

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: P637675

Luminaire Tested: GWS-SA4D-730-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-730-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13986.4 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

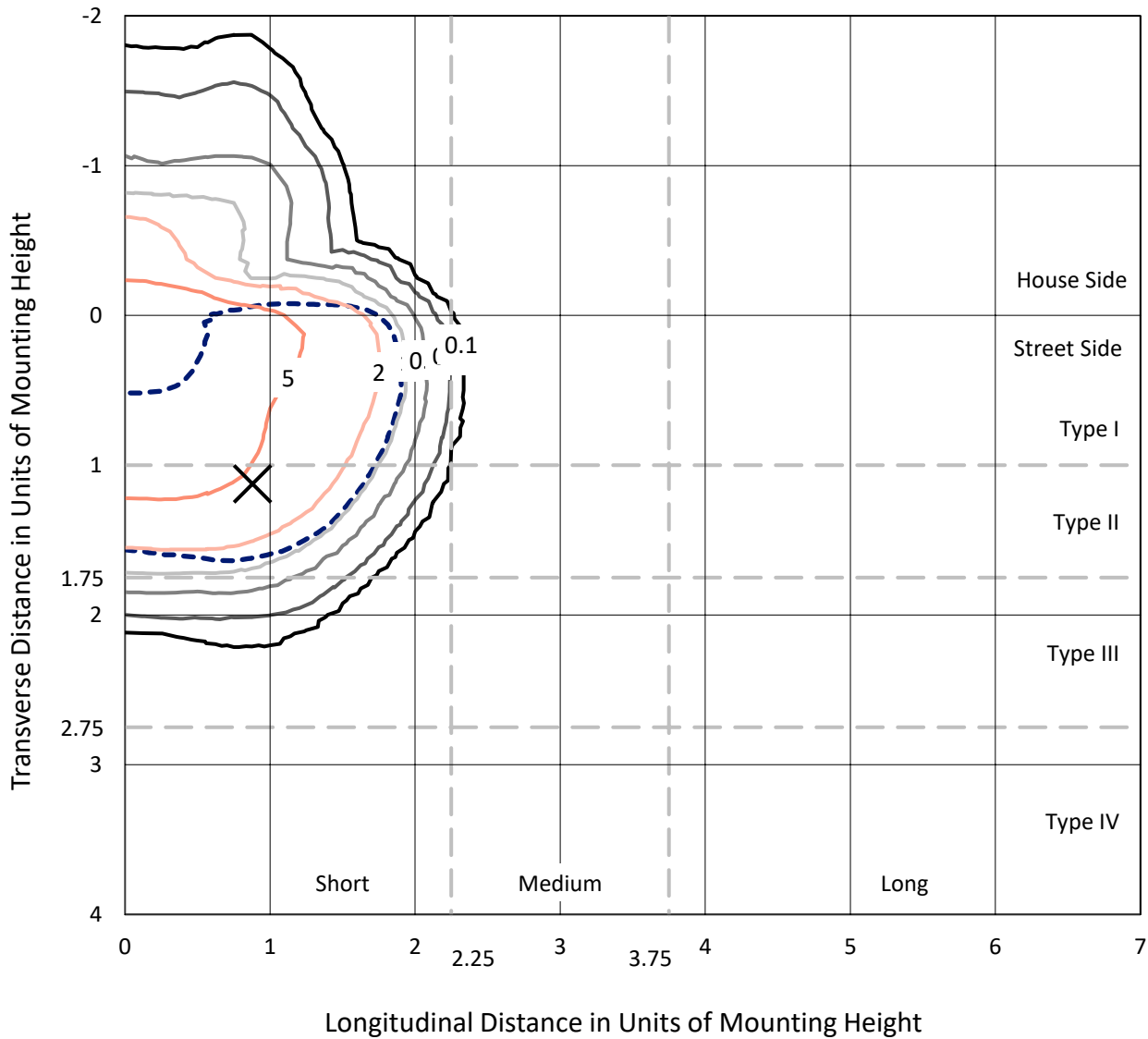
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

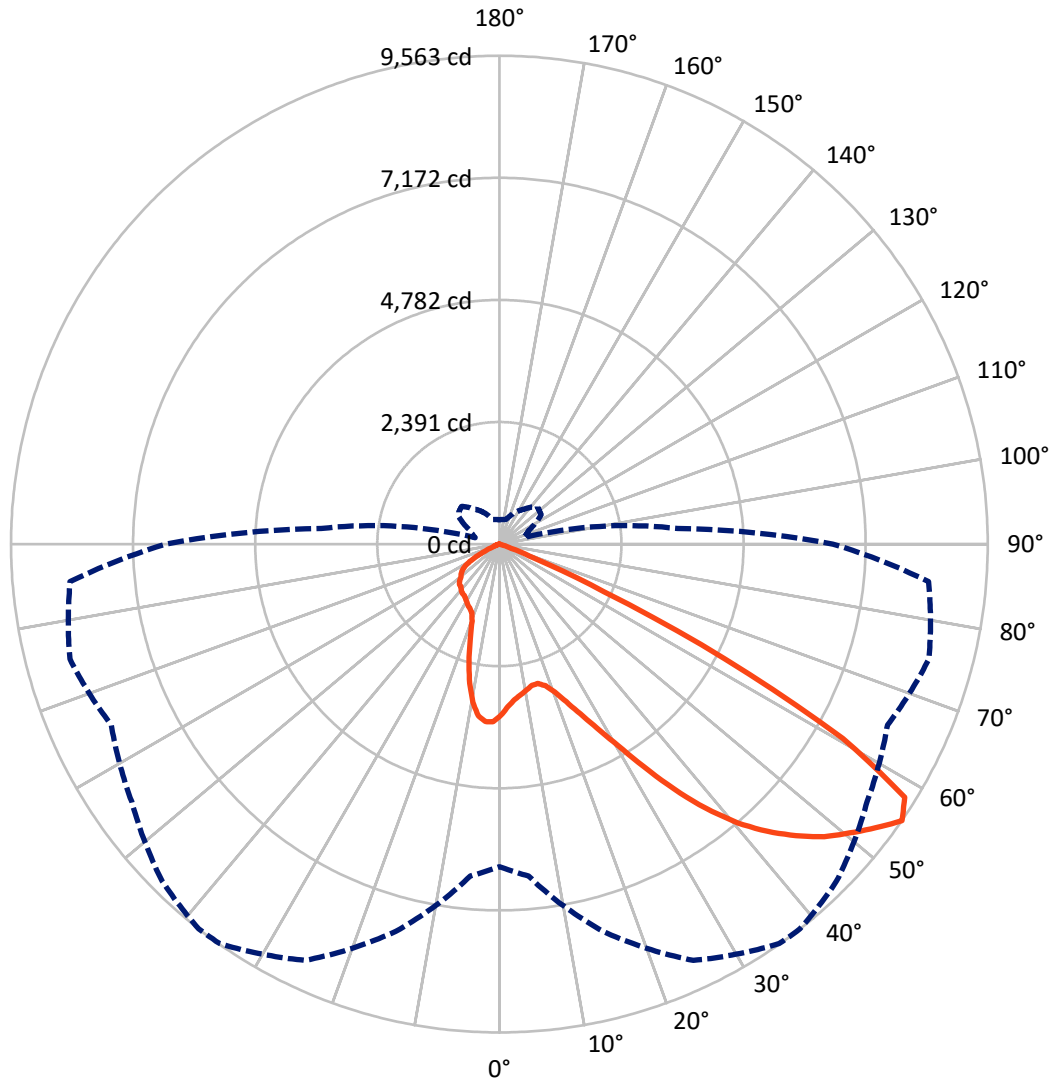
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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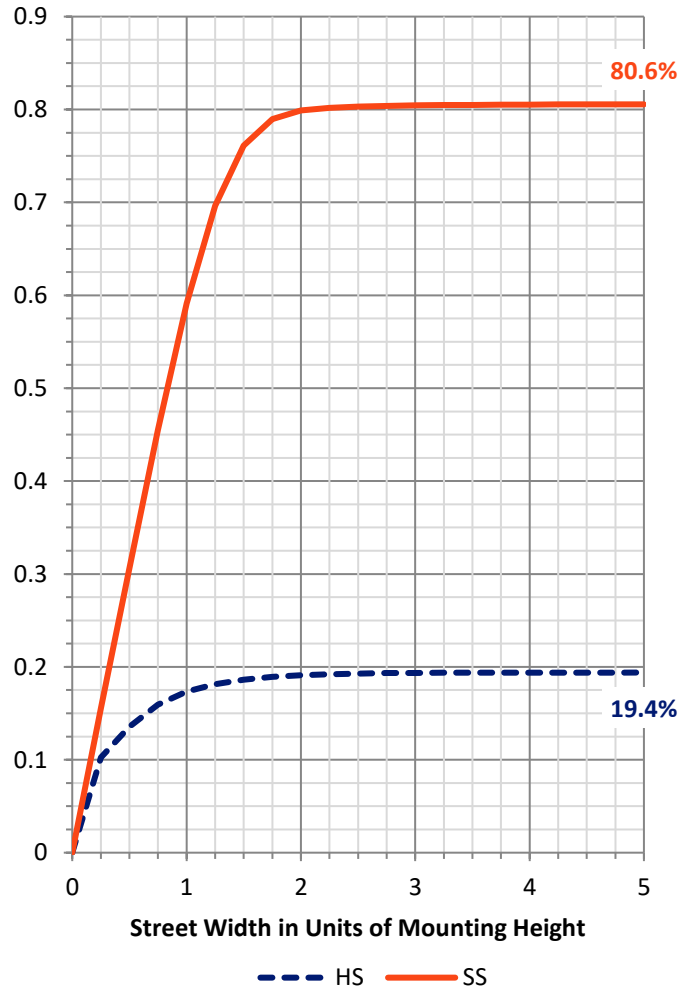
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2725.0	0.0	2725.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	11261.4	0.0	11261.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	13986.4	0.0	13986.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.1	2.2
10°-20°	834.9	6.0
20°-30°	1432.7	10.2
30°-40°	2376.3	17.0
40°-50°	3493.2	25.0
50°-60°	4081.9	29.2
60°-70°	1383.7	9.9
70°-80°	70.7	0.5
80°-90°	2.8	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°	13986.4	100.0
0°-180°	13986.4	100.0

Coefficient of Utilization



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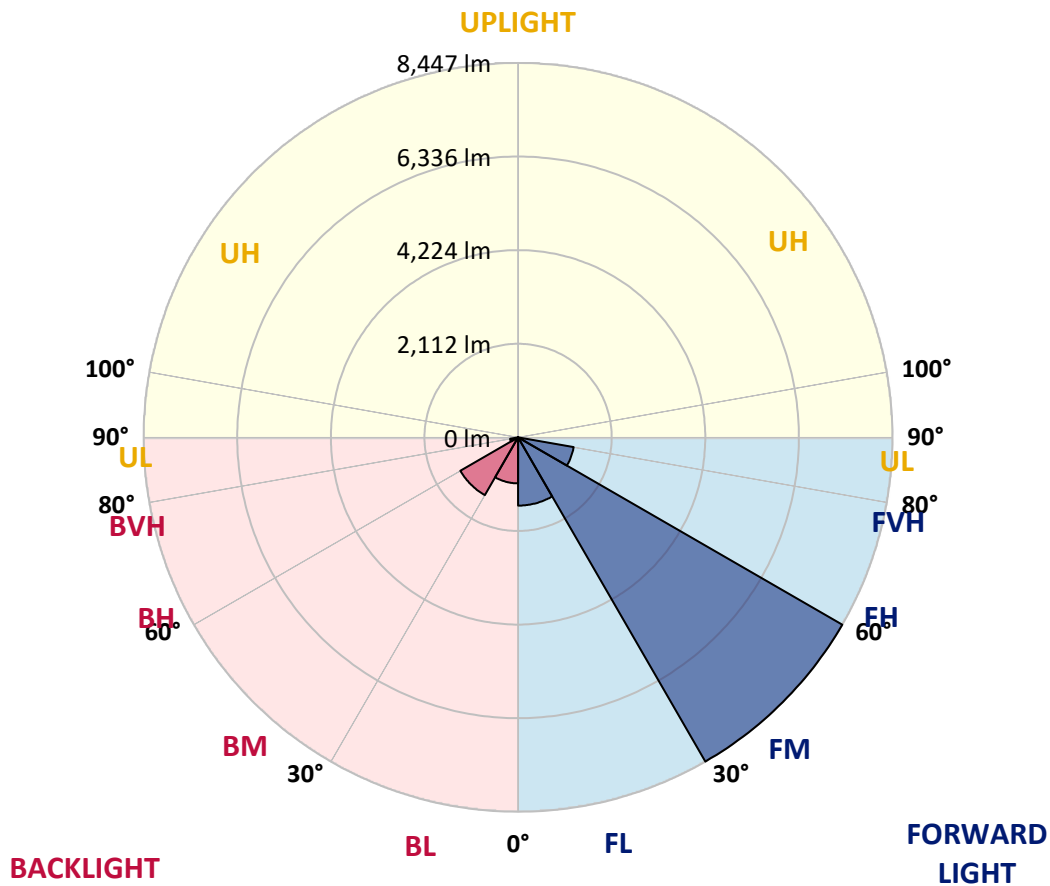
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1539.6	11.0			
FM (30°-60°)	8447.4	60.4			
FH (60°-80°)	1273.0	9.1			G1/1800
FVH (80°-90°)	1.5	0.0			G0/10
BL (0°-30°)	1038.2	7.4	B3/2500		
BM (30°-60°)	1504.1	10.8	B2/2500		
BH (60°-80°)	181.4	1.3	B1/500		G1/500
BVH (80°-90°)	1.3	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°	38°	45°	55°	65°	75°	85°
0°	3354.0	3354.0	3354.0	3354.0	3354.0	3354.0	3354.0	3354.0	3354.0	3354.0	3354.0
2.5°	3123.8	3117.4	3130.2	3155.8	3179.8	3187.8	3211.8	3245.3	3266.1	3315.7	3355.6
5°	2983.2	2980.0	2992.7	3015.1	3047.1	3058.3	3095.1	3151.0	3207.0	3293.3	3378.0
7.5°	2855.3	2853.7	2872.8	2922.4	2968.8	2983.2	3027.9	3096.7	3171.8	3304.5	3429.2
10°	2687.4	2689.0	2725.8	2796.1	2880.8	2909.6	2981.6	3080.7	3178.2	3349.2	3521.9
12.5°	2633.0	2636.2	2655.4	2709.8	2802.5	2839.3	2940.0	3090.3	3215.0	3413.2	3641.8
15°	2765.7	2765.7	2749.7	2756.1	2797.7	2831.3	2936.8	3122.2	3277.3	3489.9	3760.1
17.5°	3023.1	3013.5	2973.6	2919.2	2904.8	2916.0	3000.7	3191.0	3365.2	3579.5	3894.4
20°	3371.6	3374.8	3296.5	3183.0	3091.9	3090.3	3141.4	3312.5	3491.5	3686.6	4039.9
22.5°	3793.7	3780.9	3677.0	3521.9	3363.6	3350.8	3371.6	3497.9	3673.8	3856.0	4218.9
25°	4282.9	4276.5	4129.4	3921.6	3712.2	3681.8	3681.8	3806.5	3934.4	4097.4	4433.2
27.5°	4794.5	4794.5	4652.2	4412.4	4134.2	4079.8	4071.9	4218.9	4303.7	4335.6	4613.8
30°	5320.4	5314.0	5173.4	4927.2	4629.8	4573.8	4551.5	4660.2	4720.9	4625.0	4839.2
32.5°	5854.4	5865.6	5723.3	5494.7	5229.3	5192.5	5123.8	5123.8	5173.4	5039.1	5194.1
35°	6428.3	6425.1	6313.2	6158.1	5931.1	5889.6	5776.1	5598.6	5673.7	5614.6	5684.9
37.5°	6935.1	6959.1	6904.7	6789.6	6605.8	6564.2	6377.2	6055.8	6113.4	6206.1	6268.5
40°	7449.9	7469.1	7523.4	7486.7	7254.8	7178.1	6845.6	6318.0	6382.0	6700.1	6879.2
42.5°	7955.1	7964.7	8075.0	8135.7	7825.6	7691.3	7200.5	6477.9	6545.0	7087.0	7400.3
45°	8276.4	8297.2	8479.4	8664.9	8329.2	8145.3	7509.0	6682.5	6711.3	7355.6	7785.6
47.5°	8263.6	8311.6	8653.7	8991.0	8762.4	8564.2	7879.9	7010.2	6962.3	7608.2	8039.8
50°	8006.2	8063.8	8554.6	9090.1	9074.1	8890.3	8292.4	7485.1	7334.8	7832.0	8071.8
52.5°	7472.3	7638.5	8380.3	9102.9	9325.1	9232.4	8802.4	8124.5	7838.4	8153.3	8122.9
55°	6318.0	6522.6	7851.2	8994.2	9552.2	9563.3	9337.9	8791.2	8385.1	8706.5	8437.9
57.5°	4796.1	4959.1	6043.0	8006.2	9176.5	9360.3	9545.8	9142.9	8722.4	9083.7	8511.4
60°	2890.4	3079.1	3784.1	5875.2	7411.5	7724.9	8452.3	8373.9	7867.1	8022.2	6979.9
62.5°	1171.8	1271.0	1747.4	3237.3	4665.0	4957.5	5654.6	5772.9	5648.2	5489.9	4233.3
65°	428.4	468.4	700.2	1338.1	2145.4	2252.6	2620.2	2829.7	3002.3	2556.3	1574.7
67.5°	265.4	291.0	455.6	687.4	780.2	725.8	738.6	880.9	840.9	519.6	281.4
70°	196.6	217.4	356.5	476.4	314.9	243.0	164.7	175.9	158.3	139.1	137.5
72.5°	135.9	155.1	267.0	281.4	121.5	86.3	60.8	84.7	95.9	94.3	97.5
75°	89.5	103.9	167.9	110.3	30.4	24.0	20.8	44.8	57.6	57.6	59.2
77.5°	52.8	60.8	59.2	22.4	6.4	6.4	4.8	8.0	12.8	14.4	17.6
80°	6.4	4.8	3.2	3.2	3.2	3.2	3.2	3.2	4.8	4.8	4.8
82.5°	1.6	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2	4.8	4.8
85°	0.0	0.0	1.6	1.6	3.2	3.2	3.2	3.2	3.2	4.8	4.8
87.5°	0.0	0.0	1.6	1.6	3.2	3.2	3.2	3.2	3.2	4.8	4.8
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°	3354.0	3354.0	3354.0	3354.0	3354.0	3354.0	3354.0	3354.0	3354.0	3354.0	3354.0
2.5°	3386.0	3374.8	3421.2	3454.8	3481.9	3494.7	3477.1	3475.5	3475.5	3440.4	3430.8
5°	3426.0	3430.8	3496.3	3525.1	3529.9	3513.9	3473.9	3446.8	3430.8	3394.0	3373.2
7.5°	3502.7	3518.7	3581.1	3576.3	3533.1	3459.6	3354.0	3272.5	3219.8	3162.2	3127.0
10°	3613.0	3643.4	3681.8	3614.6	3477.1	3290.1	3072.7	2917.6	2824.9	2759.3	2719.4
12.5°	3747.3	3777.7	3764.9	3606.6	3320.5	2986.3	2706.6	2482.8	2375.6	2316.5	2274.9
15°	3883.2	3902.4	3819.3	3510.7	3043.9	2594.7	2282.9	2060.7	1929.6	1881.7	1846.5
17.5°	4022.3	4017.5	3828.9	3322.1	2674.6	2153.4	1846.5	1694.6	1657.8	1649.8	1646.6
20°	4167.8	4124.6	3790.5	3051.9	2230.2	1717.0	1542.7	1552.3	1619.5	1651.4	1657.8
22.5°	4334.0	4225.3	3694.6	2685.8	1776.1	1430.8	1448.4	1542.7	1633.9	1677.0	1683.4
25°	4511.5	4318.1	3534.7	2215.8	1400.5	1315.7	1419.6	1528.3	1625.9	1678.6	1685.0
27.5°	4628.2	4340.4	3272.5	1742.6	1202.2	1271.0	1381.3	1485.2	1585.9	1643.5	1651.4
30°	4754.5	4330.8	2916.0	1342.9	1135.1	1232.6	1328.5	1422.8	1515.6	1579.5	1585.9
32.5°	4939.9	4324.4	2481.2	1090.3	1107.9	1202.2	1272.6	1350.9	1414.8	1451.6	1446.8
35°	5182.9	4316.5	1974.4	983.2	1091.9	1178.2	1234.2	1271.0	1200.6	1178.2	1183.0
37.5°	5494.7	4335.6	1547.5	938.4	1087.1	1171.8	1219.8	1114.3	1005.6	964.0	957.6
40°	5840.0	4385.2	1179.8	920.8	1103.1	1187.8	1165.4	991.2	856.9	775.4	757.8
42.5°	6186.9	4439.6	933.6	914.4	1130.3	1232.6	1075.9	901.7	700.2	653.9	647.5
45°	6444.3	4430.0	807.3	903.3	1154.3	1258.2	1051.9	773.8	625.1	604.3	605.9
47.5°	6573.8	4324.4	738.6	877.7	1163.8	1232.6	992.8	721.0	573.9	596.3	615.5
50°	6505.1	4051.1	674.6	828.1	1143.1	1199.0	898.5	681.0	548.3	641.1	684.2
52.5°	6421.9	3715.3	604.3	751.4	1093.5	1152.7	861.7	669.8	532.4	618.7	650.7
55°	6532.2	3502.7	489.2	633.1	996.0	1043.9	832.9	668.3	495.6	481.2	476.4
57.5°	6377.2	3079.1	350.1	455.6	764.2	826.5	812.1	657.1	439.6	438.0	444.4
60°	4928.8	1878.5	239.8	289.4	468.4	527.6	737.0	628.3	378.9	348.5	350.1
62.5°	2800.9	799.3	164.7	179.1	239.8	284.6	562.7	570.7	350.1	332.5	350.1
65°	975.2	286.2	127.9	119.9	132.7	151.9	322.9	441.2	318.1	287.8	291.0
67.5°	201.4	142.3	113.5	99.1	99.1	99.1	164.7	275.0	262.2	228.6	231.8
70°	127.9	121.5	99.1	84.7	81.5	75.1	94.3	151.9	180.7	166.3	167.9
72.5°	94.3	92.7	78.3	68.7	60.8	54.4	59.2	75.1	92.7	95.9	97.5
75°	57.6	59.2	51.2	43.2	38.4	33.6	35.2	35.2	35.2	32.0	35.2
77.5°	17.6	19.2	16.0	12.8	11.2	11.2	11.2	9.6	8.0	4.8	4.8
80°	4.8	4.8	4.8	4.8	4.8	3.2	3.2	1.6	1.6	0.0	0.0
82.5°	4.8	4.8	4.8	4.8	3.2	3.2	1.6	1.6	0.0	0.0	0.0
85°	4.8	4.8	4.8	4.8	3.2	3.2	1.6	1.6	0.0	0.0	0.0
87.5°	4.8	4.8	4.8	4.8	3.2	3.2	1.6	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)