

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: P637238

Luminaire Tested: GWS-SA4C-735-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-735-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19463.3 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

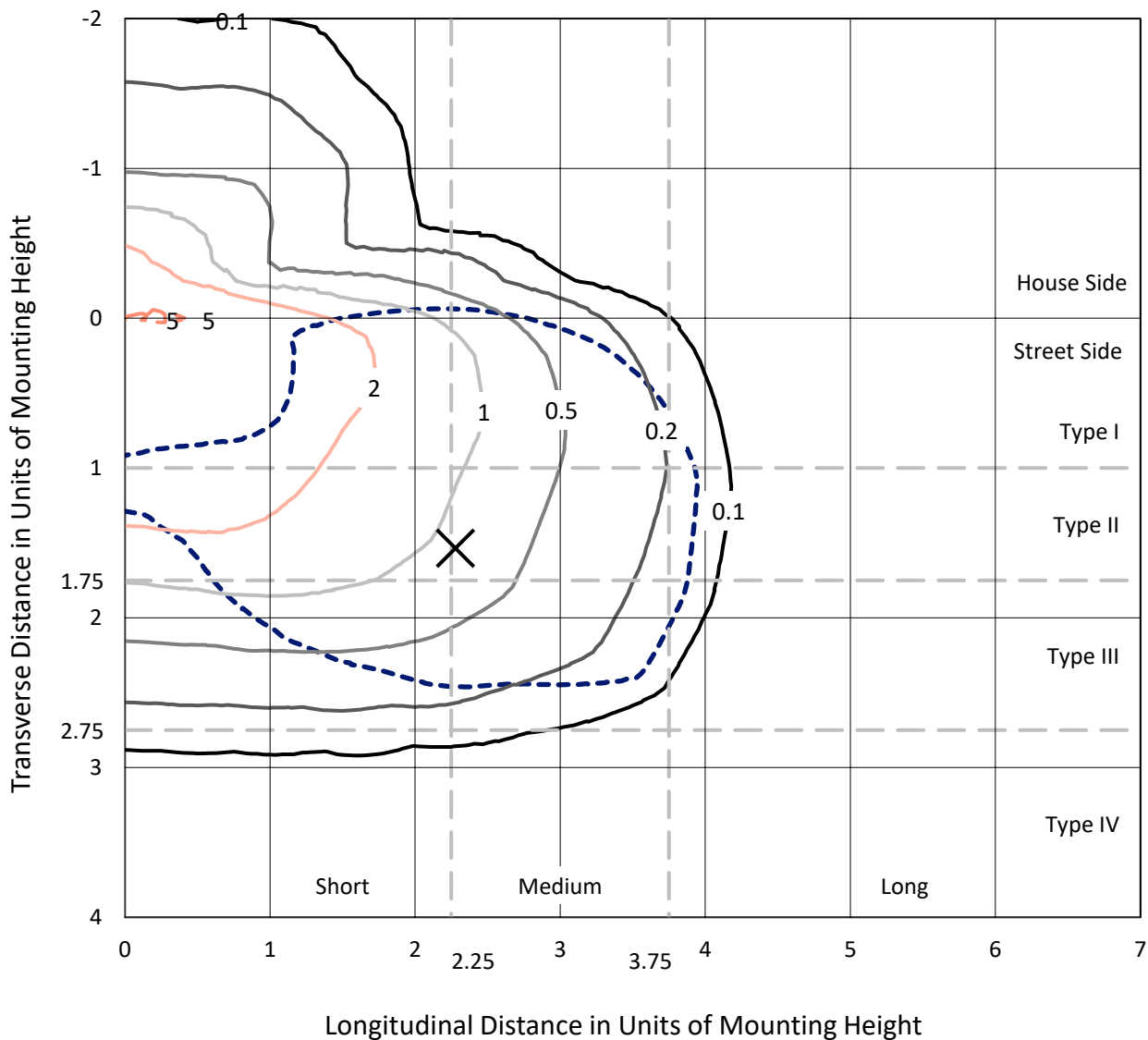
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

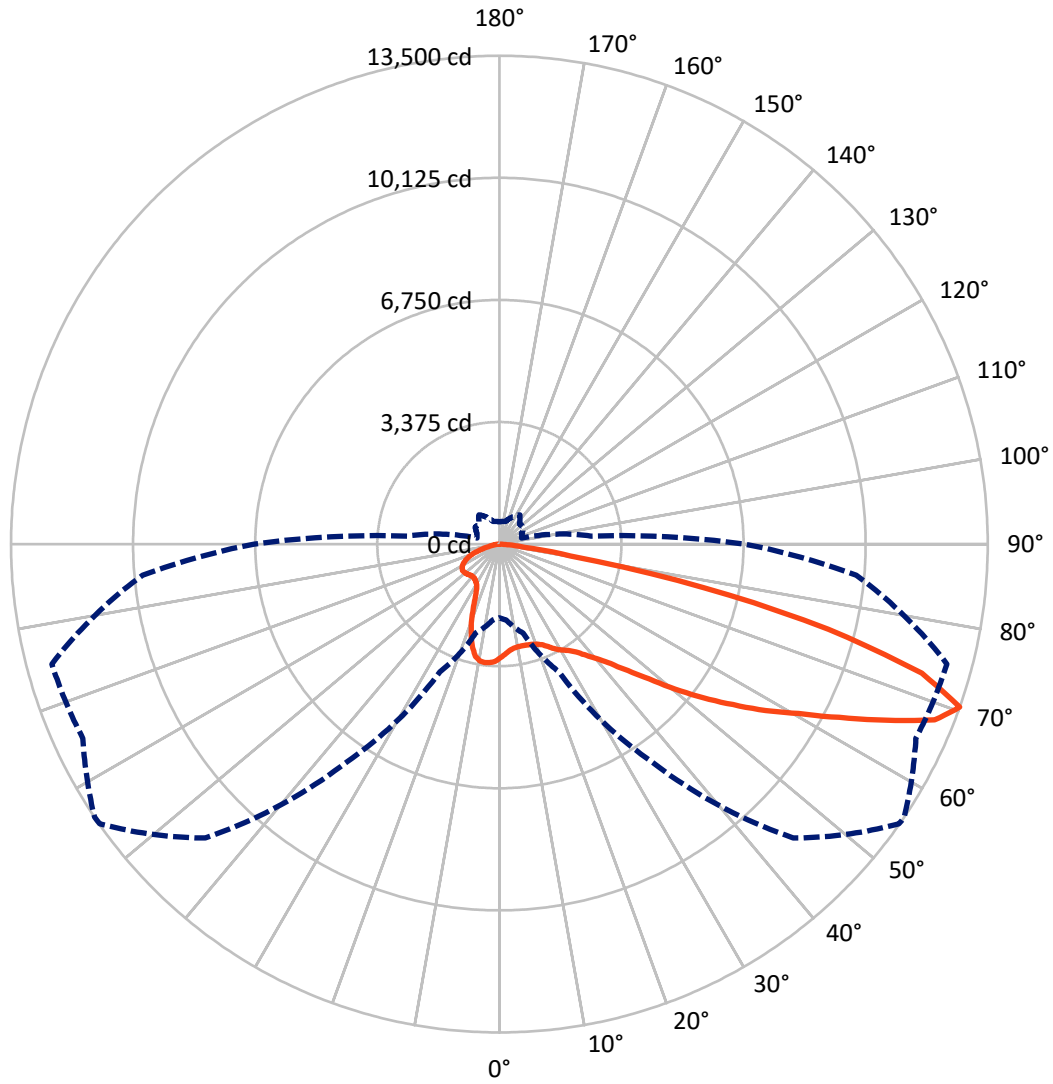
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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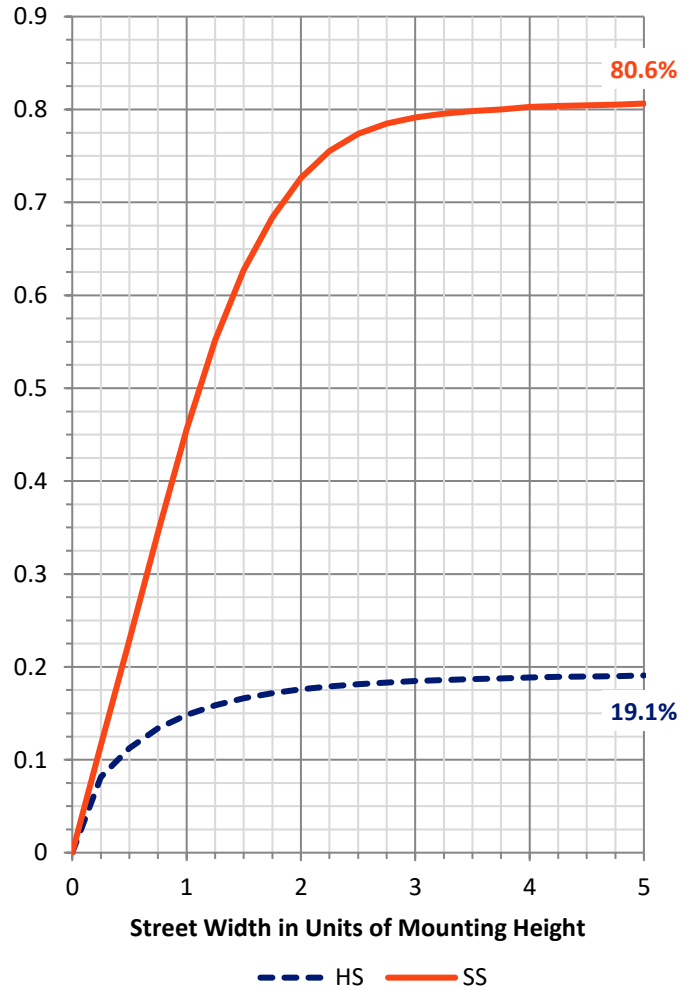
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3741.9	0.0	3741.9
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	15721.5	0.0	15721.5
	% Fixture	80.8	0.0	80.8
Total	Lumens	19463.3	0.0	19463.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.7	1.5
10°-20°	787.7	4.0
20°-30°	1302.3	6.7
30°-40°	1947.2	10.0
40°-50°	2897.7	14.9
50°-60°	4119.6	21.2
60°-70°	5102.3	26.2
70°-80°	2817.3	14.5
80°-90°	198.4	1.0
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°	19463.3	100.0
0°-180°	19463.3	100.0

Coefficient of Utilization



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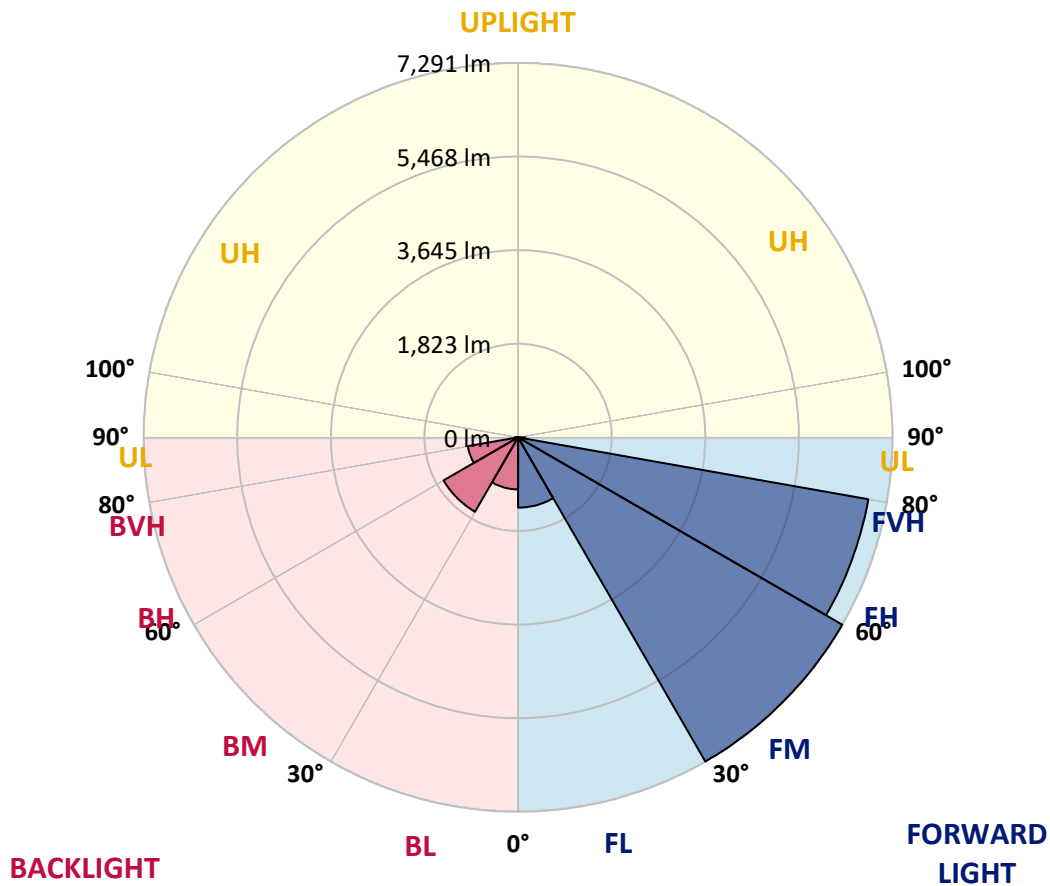
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1367.9	7.0			
FM (30°-60°)	7290.7	37.5			
FH (60°-80°)	6925.1	35.6			G3/7500
FVH (80°-90°)	137.9	0.7			G2/225
BL (0°-30°)	1012.9	5.2	B3/2500		
BM (30°-60°)	1673.8	8.6	B2/2500		
BH (60°-80°)	994.6	5.1	B2/1000		G2/1000
BVH (80°-90°)	60.5	0.3			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7
2.5°	2939.9	2923.4	2942.7	2952.3	2977.0	3012.7	3044.2	3045.6	3062.1	3101.9	3140.3
5°	2806.8	2798.5	2804.0	2832.9	2858.9	2904.2	2952.3	2956.4	3003.1	3081.3	3158.1
7.5°	2703.8	2692.9	2713.5	2750.5	2783.5	2834.2	2897.4	2902.9	2968.7	3086.8	3204.8
10°	2555.6	2547.4	2585.8	2635.2	2706.6	2790.3	2874.0	2880.9	2967.4	3122.5	3287.2
12.5°	2491.1	2491.1	2507.6	2554.2	2632.5	2743.6	2869.9	2880.9	2989.3	3177.4	3392.8
15°	2591.3	2598.2	2584.4	2581.7	2613.3	2718.9	2875.4	2891.9	3030.5	3233.6	3497.2
17.5°	2793.1	2799.9	2764.2	2708.0	2676.4	2742.3	2896.0	2913.8	3074.4	3295.4	3609.7
20°	3075.8	3084.0	3005.8	2919.3	2810.9	2809.5	2935.8	2952.3	3130.7	3362.7	3729.1
22.5°	3406.6	3412.1	3313.2	3176.0	3009.9	2934.4	3004.4	3020.9	3203.4	3456.0	3858.1
25°	3789.5	3806.0	3686.6	3487.5	3262.5	3106.0	3118.3	3137.6	3333.8	3580.9	4010.5
27.5°	4198.5	4219.1	4081.8	3862.2	3552.1	3295.4	3265.2	3281.7	3472.5	3657.7	4091.5
30°	4617.1	4632.2	4495.0	4243.8	3863.6	3509.5	3388.7	3398.3	3532.8	3694.8	4173.8
32.5°	5082.4	5070.1	4938.3	4648.7	4223.2	3766.2	3504.0	3501.3	3600.1	3768.9	4291.8
35°	5518.9	5536.7	5396.7	5076.9	4618.5	4083.2	3677.0	3666.0	3742.8	3889.7	4457.9
37.5°	6047.3	6041.8	5874.3	5528.5	5015.2	4386.5	3919.9	3900.7	3928.1	4077.7	4689.9
40°	6424.7	6463.2	6354.7	6032.2	5479.1	4759.9	4204.0	4161.5	4168.3	4309.7	5000.1
42.5°	6733.5	6769.2	6780.2	6574.3	6010.2	5221.0	4558.1	4515.6	4519.7	4720.1	5381.6
45°	6971.0	7019.0	7174.1	7113.7	6608.6	5753.6	5037.1	4993.2	4995.9	5218.3	5842.8
47.5°	7068.4	7120.6	7434.9	7579.0	7244.1	6390.4	5632.8	5568.3	5577.9	5823.6	6369.8
50°	7036.9	7106.9	7532.3	7937.2	7776.6	7038.2	6345.1	6299.8	6262.8	6619.6	6942.2
52.5°	6765.1	6842.0	7522.7	8165.1	8211.7	7650.4	7080.8	7054.7	7046.5	7465.1	7581.7
55°	5964.9	6093.9	7192.0	8225.5	8552.1	8226.8	7878.2	7834.3	7876.8	8370.9	8228.2
57.5°	5521.6	5617.7	6544.1	8158.2	8830.7	8775.8	8674.3	8678.4	8726.4	9355.0	9011.9
60°	5269.1	5381.6	6184.5	7974.3	9098.4	9442.9	9507.4	9507.4	9593.8	10416.0	9808.0
62.5°	4934.2	5048.1	5848.3	7620.2	9345.4	10227.9	10554.6	10550.5	10584.8	11553.8	10586.2
65°	4254.8	4360.5	5173.0	7061.6	9466.2	11092.6	11744.6	11732.2	11663.6	12566.7	11100.9
67.5°	3089.5	3189.7	3962.4	5999.2	9031.1	11789.9	12970.2	12975.7	12565.3	13204.9	11128.3
70°	2036.8	2105.4	2547.4	3896.6	7344.3	11489.3	13483.5	13500.0	12704.0	12806.9	9904.0
72.5°	1270.9	1319.0	1590.7	2323.7	4339.9	9094.3	12165.9	12211.2	11428.9	11254.6	8137.6
75°	844.1	877.0	1058.2	1354.7	2008.0	4921.8	9248.0	9393.5	9160.1	8822.5	5669.8
77.5°	507.8	535.3	673.9	860.6	889.4	1922.9	5398.1	5774.2	5807.1	4606.1	2374.4
80°	232.0	263.5	372.0	491.4	473.5	669.8	1903.7	1991.5	2349.7	1463.1	749.4
82.5°	137.3	151.0	247.1	244.3	201.8	325.3	684.9	702.7	597.0	535.3	319.8
85°	54.9	64.5	104.3	92.0	74.1	105.7	258.0	270.4	259.4	233.3	118.0
87.5°	0.0	0.0	0.0	0.0	1.4	2.7	23.3	24.7	35.7	64.5	35.7
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°	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7	3141.7
2.5°	3165.0	3156.8	3197.9	3229.5	3243.2	3257.0	3244.6	3240.5	3240.5	3213.0	3199.3
5°	3199.3	3203.4	3259.7	3285.8	3285.8	3274.8	3241.9	3218.5	3210.3	3174.6	3165.0
7.5°	3263.8	3281.7	3333.8	3332.5	3294.0	3233.6	3151.3	3088.1	3030.5	3005.8	2990.7
10°	3369.5	3392.8	3428.5	3370.9	3263.8	3104.6	2930.3	2793.1	2710.7	2644.8	2644.8
12.5°	3490.3	3512.3	3505.4	3372.3	3151.3	2853.4	2602.3	2444.4	2329.1	2268.8	2268.8
15°	3611.1	3628.9	3554.8	3309.1	2916.6	2519.9	2245.4	2056.0	1955.8	1899.6	1899.6
17.5°	3733.2	3731.9	3575.4	3163.6	2610.5	2150.7	1881.7	1734.9	1700.5	1690.9	1689.6
20°	3851.3	3819.7	3549.3	2920.7	2255.0	1778.8	1608.6	1618.2	1669.0	1690.9	1693.7
22.5°	3984.4	3906.2	3472.5	2610.5	1851.5	1520.7	1531.7	1611.3	1685.4	1718.4	1722.5
25°	4120.3	3980.3	3343.4	2246.8	1513.9	1426.0	1511.1	1600.3	1684.1	1726.6	1730.7
27.5°	4175.2	3980.3	3123.8	1825.4	1334.1	1386.2	1479.6	1566.0	1653.9	1703.3	1712.9
30°	4220.5	3946.0	2816.4	1445.3	1260.0	1347.8	1428.8	1508.4	1594.9	1655.2	1666.2
32.5°	4283.6	3915.8	2444.4	1214.7	1225.7	1310.7	1367.0	1434.3	1512.5	1552.3	1548.2
35°	4357.7	3869.1	1995.6	1104.9	1196.8	1279.2	1319.0	1358.8	1323.1	1321.7	1325.8
37.5°	4463.4	3827.9	1604.5	1055.5	1177.6	1257.2	1290.2	1205.1	1155.7	1135.1	1126.8
40°	4615.8	3811.5	1265.5	1026.6	1174.9	1255.8	1232.5	1100.8	1033.5	962.1	960.8
42.5°	4807.9	3799.1	1045.9	1012.9	1184.5	1287.4	1152.9	1032.1	893.5	861.9	859.2
45°	5055.0	3779.9	936.1	1010.2	1207.8	1312.1	1144.7	937.4	842.7	829.0	829.0
47.5°	5352.8	3749.7	886.6	1010.2	1233.9	1301.1	1120.0	916.8	819.4	834.5	844.1
50°	5694.5	3711.3	860.6	1007.4	1260.0	1301.1	1067.8	912.7	813.9	892.1	923.7
52.5°	6059.6	3667.3	842.7	996.4	1277.8	1302.5	1070.6	926.4	819.4	905.9	931.9
55°	6463.2	3660.5	818.0	973.1	1283.3	1266.8	1077.4	956.6	827.6	820.8	822.1
57.5°	6972.4	3742.8	800.2	938.8	1261.3	1194.1	1091.1	978.6	818.0	819.4	829.0
60°	7504.9	3897.9	815.3	905.9	1216.0	1125.5	1100.8	967.6	771.4	749.4	752.1
62.5°	7957.8	4016.0	827.6	890.8	1150.2	1065.1	1091.1	942.9	745.3	739.8	752.1
65°	8147.2	3918.5	797.4	859.2	1054.1	991.0	1070.6	911.3	723.3	702.7	704.1
67.5°	7937.2	3461.5	738.4	789.2	945.7	896.2	1037.6	870.2	693.1	668.4	662.9
70°	6780.2	2543.3	636.8	678.0	813.9	785.1	986.8	816.6	645.1	627.2	614.9
72.5°	5464.0	1800.7	528.4	539.4	638.2	661.5	899.0	749.4	590.2	539.4	521.6
75°	3803.2	1130.9	440.6	429.6	461.2	505.1	701.4	621.7	509.2	455.7	439.2
77.5°	1636.0	580.6	344.5	339.0	307.4	350.0	538.0	518.8	426.9	365.1	355.5
80°	547.6	336.3	248.4	238.8	204.5	245.7	378.8	414.5	334.9	270.4	253.9
82.5°	274.5	194.9	157.8	142.7	137.3	155.1	223.7	258.0	232.0	186.7	157.8
85°	134.5	111.2	86.5	85.1	71.4	67.3	93.3	109.8	104.3	76.9	72.7
87.5°	49.4	43.9	27.5	22.0	13.7	9.6	5.5	5.5	4.1	4.1	4.1
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)