

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: P642652

Luminaire Tested: GWS-SA6D-735-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-735-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34719.1 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

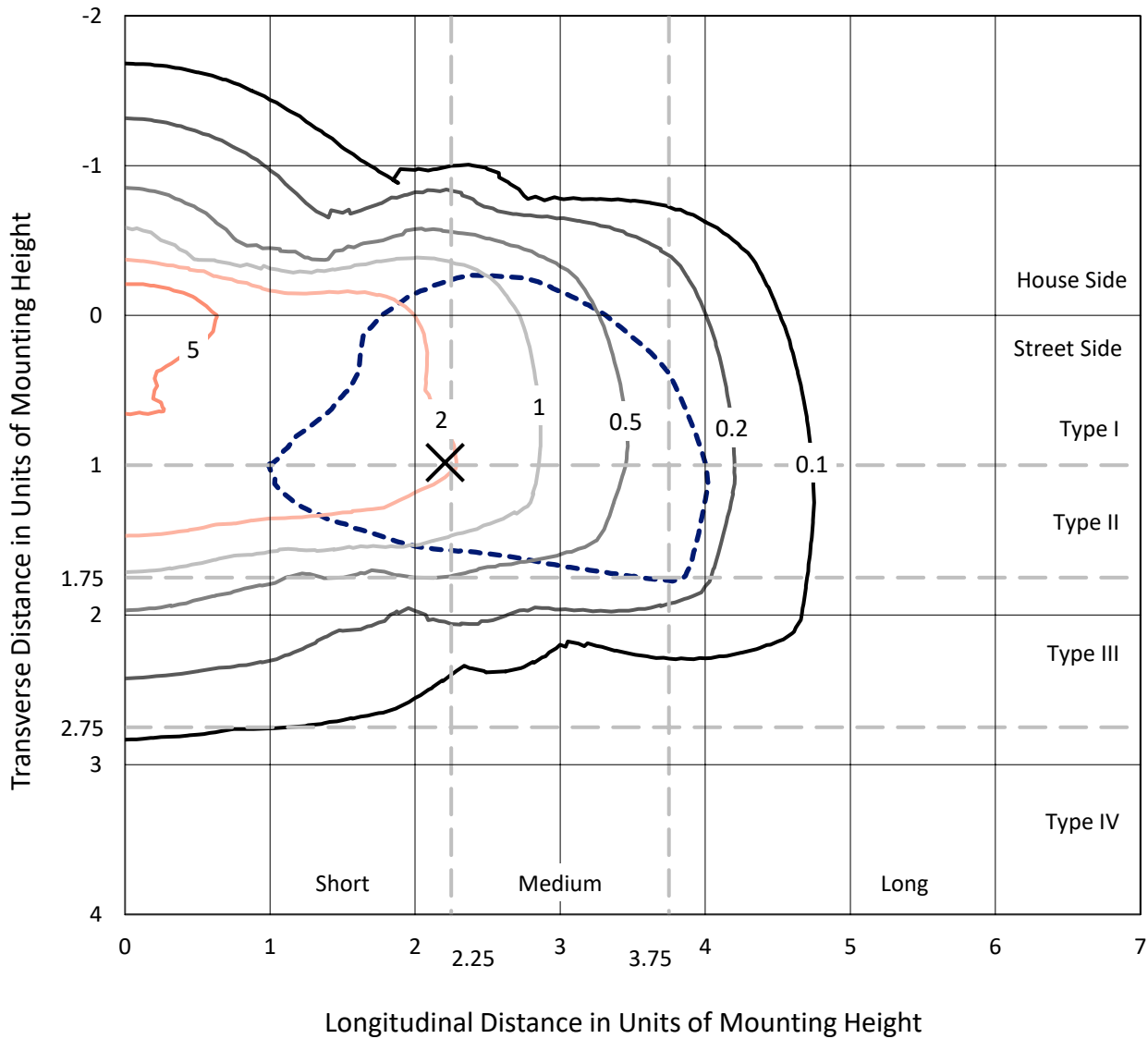
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

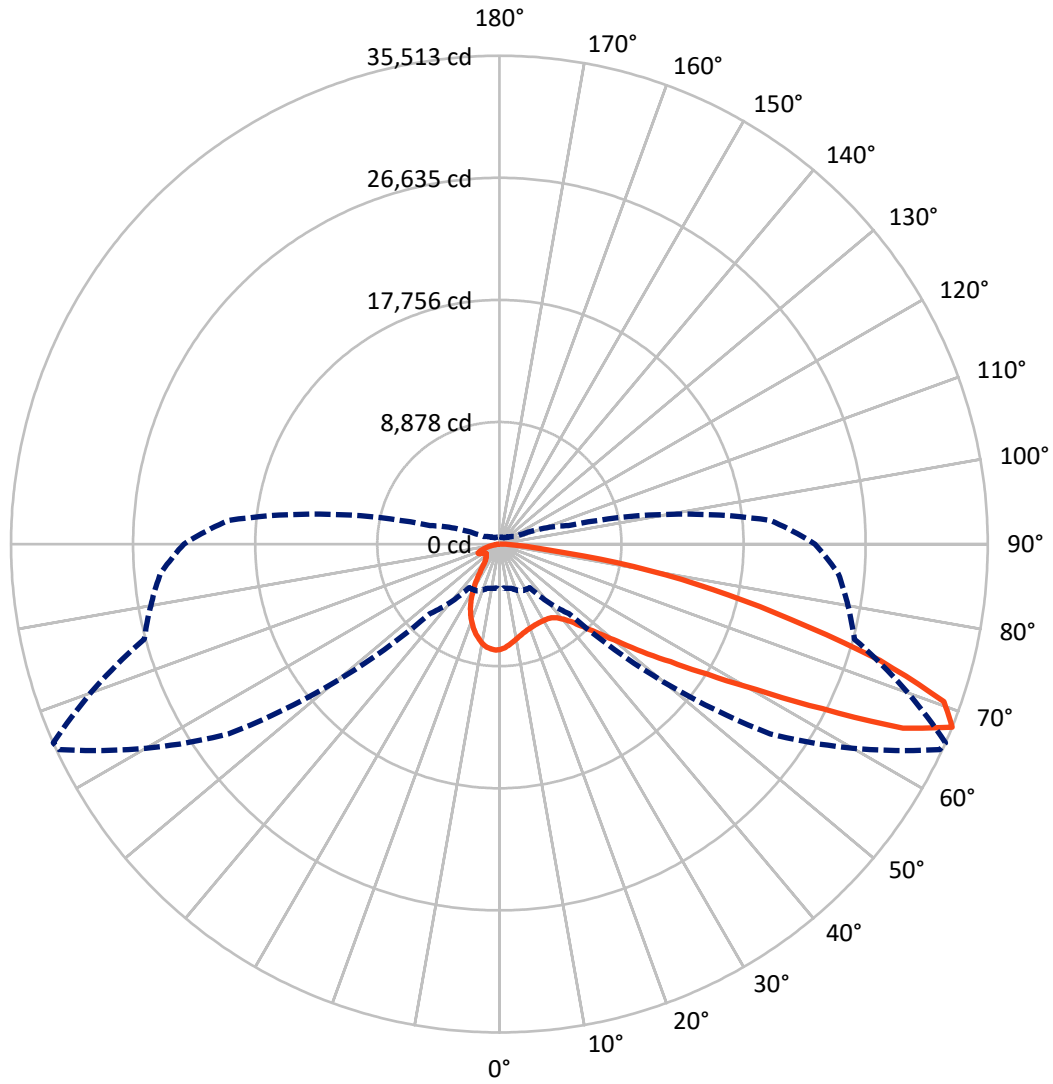
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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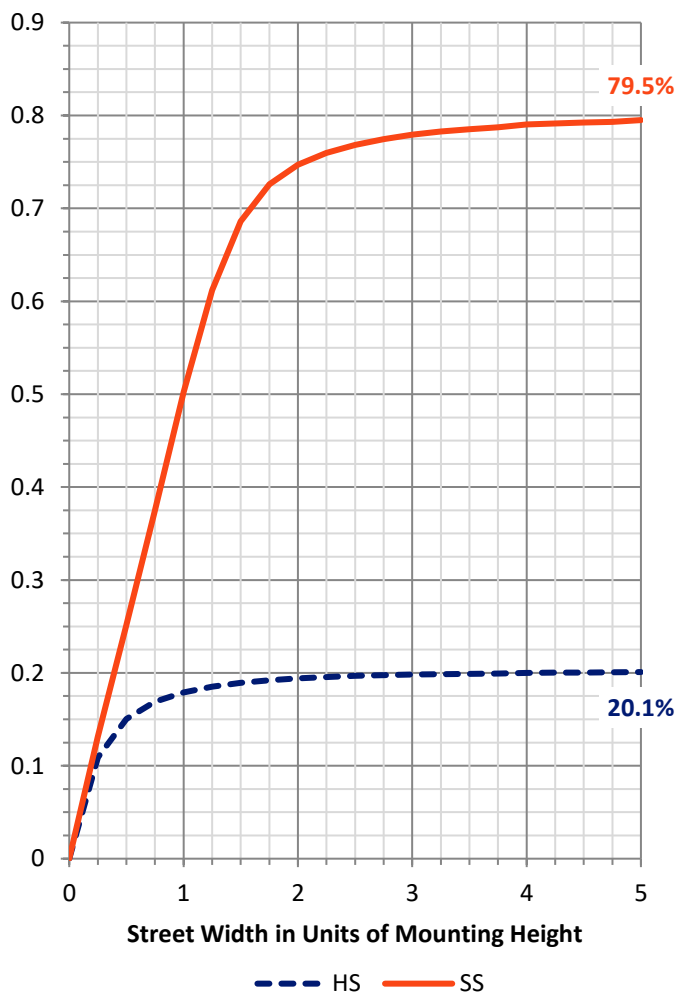
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7045.3	0.0	7045.3
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	27673.8	0.0	27673.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	34719.1	0.0	34719.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.3	1.9
10°-20°	1654.7	4.8
20°-30°	2274.5	6.6
30°-40°	3109.6	9.0
40°-50°	4711.9	13.6
50°-60°	7324.7	21.1
60°-70°	8917.7	25.7
70°-80°	5432.2	15.6
80°-90°	620.5	1.8
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°	34719.1	100.0
0°-180°	34719.1	100.0

Coefficient of Utilization



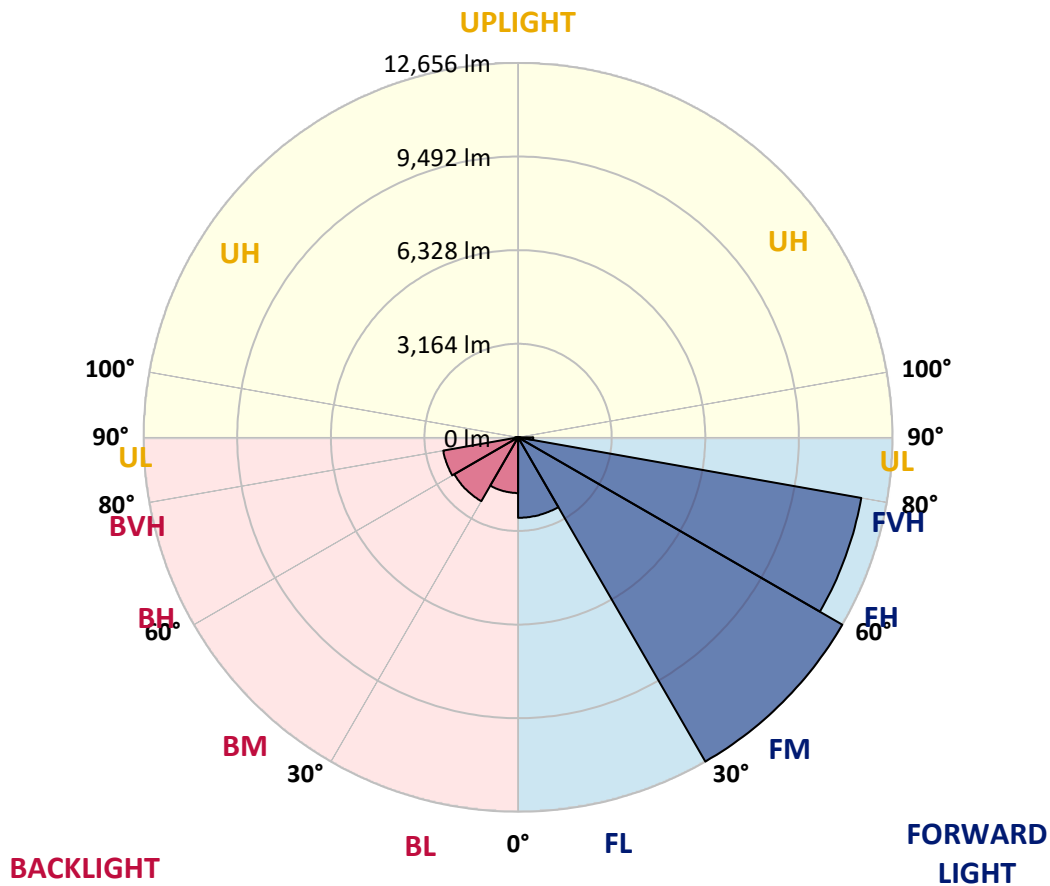
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2720.4	7.8			
FM (30°-60°)	12656.4	36.5			
FH (60°-80°)	11781.1	33.9			G4/12000
FVH (80°-90°)	515.9	1.5			G4/750
BL (0°-30°)	1882.1	5.4	B3/2500		
BM (30°-60°)	2489.7	7.2	B2/2500		
BH (60°-80°)	2568.8	7.4	B4/5000		G4/5000
BVH (80°-90°)	104.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7671.9	7671.9	7671.9	7671.9	7671.9	7671.9	7671.9	7671.9	7671.9	7671.9	7671.9
2.5°	7185.6	7211.0	7195.8	7292.0	7297.1	7418.7	7487.0	7545.3	7550.4	7626.3	7677.0
5°	6694.3	6709.5	6709.5	6800.6	6861.4	7023.5	7180.6	7347.7	7360.4	7542.8	7682.1
7.5°	6296.6	6311.8	6301.7	6423.3	6501.8	6681.6	6881.7	7137.5	7162.8	7456.6	7699.8
10°	5985.1	5980.0	6005.3	6116.8	6218.1	6433.4	6656.3	6947.5	6985.5	7357.9	7720.1
12.5°	5772.3	5777.4	5792.6	5909.1	6018.0	6230.8	6461.2	6777.8	6818.4	7243.9	7709.9
15°	5671.0	5660.9	5673.5	5779.9	5883.8	6071.2	6309.3	6636.0	6676.5	7142.6	7712.5
17.5°	5648.2	5640.6	5638.1	5714.1	5792.6	5967.3	6195.3	6527.1	6570.2	7076.7	7727.7
20°	5719.1	5709.0	5681.1	5714.1	5747.0	5893.9	6114.2	6448.6	6496.7	7033.7	7758.1
22.5°	5914.2	5896.4	5853.4	5812.8	5769.8	5858.4	6063.6	6390.3	6438.4	7005.8	7788.4
25°	6210.5	6195.3	6149.7	6058.5	5901.5	5886.3	6053.5	6365.0	6413.1	6985.5	7801.1
27.5°	6618.3	6595.5	6549.9	6418.2	6162.4	5990.1	6091.5	6362.5	6408.1	6962.7	7788.4
30°	7102.0	7086.9	7061.5	6902.0	6560.0	6210.5	6177.6	6382.7	6418.2	6950.1	7763.1
32.5°	7593.4	7578.2	7598.5	7522.5	7102.0	6575.2	6365.0	6438.4	6463.8	6947.5	7740.3
35°	8026.5	8044.3	8191.2	8203.8	7791.0	7069.1	6661.3	6567.6	6572.7	6998.2	7750.5
37.5°	8479.9	8548.3	8740.8	8905.4	8561.0	7722.6	7102.0	6810.8	6805.7	7127.4	7813.8
40°	9080.2	9110.6	9356.3	9665.3	9450.0	8619.2	7727.7	7208.4	7173.0	7390.8	7983.5
42.5°	9665.3	9738.7	10131.3	10485.9	10415.0	9629.8	8515.4	7803.6	7740.3	7856.8	8333.0
45°	10409.9	10480.8	10921.6	11377.5	11506.6	10772.1	9523.4	8649.6	8586.3	8558.4	8973.8
47.5°	11154.6	11228.0	11623.1	12281.7	12735.1	12200.6	10835.4	9766.6	9662.7	9553.8	9941.3
50°	11656.1	11742.2	12119.6	12909.8	13973.6	13983.7	12390.6	11230.6	11098.9	10926.6	11304.0
52.5°	11638.3	11694.1	12053.7	12965.5	14865.2	16032.8	14472.6	13094.7	12988.3	12613.5	12942.8
55°	10724.0	10807.6	11169.8	12309.5	14961.4	17975.5	17532.2	15293.2	15103.3	14432.1	14794.2
57.5°	8887.7	8958.6	9323.3	10729.1	14107.9	18970.9	21417.6	18094.5	17833.6	16412.7	16830.6
60°	6709.5	6623.3	6795.6	8026.5	12066.4	18996.2	24847.0	21893.8	21458.1	18530.2	18879.7
62.5°	5035.3	4949.1	4987.1	5334.1	8181.0	17461.3	26802.4	27091.1	26371.8	20921.2	20852.8
65°	3979.1	3930.9	4039.9	4277.9	4769.3	13297.3	26817.6	32711.5	32258.1	23692.1	22876.5
67.5°	3242.0	3211.6	3323.1	3763.8	3867.6	7145.1	24046.7	35335.5	35512.8	26726.4	24753.3
70°	2611.3	2565.8	2740.5	3320.5	3596.6	4323.5	17225.8	33998.1	34284.4	28534.8	24224.0
72.5°	1803.4	1805.9	1894.6	2689.9	3472.5	3733.4	9743.8	28309.4	28930.0	26896.1	21296.0
75°	1215.8	1225.9	1251.2	1775.5	3199.0	3621.9	5192.3	21432.8	21871.0	22230.6	17603.2
77.5°	734.5	739.6	797.8	1073.9	2206.1	3381.3	3518.1	15536.4	15880.8	14654.9	10911.4
80°	425.5	443.2	496.4	719.3	1489.3	2540.4	2722.8	9526.0	9916.0	6514.4	3467.4
82.5°	187.4	200.1	271.0	417.9	868.8	2160.5	2125.0	3763.8	3708.1	1816.0	1203.1
85°	32.9	40.5	58.3	131.7	319.1	1139.8	1648.9	1661.5	1562.8	688.9	499.0
87.5°	0.0	0.0	0.0	0.0	0.0	7.6	248.2	445.8	443.2	195.0	172.2
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°	7671.9	7671.9	7671.9	7671.9	7671.9	7671.9	7671.9	7671.9	7671.9	7671.9	7671.9
2.5°	7709.9	7641.5	7702.3	7709.9	7697.3	7687.1	7611.1	7545.3	7537.7	7466.8	7466.8
5°	7737.8	7674.5	7704.9	7646.6	7555.4	7461.7	7299.6	7188.2	7137.5	7046.3	7046.3
7.5°	7775.8	7709.9	7674.5	7530.1	7317.3	7112.2	6851.3	6633.5	6544.8	6415.7	6410.6
10°	7811.2	7727.7	7606.1	7324.9	6985.5	6658.8	6278.9	5969.9	5759.7	5605.1	5605.1
12.5°	7808.7	7699.8	7459.2	7043.8	6575.2	6101.6	5595.0	5129.0	4850.4	4609.7	4594.5
15°	7803.6	7654.2	7271.7	6717.1	6096.5	5440.5	4751.6	4143.7	3730.9	3495.3	3475.0
17.5°	7798.6	7596.0	7061.5	6344.7	5514.0	4619.9	3710.6	3052.1	2707.6	2563.2	2568.3
20°	7798.6	7530.1	6836.1	5916.7	4842.8	3637.1	2722.8	2244.1	2158.0	2165.6	2173.2
22.5°	7775.8	7449.0	6585.4	5450.6	4095.6	2674.7	2008.5	1846.4	1892.0	1962.9	1973.1
25°	7722.6	7314.8	6294.1	4933.9	3206.6	1947.7	1638.7	1608.3	1691.9	1780.6	1805.9
27.5°	7639.0	7160.3	5967.3	4328.6	2360.6	1565.3	1441.2	1438.6	1504.5	1570.4	1593.1
30°	7550.4	6988.1	5622.9	3654.9	1709.7	1362.7	1314.5	1314.5	1347.5	1388.0	1382.9
32.5°	7446.5	6813.3	5253.1	2953.3	1393.1	1248.7	1233.5	1225.9	1231.0	1246.2	1246.2
35°	7357.9	6658.8	4873.2	2211.2	1248.7	1185.4	1170.2	1152.4	1144.8	1134.7	1139.8
37.5°	7324.9	6537.2	4480.6	1666.6	1177.8	1139.8	1114.4	1089.1	1071.4	1066.3	1063.8
40°	7378.1	6486.6	4088.0	1372.8	1127.1	1091.6	1063.8	1030.9	1015.7	1015.7	1015.7
42.5°	7585.8	6524.6	3687.8	1241.1	1091.6	1051.1	1010.6	980.2	975.1	980.2	982.7
45°	7965.7	6671.5	3272.4	1175.2	1061.3	1010.6	962.5	939.7	939.7	944.7	944.7
47.5°	8644.5	7056.5	2862.1	1134.7	1030.9	977.7	927.0	904.2	901.7	906.8	906.8
50°	9819.8	7750.5	2492.3	1106.8	1008.1	952.3	901.7	871.3	863.7	861.2	861.2
52.5°	11301.5	8953.5	2256.7	1086.6	980.2	924.5	873.8	833.3	818.1	810.5	810.5
55°	13092.2	10556.8	2256.7	1071.4	944.7	891.6	833.3	792.8	770.0	759.8	759.8
57.5°	15121.0	12423.5	2646.8	1058.7	916.9	853.6	790.2	749.7	724.4	709.2	709.2
60°	17185.2	14396.6	3611.8	1041.0	891.6	805.4	742.1	704.1	671.2	653.5	650.9
62.5°	19325.5	16569.8	4883.3	1051.1	873.8	759.8	691.5	648.4	620.5	602.8	600.3
65°	21285.9	18639.1	5995.2	1129.6	876.4	719.3	633.2	595.2	572.4	549.6	547.1
67.5°	22950.0	19781.4	5215.1	1289.2	929.5	671.2	575.0	537.0	516.7	501.5	499.0
70°	21784.9	18038.8	2958.3	1388.0	1003.0	620.5	509.1	483.8	463.5	453.4	450.8
72.5°	18628.9	15273.0	1978.1	1225.9	914.4	554.7	448.3	428.0	412.9	400.2	397.7
75°	15090.6	12112.0	1512.1	1005.5	711.7	450.8	385.0	369.8	354.6	341.9	339.4
77.5°	8928.2	6998.2	1114.4	795.3	501.5	352.1	319.1	306.5	291.3	281.1	278.6
80°	2849.4	2431.5	706.7	547.1	331.8	271.0	245.7	235.6	220.4	207.7	205.2
82.5°	1086.6	939.7	374.9	278.6	220.4	184.9	164.6	154.5	144.4	131.7	129.2
85°	481.2	450.8	207.7	149.4	119.0	91.2	81.1	76.0	63.3	53.2	50.7
87.5°	169.7	169.7	88.6	43.1	25.3	12.7	7.6	2.5	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)