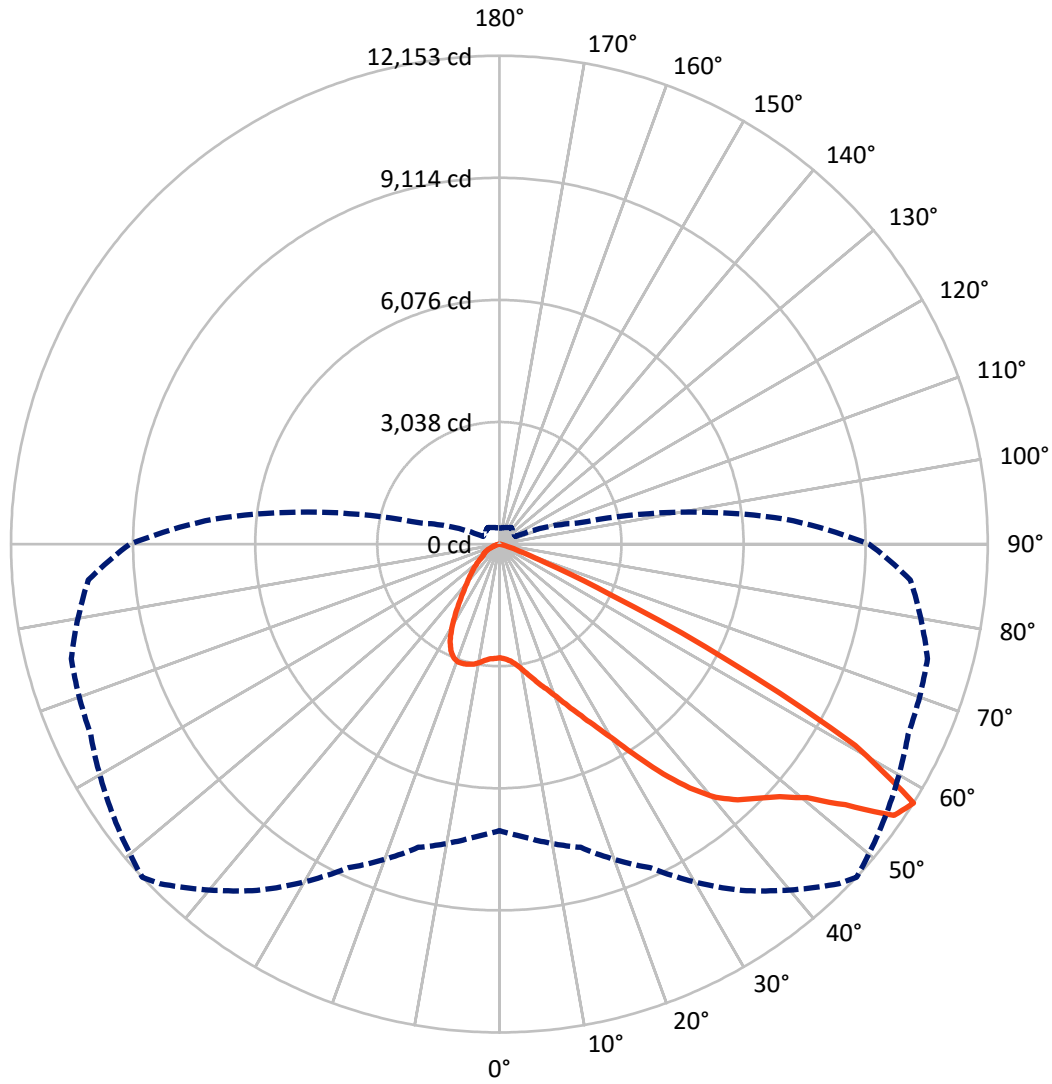
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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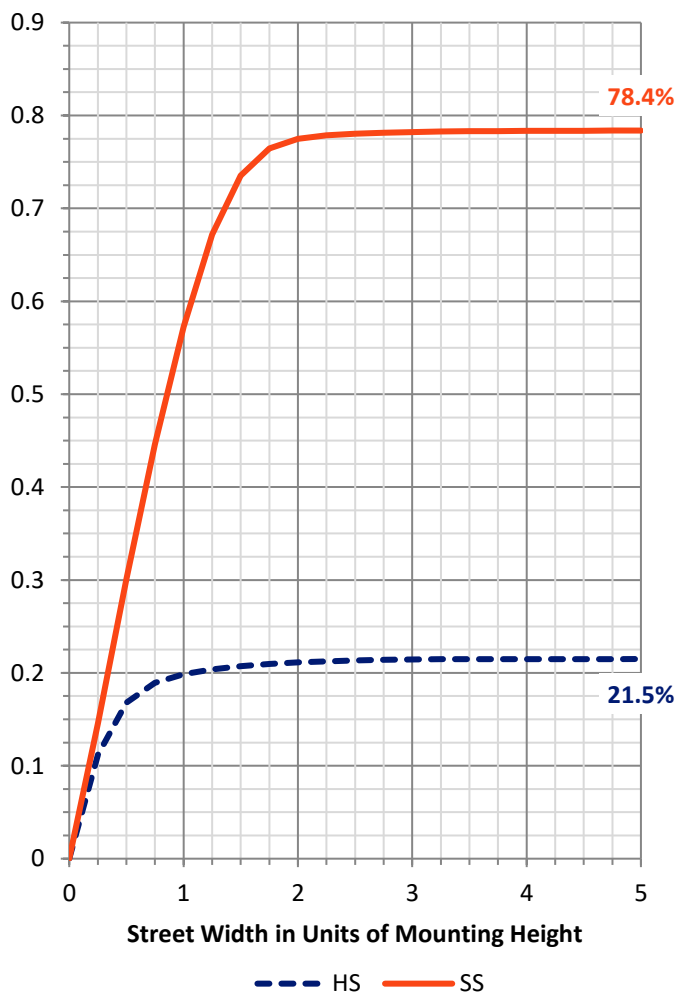
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3664.8	0.0	3664.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	13227.7	0.0	13227.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	16892.5	0.0	16892.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.3	1.7
10°-20°	949.3	5.6
20°-30°	1762.6	10.4
30°-40°	2821.6	16.7
40°-50°	4124.5	24.4
50°-60°	5090.4	30.1
60°-70°	1700.9	10.1
70°-80°	158.5	0.9
80°-90°	3.3	0.0
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°	16892.5	100.0
0°-180°	16892.5	100.0

Coefficient of Utilization



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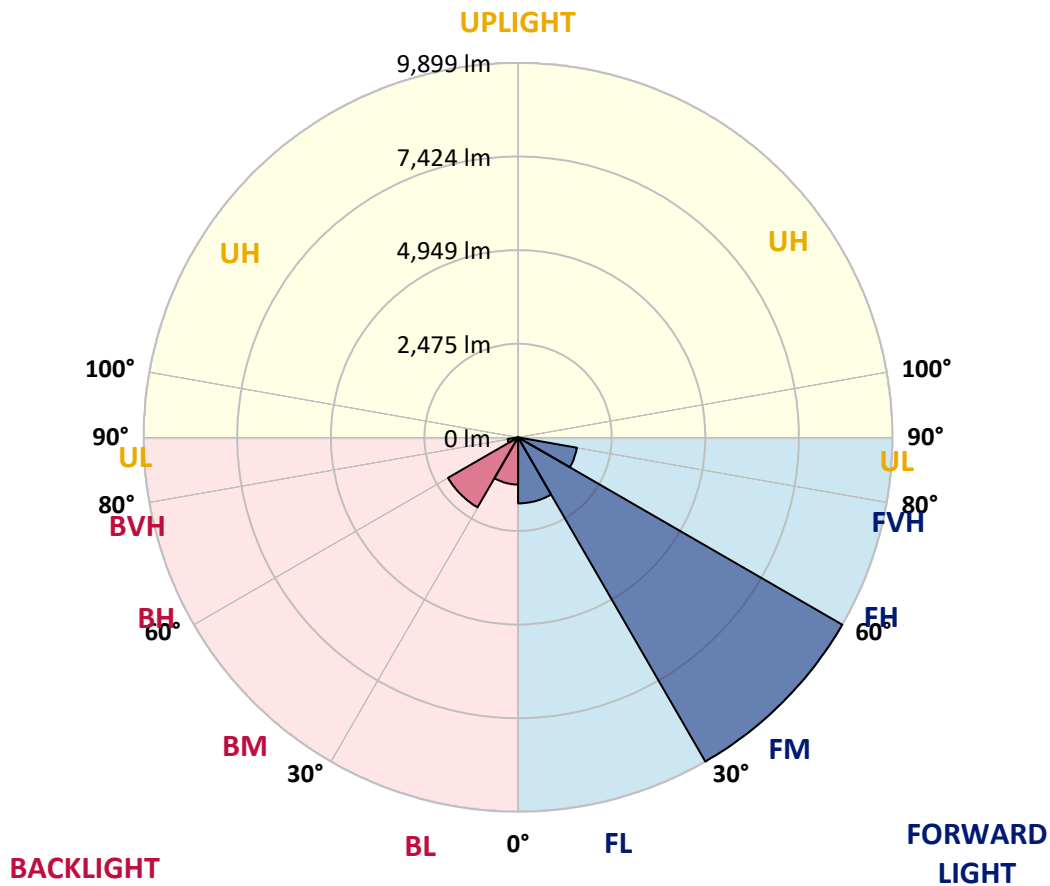
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1745.8	10.3			
FM (30°-60°)	9898.9	58.6			
FH (60°-80°)	1580.8	9.4			G1/1800
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	1247.4	7.4	B3/2500		
BM (30°-60°)	2137.7	12.7	B2/2500		
BH (60°-80°)	278.6	1.6	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2827.8	2827.8	2827.8	2827.8	2827.8	2827.8	2827.8	2827.8	2827.8	2827.8	2827.8
2.5°	2857.2	2855.3	2853.3	2865.1	2861.2	2859.2	2863.1	2863.1	2863.1	2851.4	2827.8
5°	2925.9	2925.9	2923.9	2935.7	2925.9	2920.0	2922.0	2922.0	2914.1	2892.5	2863.1
7.5°	3033.7	3029.8	3025.9	3037.7	3027.8	3025.9	3029.8	3018.0	3004.3	2969.0	2927.8
10°	3188.7	3188.7	3182.8	3194.5	3186.7	3182.8	3182.8	3174.9	3149.4	3094.5	3033.7
12.5°	3402.4	3392.6	3378.9	3369.1	3365.1	3363.2	3365.1	3353.4	3325.9	3255.3	3171.0
15°	3635.8	3627.9	3606.4	3590.7	3569.1	3565.2	3576.9	3567.1	3539.7	3443.6	3324.0
17.5°	3929.9	3939.7	3884.8	3851.5	3788.7	3784.8	3788.7	3804.4	3784.8	3661.3	3486.7
20°	4180.9	4188.8	4147.6	4124.1	4067.2	4041.7	4049.6	4075.0	4053.5	3908.4	3665.2
22.5°	4449.6	4459.4	4416.3	4367.2	4341.7	4341.7	4371.2	4406.5	4377.0	4186.8	3869.1
25°	4771.2	4779.1	4743.8	4679.0	4633.9	4690.8	4734.0	4828.1	4779.1	4520.2	4110.3
27.5°	5139.9	5141.9	5090.9	5024.2	5000.7	5106.6	5149.7	5294.8	5275.2	4894.8	4365.3
30°	5534.1	5536.0	5524.3	5479.2	5457.6	5596.8	5655.6	5865.5	5851.7	5359.5	4712.4
32.5°	5943.9	5943.9	5965.5	5961.6	5987.1	6214.5	6308.7	6547.9	6534.2	5928.2	5143.8
35°	6355.7	6357.7	6395.0	6489.1	6595.0	6897.0	7020.5	7310.8	7279.4	6608.7	5694.9
37.5°	6824.4	6804.8	6855.8	6997.0	7232.3	7581.4	7699.1	7975.6	7940.3	7304.9	6414.6
40°	7389.2	7353.9	7353.9	7518.6	7785.3	8187.4	8287.4	8424.6	8305.0	7867.7	7120.5
42.5°	8012.8	7979.5	7936.3	8081.5	8305.0	8618.8	8701.1	8663.9	8565.8	8399.1	7924.6
45°	8644.3	8593.3	8622.7	8710.9	8840.4	8989.4	9020.8	8848.2	8803.1	8850.2	8589.4
47.5°	9124.7	9089.4	9162.0	9285.5	9391.4	9413.0	9391.4	9152.2	9148.3	9314.9	9050.2
50°	9285.5	9289.5	9489.5	9760.1	9930.7	9948.4	9919.0	9644.4	9607.1	9656.2	9299.3
52.5°	9301.2	9316.9	9609.1	10124.9	10589.6	10801.4	10777.9	10481.8	10117.0	10064.1	9675.8
55°	8922.7	9014.9	9422.8	10175.8	11164.2	11840.8	11919.2	11352.5	10811.2	10766.1	10485.7
57.5°	7132.3	7320.6	7812.8	8885.5	10523.0	11948.6	12152.6	11744.7	11221.1	11028.9	10268.0
60°	4263.3	4496.7	4969.3	6285.1	8008.9	9820.9	10171.9	10228.8	9987.6	9432.6	7877.5
62.5°	1829.7	1810.0	2392.5	3400.4	4763.4	6242.0	6400.8	6647.9	6857.8	6277.3	4781.0
65°	627.5	682.4	949.1	1533.5	2384.6	2898.4	3039.6	3261.2	3559.3	2937.6	1751.2
67.5°	388.3	411.8	547.1	906.0	1286.4	1266.8	1204.1	1168.8	1137.4	778.5	480.5
70°	282.4	302.0	384.4	623.6	864.8	607.9	527.5	427.5	474.6	437.3	341.2
72.5°	190.2	205.9	264.7	378.5	443.2	296.1	274.5	311.8	376.5	358.9	278.5
75°	113.7	123.5	151.0	184.3	180.4	153.0	154.9	219.6	288.3	268.7	198.1
77.5°	78.4	82.4	100.0	119.6	88.2	47.1	43.1	60.8	98.1	98.1	66.7
80°	19.6	25.5	25.5	15.7	13.7	11.8	11.8	17.6	27.5	19.6	9.8
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9
85°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	3.9	3.9	3.9
87.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.9	3.9
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°	2827.8	2827.8	2827.8	2827.8	2827.8	2827.8	2827.8	2827.8	2827.8	2827.8	2827.8
2.5°	2841.5	2818.0	2833.7	2829.8	2841.5	2845.5	2827.8	2823.9	2825.9	2802.3	2794.5
5°	2869.0	2841.5	2849.4	2841.5	2855.3	2867.0	2861.2	2869.0	2878.8	2861.2	2853.3
7.5°	2927.8	2900.4	2898.4	2886.7	2906.3	2914.1	2912.1	2933.7	2953.3	2941.6	2929.8
10°	3029.8	2992.6	2988.6	2978.8	2984.7	2990.6	2969.0	2972.9	2990.6	2976.9	2971.0
12.5°	3155.3	3110.2	3100.4	3076.9	3076.9	3047.5	3000.4	2990.6	3004.3	2994.5	2984.7
15°	3290.6	3229.8	3214.1	3173.0	3133.7	3078.8	3029.8	3018.0	3027.8	3016.1	3008.2
17.5°	3441.6	3373.0	3322.0	3249.4	3163.2	3098.4	3043.5	3018.0	3002.4	2978.8	2976.9
20°	3590.7	3500.5	3414.2	3298.5	3184.7	3086.7	2996.5	2929.8	2872.9	2837.6	2823.9
22.5°	3763.2	3629.9	3490.7	3327.9	3165.1	3016.1	2857.2	2743.5	2645.4	2612.1	2596.4
25°	3947.6	3775.0	3567.1	3355.3	3098.4	2859.2	2643.5	2474.8	2345.4	2302.3	2284.6
27.5°	4151.5	3914.2	3645.6	3349.5	2961.2	2635.6	2349.3	2139.5	2012.0	1972.8	1986.5
30°	4410.4	4094.7	3743.6	3288.7	2755.3	2321.9	1986.5	1810.0	1714.0	1676.7	1678.7
32.5°	4755.5	4353.5	3886.8	3159.2	2490.5	1965.0	1670.8	1541.4	1476.7	1427.6	1423.7
35°	5249.7	4747.7	4020.1	2951.4	2168.9	1647.3	1433.5	1331.5	1241.3	1184.5	1194.3
37.5°	5841.9	5243.8	4092.7	2670.9	1808.1	1400.2	1255.1	1151.1	1049.2	964.8	974.6
40°	6544.0	5892.9	4086.8	2302.3	1478.6	1231.5	1106.0	984.4	857.0	780.5	788.3
42.5°	7326.5	6506.7	3959.3	1912.0	1225.7	1094.3	962.9	809.9	686.4	639.3	641.3
45°	8005.0	7004.8	3735.8	1508.0	1031.5	960.9	813.8	656.9	602.0	568.7	566.7
47.5°	8507.0	7369.6	3416.1	1186.4	874.6	839.3	668.7	588.3	545.2	517.7	513.8
50°	8787.4	7497.1	3063.1	929.5	739.3	711.9	598.1	533.4	504.0	486.3	482.4
52.5°	9163.9	7650.0	2810.2	733.4	619.7	582.4	551.1	496.1	476.5	462.8	456.9
55°	9760.1	7946.1	2590.5	582.4	515.8	507.9	519.7	474.6	462.8	441.2	433.4
57.5°	9199.2	7138.2	2012.0	451.0	435.4	464.8	502.0	453.0	423.6	404.0	396.1
60°	6473.4	4745.7	1011.9	362.8	388.3	435.4	472.6	409.9	380.4	384.4	380.4
62.5°	3569.1	2374.8	455.0	304.0	337.3	384.4	404.0	354.9	335.3	368.7	374.6
65°	1166.8	807.9	262.8	235.3	266.7	313.8	349.1	337.3	333.4	372.6	384.4
67.5°	358.9	266.7	178.5	168.6	184.3	231.4	294.2	364.8	392.2	404.0	409.9
70°	268.7	209.8	153.0	143.2	151.0	176.5	249.1	304.0	286.3	288.3	284.4
72.5°	215.7	166.7	131.4	125.5	125.5	121.6	131.4	164.7	186.3	196.1	196.1
75°	151.0	117.7	100.0	92.2	72.6	58.8	52.9	52.9	47.1	45.1	43.1
77.5°	51.0	43.1	39.2	31.4	21.6	17.6	15.7	13.7	9.8	5.9	3.9
80°	7.8	5.9	3.9	3.9	3.9	2.0	2.0	2.0	0.0	0.0	0.0
82.5°	3.9	3.9	3.9	3.9	3.9	2.0	2.0	0.0	0.0	0.0	0.0
85°	3.9	3.9	3.9	3.9	3.9	2.0	2.0	0.0	0.0	0.0	0.0
87.5°	3.9	3.9	3.9	3.9	2.0	2.0	2.0	0.0	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)