

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: P640531

Luminaire Tested: GWS-SA5E-722-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640531
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-SA5E-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17075.6 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

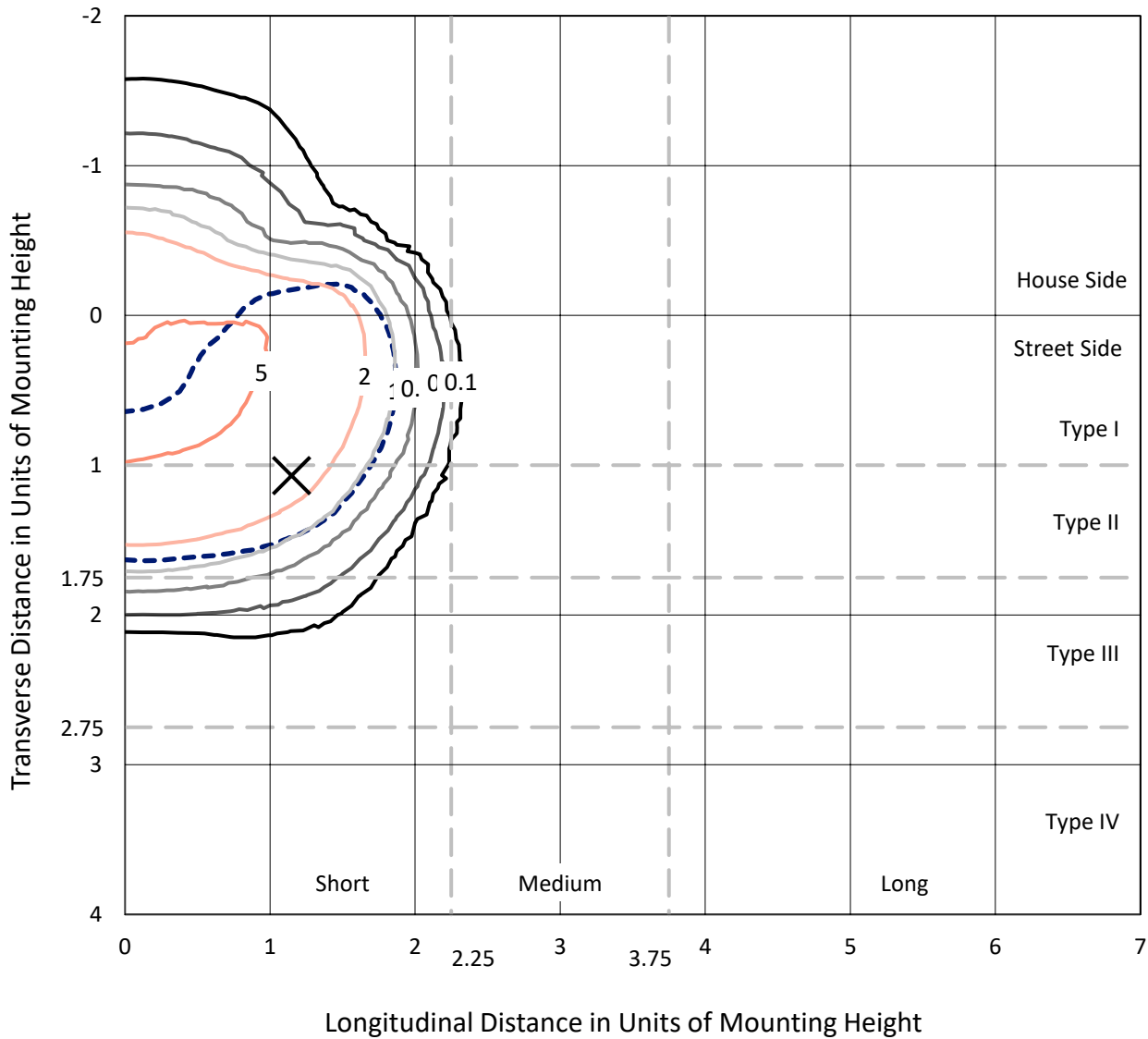
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

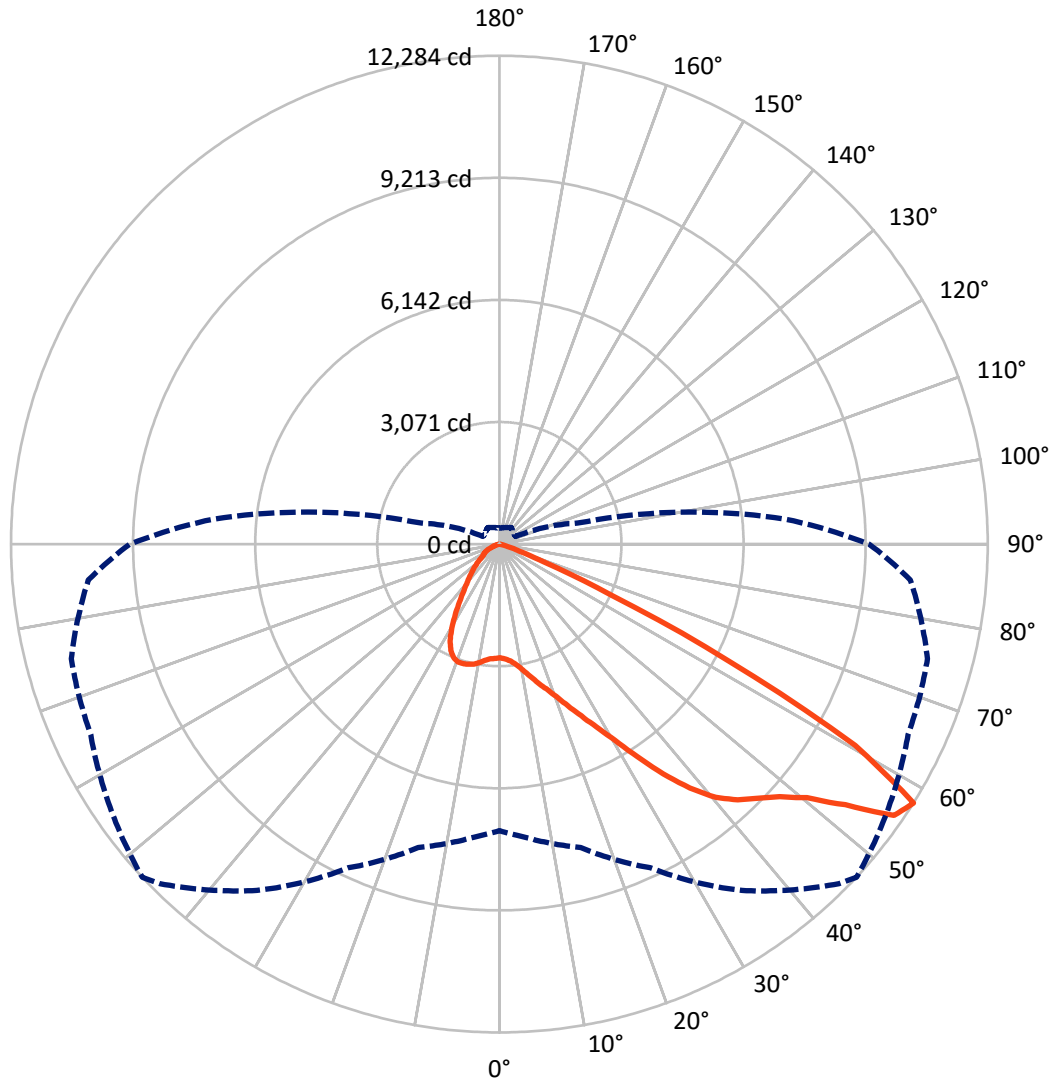
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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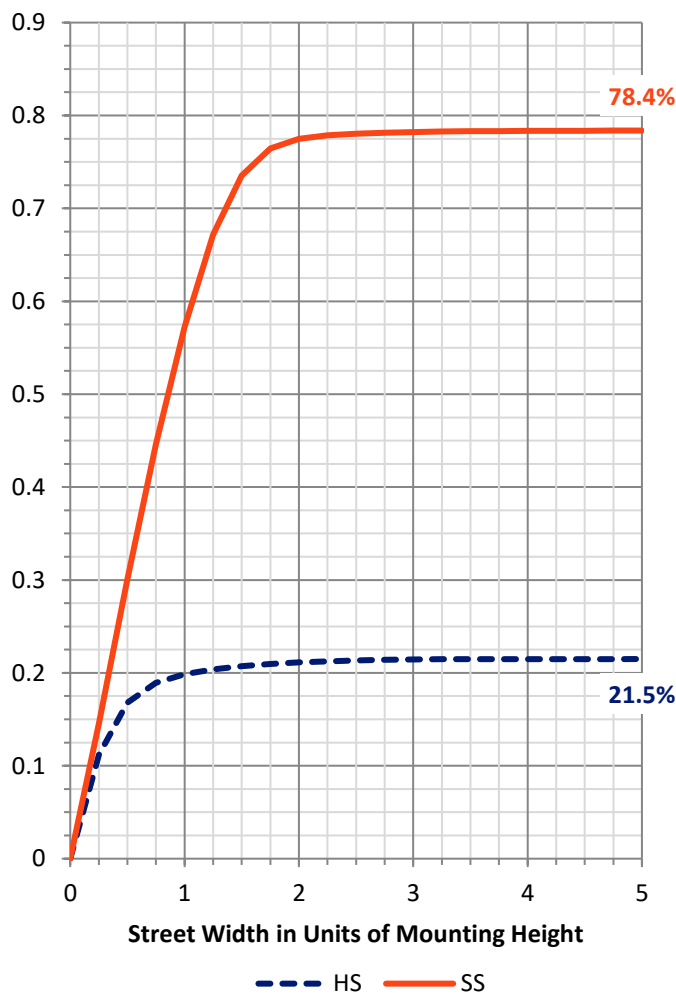
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3704.5	0.0	3704.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	13371.1	0.0	13371.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	17075.6	0.0	17075.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.4	1.7
10°-20°	959.6	5.6
20°-30°	1781.7	10.4
30°-40°	2852.2	16.7
40°-50°	4169.3	24.4
50°-60°	5145.6	30.1
60°-70°	1719.4	10.1
70°-80°	160.2	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°	17075.6	100.0
0°-180°	17075.6	100.0

Coefficient of Utilization



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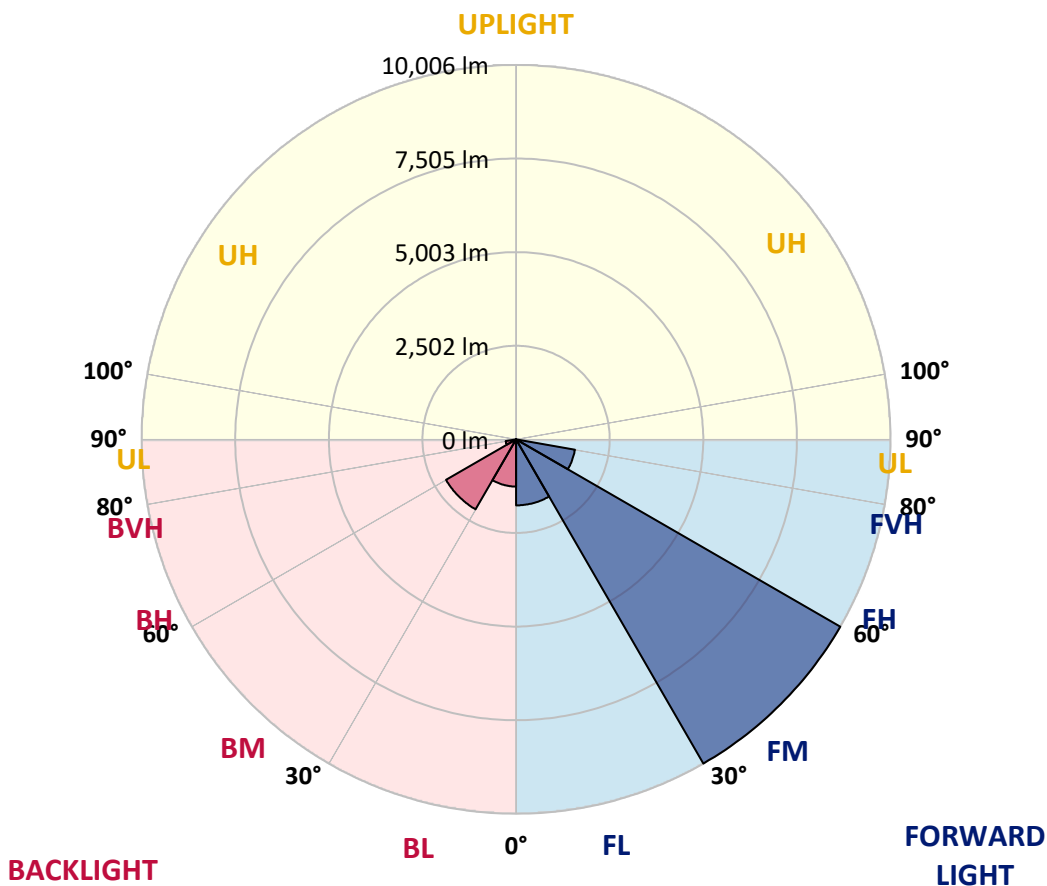
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1764.7	10.3			
FM (30°-60°)	10006.2	58.6			
FH (60°-80°)	1597.9	9.4			G1/1800
FVH (80°-90°)	2.3	0.0			G0/10
BL (0°-30°)	1261.0	7.4	B3/2500		
BM (30°-60°)	2160.9	12.7	B2/2500		
BH (60°-80°)	281.6	1.6	B1/500		G1/500
BVH (80°-90°)	1.1	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°	2858.5	2858.5	2858.5	2858.5	2858.5	2858.5	2858.5	2858.5	2858.5	2858.5	2858.5
2.5°	2888.2	2886.2	2884.2	2896.1	2892.2	2890.2	2894.2	2894.2	2894.2	2882.3	2858.5
5°	2957.6	2957.6	2955.6	2967.5	2957.6	2951.6	2953.6	2953.6	2945.7	2923.9	2894.2
7.5°	3066.6	3062.7	3058.7	3070.6	3060.7	3058.7	3062.7	3050.8	3036.9	3001.2	2959.6
10°	3223.2	3223.2	3217.3	3229.2	3221.2	3217.3	3217.3	3209.3	3183.6	3128.1	3066.6
12.5°	3439.3	3429.4	3415.5	3405.6	3401.6	3399.6	3401.6	3389.7	3362.0	3290.6	3205.4
15°	3675.2	3667.3	3645.4	3629.6	3607.8	3603.8	3615.7	3605.8	3578.0	3480.9	3360.0
17.5°	3972.5	3982.4	3926.9	3893.2	3829.8	3825.8	3829.8	3845.7	3825.8	3701.0	3524.5
20°	4226.3	4234.2	4192.6	4168.8	4111.3	4085.5	4093.4	4119.2	4097.4	3950.7	3704.9
22.5°	4497.8	4507.7	4464.1	4414.6	4388.8	4388.8	4418.5	4454.2	4424.5	4232.2	3911.1
25°	4822.9	4830.9	4795.2	4729.8	4684.2	4741.7	4785.3	4880.4	4830.9	4569.2	4154.9
27.5°	5195.6	5197.6	5146.0	5078.6	5054.9	5161.9	5205.5	5352.2	5332.4	4947.8	4412.6
30°	5594.0	5596.0	5584.1	5538.5	5516.7	5657.5	5716.9	5929.1	5915.2	5417.6	4763.5
32.5°	6008.3	6008.3	6030.2	6026.2	6052.0	6281.9	6377.1	6618.9	6605.0	5992.5	5199.6
35°	6424.6	6426.6	6464.3	6559.4	6666.5	6971.7	7096.6	7390.0	7358.3	6680.3	5756.6
37.5°	6898.4	6878.6	6930.1	7072.8	7310.7	7663.6	7782.5	8062.0	8026.3	7384.1	6484.1
40°	7469.3	7433.6	7433.6	7600.1	7869.7	8276.1	8377.2	8516.0	8395.0	7953.0	7197.7
42.5°	8099.7	8066.0	8022.4	8169.1	8395.0	8712.2	8795.5	8757.8	8658.7	8490.2	8010.5
45°	8738.0	8686.4	8716.2	8805.4	8936.2	9086.9	9118.6	8944.1	8898.5	8946.1	8682.5
47.5°	9223.6	9188.0	9261.3	9386.2	9493.2	9515.0	9493.2	9251.4	9247.4	9415.9	9148.3
50°	9386.2	9390.1	9592.3	9865.9	10038.4	10056.2	10026.5	9748.9	9711.3	9760.8	9400.1
52.5°	9402.0	9417.9	9713.3	10234.6	10704.4	10918.5	10894.7	10595.4	10226.7	10173.2	9780.7
55°	9019.5	9112.6	9524.9	10286.1	11285.2	11969.1	12048.4	11475.5	10928.4	10882.8	10599.3
57.5°	7209.6	7399.9	7897.5	8981.8	10637.0	12078.1	12284.3	11872.0	11342.7	11148.4	10379.3
60°	4309.5	4545.4	5023.1	6353.3	8095.7	9927.3	10282.2	10339.7	10095.8	9534.9	7962.9
62.5°	1849.5	1829.7	2418.4	3437.3	4815.0	6309.7	6470.2	6720.0	6932.1	6345.3	4832.8
65°	634.3	689.8	959.4	1550.2	2410.5	2929.8	3072.6	3296.6	3597.9	2969.5	1770.2
67.5°	392.5	416.3	553.1	915.8	1300.4	1280.6	1217.1	1181.4	1149.7	787.0	485.7
70°	285.5	305.3	388.5	630.4	874.2	614.5	533.2	432.1	479.7	442.1	344.9
72.5°	192.3	208.1	267.6	382.6	448.0	299.3	277.5	315.2	380.6	362.8	281.5
75°	115.0	124.9	152.6	186.3	182.4	154.6	156.6	222.0	291.4	271.6	200.2
77.5°	79.3	83.3	101.1	120.9	89.2	47.6	43.6	61.5	99.1	99.1	67.4
80°	19.8	25.8	25.8	15.9	13.9	11.9	11.9	17.8	27.8	19.8	9.9
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0	4.0	4.0
85°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0	4.0
87.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0
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°	2858.5	2858.5	2858.5	2858.5	2858.5	2858.5	2858.5	2858.5	2858.5	2858.5	2858.5
2.5°	2872.3	2848.6	2864.4	2860.5	2872.3	2876.3	2858.5	2854.5	2856.5	2832.7	2824.8
5°	2900.1	2872.3	2880.3	2872.3	2886.2	2898.1	2892.2	2900.1	2910.0	2892.2	2884.2
7.5°	2959.6	2931.8	2929.8	2917.9	2937.8	2945.7	2943.7	2965.5	2985.3	2973.4	2961.6
10°	3062.7	3025.0	3021.0	3011.1	3017.1	3023.0	3001.2	3005.2	3023.0	3009.1	3003.2
12.5°	3189.5	3143.9	3134.0	3110.2	3110.2	3080.5	3032.9	3023.0	3036.9	3027.0	3017.1
15°	3326.3	3264.8	3249.0	3207.4	3167.7	3112.2	3062.7	3050.8	3060.7	3048.8	3040.8
17.5°	3478.9	3409.6	3358.0	3284.7	3197.4	3132.0	3076.5	3050.8	3034.9	3011.1	3009.1
20°	3629.6	3538.4	3451.2	3334.2	3219.3	3120.1	3029.0	2961.6	2904.1	2868.4	2854.5
22.5°	3804.0	3669.2	3528.5	3364.0	3199.4	3048.8	2888.2	2773.2	2674.1	2640.4	2624.6
25°	3990.4	3815.9	3605.8	3391.7	3132.0	2890.2	2672.1	2501.7	2370.8	2327.2	2309.4
27.5°	4196.5	3956.7	3685.1	3385.8	2993.3	2664.2	2374.8	2162.7	2033.8	1994.2	2008.1
30°	4458.2	4139.0	3784.2	3324.3	2785.1	2347.0	2008.1	1829.7	1732.5	1694.9	1696.8
32.5°	4807.1	4400.7	3928.9	3193.5	2517.5	1986.3	1688.9	1558.1	1492.7	1443.1	1439.1
35°	5306.6	4799.1	4063.7	2983.4	2192.4	1665.1	1449.1	1346.0	1254.8	1197.3	1207.2
37.5°	5905.3	5300.7	4137.1	2699.9	1827.7	1415.4	1268.7	1163.6	1060.5	975.3	985.2
40°	6614.9	5956.8	4131.1	2327.2	1494.7	1244.9	1118.0	995.1	866.3	789.0	796.9
42.5°	7405.9	6577.3	4002.3	1932.7	1238.9	1106.1	973.3	818.7	693.8	646.2	648.2
45°	8091.7	7080.8	3776.3	1524.4	1042.7	971.3	822.7	664.1	608.6	574.9	572.9
47.5°	8599.2	7449.5	3453.2	1199.3	884.1	848.4	676.0	594.7	551.1	523.3	519.4
50°	8882.7	7578.3	3096.3	939.6	747.3	719.6	604.6	539.2	509.5	491.6	487.6
52.5°	9263.3	7732.9	2840.6	741.4	626.4	588.7	557.0	501.5	481.7	467.8	461.9
55°	9865.9	8032.3	2618.6	588.7	521.3	513.4	525.3	479.7	467.8	446.0	438.1
57.5°	9299.0	7215.6	2033.8	455.9	440.1	469.8	507.5	457.9	428.2	408.4	400.4
60°	6543.6	4797.2	1022.9	366.7	392.5	440.1	477.7	414.3	384.6	388.5	384.6
62.5°	3607.8	2400.6	459.9	307.3	341.0	388.5	408.4	358.8	339.0	372.7	378.6
65°	1179.5	816.7	265.6	237.9	269.6	317.2	352.8	341.0	337.0	376.6	388.5
67.5°	362.8	269.6	180.4	170.5	186.3	233.9	297.3	368.7	396.5	408.4	414.3
70°	271.6	212.1	154.6	144.7	152.6	178.4	251.8	307.3	289.4	291.4	287.4
72.5°	218.1	168.5	132.8	126.9	126.9	122.9	132.8	166.5	188.3	198.2	198.2
75°	152.6	118.9	101.1	93.2	73.3	59.5	53.5	53.5	47.6	45.6	43.6
77.5°	51.5	43.6	39.6	31.7	21.8	17.8	15.9	13.9	9.9	5.9	4.0
80°	7.9	5.9	4.0	4.0	4.0	2.0	2.0	2.0	0.0	0.0	0.0
82.5°	4.0	4.0	4.0	4.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0
85°	4.0	4.0	4.0	4.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0
87.5°	4.0	4.0	4.0	4.0	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)