

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: P637730

Luminaire Tested: GWS-SA4D-735-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637730
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15148.7 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

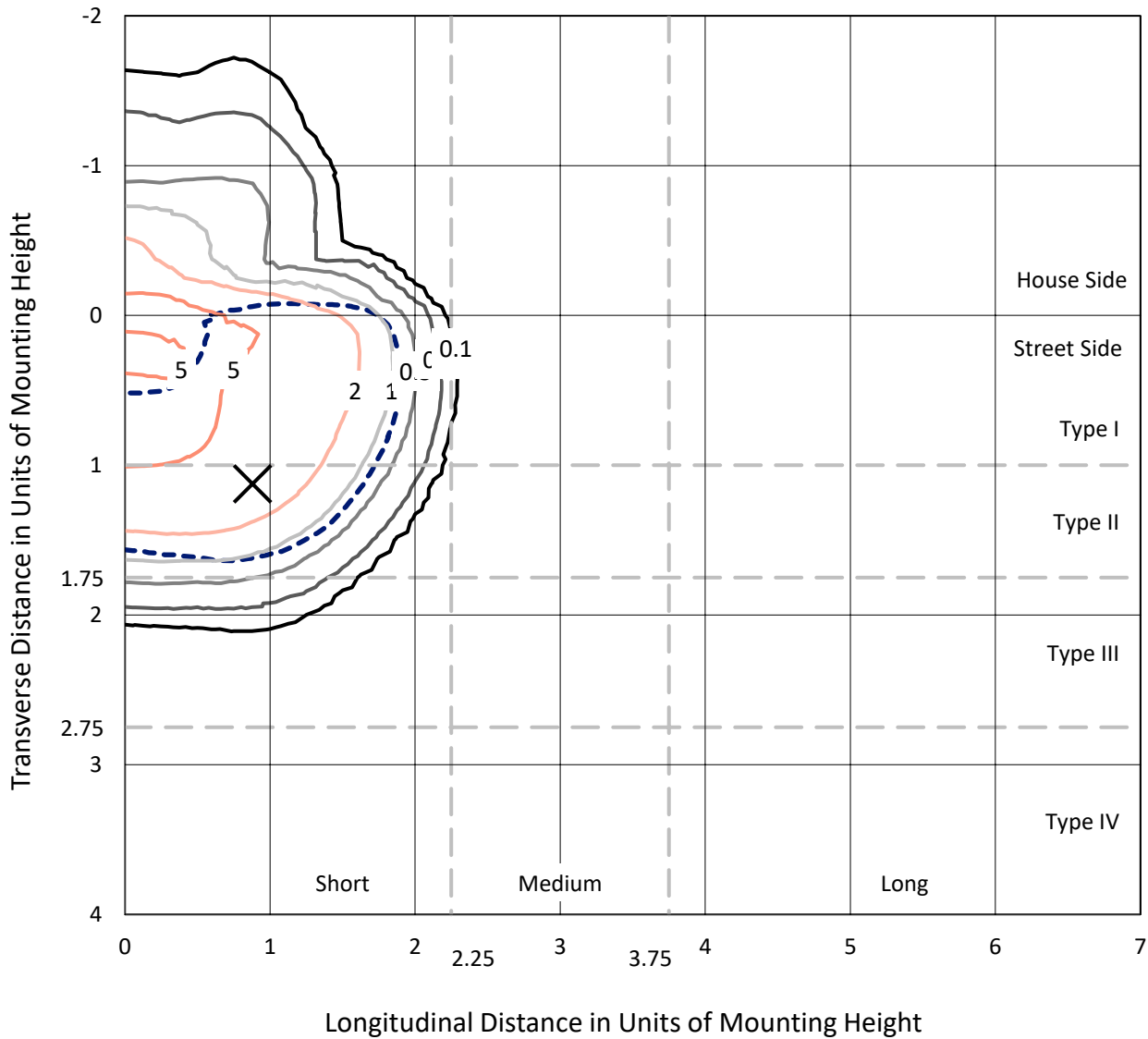
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637730
 CATALOG NUMBER: GWS-SA4D-735-U-T3R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

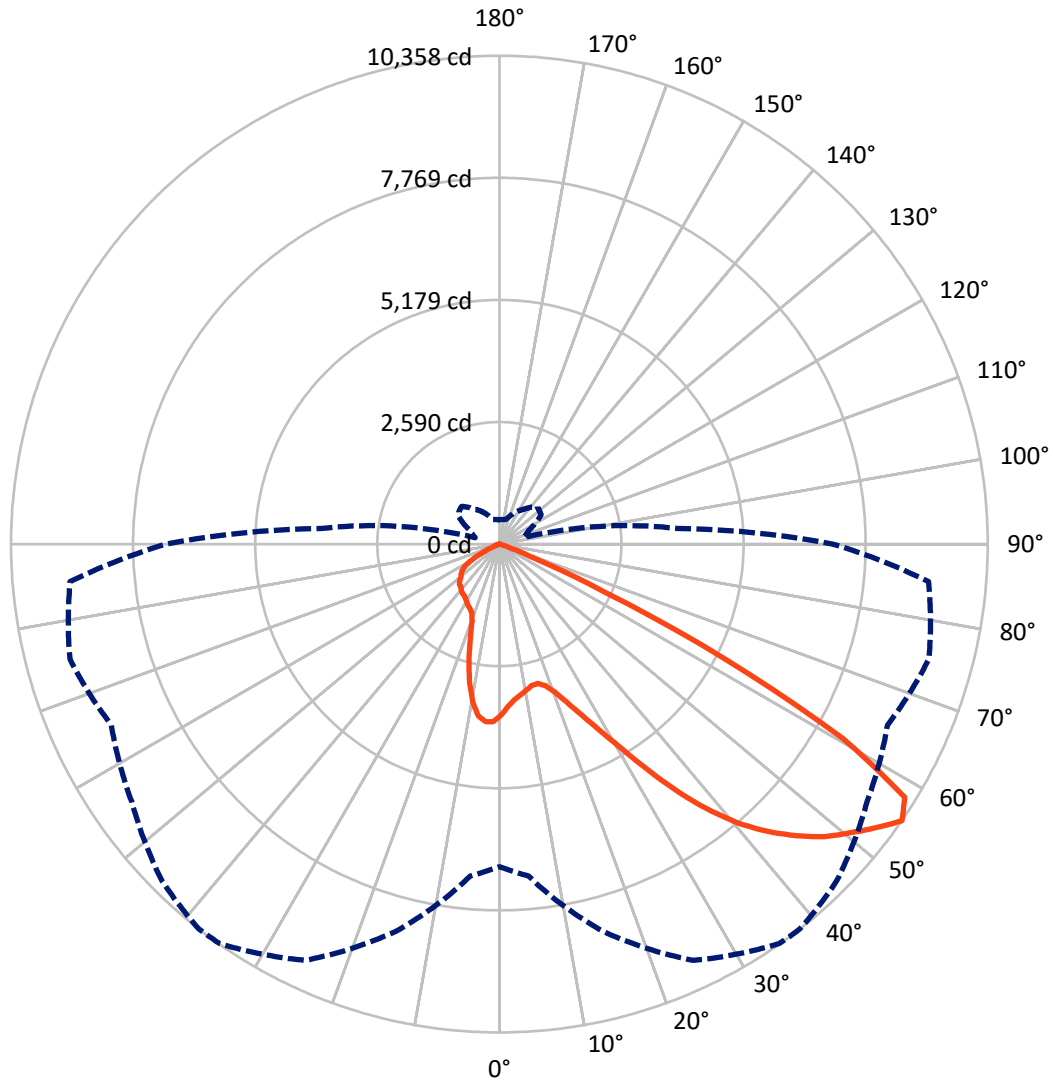
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

REPORT NUMBER: P637730
CATALOG NUMBER: GWS-SA4D-735-U-T3R-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637730

CATALOG NUMBER: GWS-SA4D-735-U-T3R-W-GRSBK

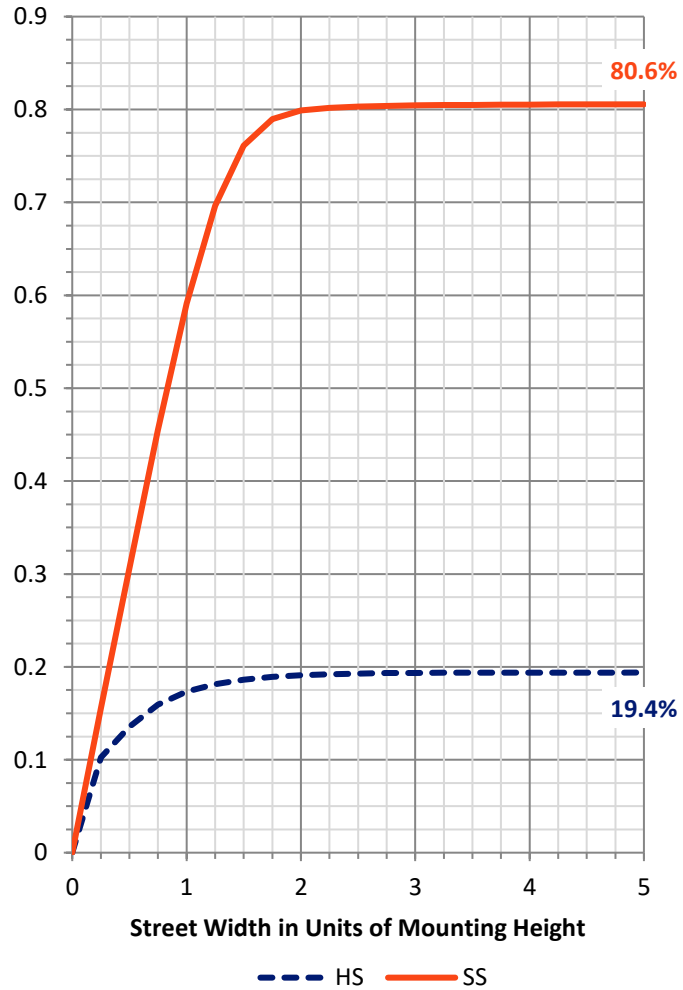
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2951.4	0.0	2951.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	12197.3	0.0	12197.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	15148.7	0.0	15148.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.9	2.2
10°-20°	904.3	6.0
20°-30°	1551.8	10.2
30°-40°	2573.8	17.0
40°-50°	3783.5	25.0
50°-60°	4421.2	29.2
60°-70°	1498.6	9.9
70°-80°	76.6	0.5
80°-90°	3.0	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°	15148.7	100.0
0°-180°	15148.7	100.0

Coefficient of Utilization



REPORT NUMBER: P637730

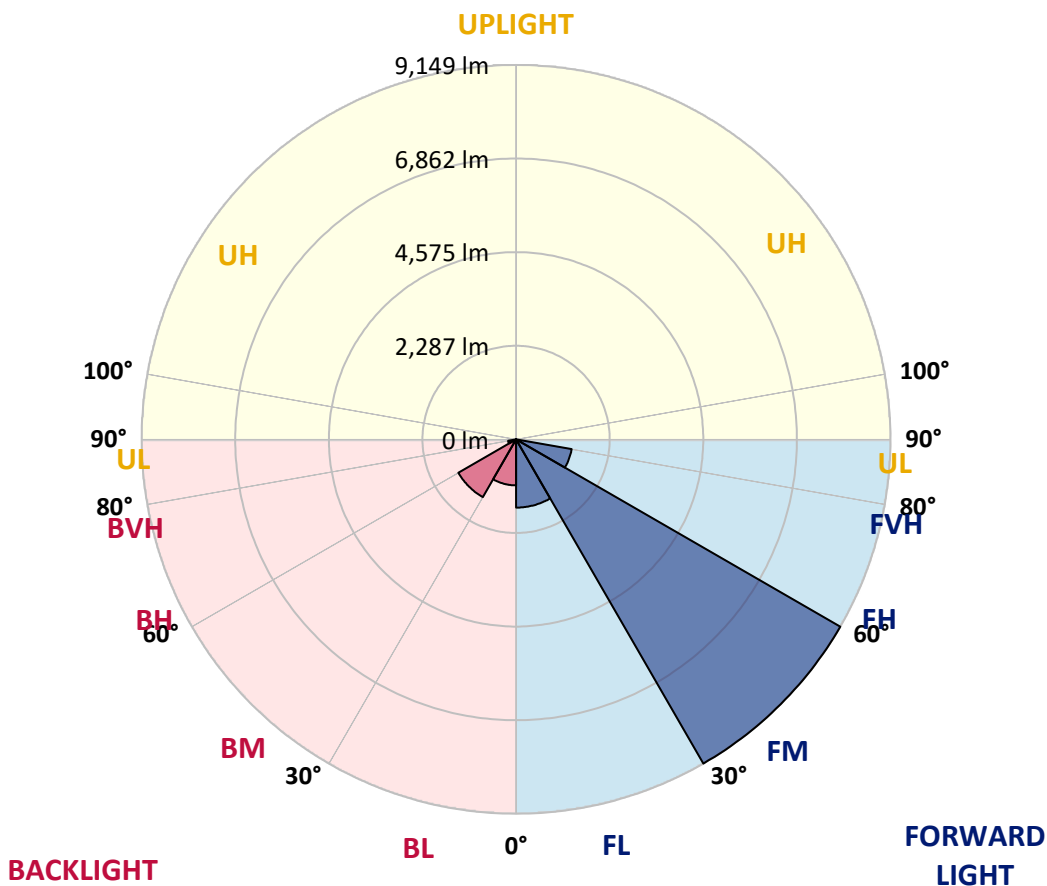
CATALOG NUMBER: GWS-SA4D-735-U-T3R-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1667.5	11.0			
FM (30°-60°)	9149.4	60.4			
FH (60°-80°)	1378.8	9.1			G1/1800
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	1124.5	7.4	B3/2500		
BM (30°-60°)	1629.1	10.8	B2/2500		
BH (60°-80°)	196.5	1.3	B1/500		G1/500
BVH (80°-90°)	1.4	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





REPORT NUMBER: P637730

CATALOG NUMBER: GWS-SA4D-735-U-T3R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3632.8	3632.8	3632.8	3632.8	3632.8	3632.8	3632.8	3632.8	3632.8	3632.8	3632.8
2.5°	3383.4	3376.5	3390.4	3418.1	3444.0	3452.7	3478.7	3515.0	3537.5	3591.2	3634.5
5°	3231.1	3227.6	3241.4	3265.7	3300.3	3312.4	3352.3	3412.9	3473.5	3567.0	3658.7
7.5°	3092.5	3090.8	3111.6	3165.3	3215.5	3231.1	3279.5	3354.0	3435.4	3579.1	3714.2
10°	2910.7	2912.5	2952.3	3028.5	3120.2	3151.4	3229.3	3336.7	3442.3	3627.6	3814.6
12.5°	2851.8	2855.3	2876.1	2935.0	3035.4	3075.2	3184.3	3347.1	3482.1	3696.8	3944.5
15°	2995.6	2995.6	2978.3	2985.2	3030.2	3066.6	3180.8	3381.7	3549.7	3780.0	4072.6
17.5°	3274.3	3264.0	3220.7	3161.8	3146.2	3158.3	3250.1	3456.2	3644.9	3876.9	4218.0
20°	3651.8	3655.3	3570.4	3447.5	3348.8	3347.1	3402.5	3587.8	3781.7	3992.9	4375.6
22.5°	4108.9	4095.1	3982.5	3814.6	3643.2	3629.3	3651.8	3788.6	3979.1	4176.5	4569.5
25°	4638.8	4631.9	4472.6	4247.5	4020.6	3987.7	3987.7	4122.8	4261.3	4437.9	4801.6
27.5°	5192.9	5192.9	5038.8	4779.1	4477.8	4418.9	4410.2	4569.5	4661.3	4695.9	4997.2
30°	5762.6	5755.6	5603.3	5336.6	5014.5	4953.9	4929.7	5047.4	5113.2	5009.3	5241.4
32.5°	6340.9	6353.0	6198.9	5951.3	5663.9	5624.0	5549.6	5549.6	5603.3	5457.8	5625.8
35°	6962.5	6959.1	6837.9	6669.9	6424.0	6379.0	6256.1	6063.9	6145.2	6081.2	6157.4
37.5°	7511.4	7537.4	7478.5	7353.9	7154.7	7109.7	6907.1	6559.1	6621.4	6721.8	6789.4
40°	8069.0	8089.8	8148.6	8108.8	7857.7	7774.6	7414.5	6843.1	6912.3	7256.9	7450.8
42.5°	8616.2	8626.5	8746.0	8811.8	8475.9	8330.4	7798.9	7016.2	7088.9	7675.9	8015.3
45°	8964.2	8986.7	9184.1	9385.0	9021.3	8822.2	8133.1	7237.8	7269.0	7966.8	8432.6
47.5°	8950.3	9002.3	9372.8	9738.2	9490.6	9275.9	8534.8	7592.8	7540.9	8240.4	8707.9
50°	8671.6	8733.9	9265.5	9845.5	9828.2	9629.1	8981.5	8107.1	7944.3	8482.8	8742.6
52.5°	8093.2	8273.3	9076.7	9859.4	10100.1	9999.7	9533.9	8799.7	8489.7	8830.9	8798.0
55°	6843.1	7064.7	8503.6	9741.7	10346.0	10358.1	10113.9	9521.7	9081.9	9430.0	9139.1
57.5°	5194.6	5371.2	6545.2	8671.6	9939.0	10138.2	10339.0	9902.7	9447.3	9838.6	9218.7
60°	3130.6	3334.9	4098.6	6363.4	8027.4	8366.8	9154.7	9069.8	8520.9	8688.9	7559.9
62.5°	1269.2	1376.6	1892.6	3506.4	5052.6	5369.5	6124.5	6252.6	6117.5	5946.1	4585.1
65°	464.1	507.3	758.4	1449.3	2323.7	2439.7	2838.0	3064.8	3251.8	2768.7	1705.6
67.5°	287.4	315.1	493.5	744.6	845.0	786.1	800.0	954.1	910.8	562.8	304.8
70°	213.0	235.5	386.1	516.0	341.1	263.2	178.3	190.5	171.4	150.6	148.9
72.5°	147.2	168.0	289.2	304.8	131.6	93.5	65.8	91.8	103.9	102.2	105.6
75°	97.0	112.6	181.8	119.5	32.9	26.0	22.5	48.5	62.3	62.3	64.1
77.5°	57.1	65.8	64.1	24.2	6.9	6.9	5.2	8.7	13.9	15.6	19.0
80°	6.9	5.2	3.5	3.5	3.5	3.5	3.5	3.5	5.2	5.2	5.2
82.5°	1.7	1.7	1.7	3.5	3.5	3.5	3.5	3.5	3.5	5.2	5.2
85°	0.0	0.0	1.7	1.7	3.5	3.5	3.5	3.5	3.5	5.2	5.2
87.5°	0.0	0.0	1.7	1.7	3.5	3.5	3.5	3.5	3.5	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637730

CATALOG NUMBER: GWS-SA4D-735-U-T3R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3632.8	3632.8	3632.8	3632.8	3632.8	3632.8	3632.8	3632.8	3632.8	3632.8	3632.8
2.5°	3667.4	3655.3	3705.5	3741.9	3771.3	3785.1	3766.1	3764.4	3764.4	3726.3	3715.9
5°	3710.7	3715.9	3786.9	3818.0	3823.2	3805.9	3762.6	3733.2	3715.9	3676.1	3653.6
7.5°	3793.8	3811.1	3878.7	3873.5	3826.7	3747.1	3632.8	3544.5	3487.3	3425.0	3386.9
10°	3913.3	3946.2	3987.7	3915.0	3766.1	3563.5	3328.0	3160.1	3059.6	2988.6	2945.4
12.5°	4058.7	4091.6	4077.8	3906.4	3596.4	3234.5	2931.5	2689.1	2573.1	2509.0	2464.0
15°	4205.9	4226.7	4136.7	3802.5	3296.9	2810.3	2472.6	2232.0	2090.0	2038.0	1999.9
17.5°	4356.6	4351.4	4147.0	3598.1	2896.9	2332.4	1999.9	1835.4	1795.6	1787.0	1783.5
20°	4514.1	4467.4	4105.5	3305.5	2415.5	1859.7	1670.9	1681.3	1754.1	1788.7	1795.6
22.5°	4694.2	4576.5	4001.6	2909.0	1923.7	1549.7	1568.8	1670.9	1769.6	1816.4	1823.3
25°	4886.4	4676.9	3828.4	2399.9	1516.8	1425.1	1537.6	1655.4	1761.0	1818.1	1825.0
27.5°	5012.8	4701.1	3544.5	1887.4	1302.1	1376.6	1496.1	1608.6	1717.7	1780.0	1788.7
30°	5149.6	4690.7	3158.3	1454.5	1229.4	1335.0	1438.9	1541.1	1641.5	1710.8	1717.7
32.5°	5350.5	4683.8	2687.4	1180.9	1200.0	1302.1	1378.3	1463.2	1532.4	1572.2	1567.0
35°	5613.7	4675.2	2138.5	1064.9	1182.6	1276.1	1336.8	1376.6	1300.4	1276.1	1281.3
37.5°	5951.3	4695.9	1676.1	1016.4	1177.4	1269.2	1321.2	1206.9	1089.1	1044.1	1037.2
40°	6325.3	4749.6	1277.9	997.4	1194.8	1286.5	1262.3	1073.6	928.1	839.8	820.8
42.5°	6701.1	4808.5	1011.2	990.4	1224.2	1335.0	1165.3	976.6	758.4	708.2	701.3
45°	6979.8	4798.1	874.4	978.3	1250.2	1362.7	1139.4	838.1	677.0	654.5	656.3
47.5°	7120.1	4683.8	800.0	950.6	1260.6	1335.0	1075.3	780.9	621.6	645.9	666.6
50°	7045.6	4387.7	730.7	896.9	1238.1	1298.7	973.1	737.6	593.9	694.3	741.1
52.5°	6955.6	4024.1	654.5	813.8	1184.4	1248.4	933.3	725.5	576.6	670.1	704.7
55°	7075.1	3793.8	529.9	685.7	1078.8	1130.7	902.1	723.8	536.8	521.2	516.0
57.5°	6907.1	3334.9	379.2	493.5	827.7	895.2	879.6	711.7	476.2	474.4	481.4
60°	5338.3	2034.6	259.7	313.4	507.3	571.4	798.2	680.5	410.4	377.5	379.2
62.5°	3033.7	865.8	178.3	193.9	259.7	308.2	609.5	618.2	379.2	360.2	379.2
65°	1056.2	309.9	138.5	129.9	143.7	164.5	349.8	477.9	344.6	311.7	315.1
67.5°	218.2	154.1	122.9	107.4	107.4	107.4	178.3	297.8	284.0	247.6	251.1
70°	138.5	131.6	107.4	91.8	88.3	81.4	102.2	164.5	195.7	180.1	181.8
72.5°	102.2	100.4	84.8	74.5	65.8	58.9	64.1	81.4	100.4	103.9	105.6
75°	62.3	64.1	55.4	46.8	41.6	36.4	38.1	38.1	38.1	34.6	38.1
77.5°	19.0	20.8	17.3	13.9	12.1	12.1	12.1	10.4	8.7	5.2	5.2
80°	5.2	5.2	5.2	5.2	5.2	3.5	3.5	1.7	1.7	0.0	0.0
82.5°	5.2	5.2	5.2	5.2	3.5	3.5	1.7	1.7	0.0	0.0	0.0
85°	5.2	5.2	5.2	5.2	3.5	3.5	1.7	1.7	0.0	0.0	0.0
87.5°	5.2	5.2	5.2	5.2	3.5	3.5	1.7	1.7	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)