

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: P635877

Luminaire Tested: GWS-SA3E-760-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-760-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16710.2 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

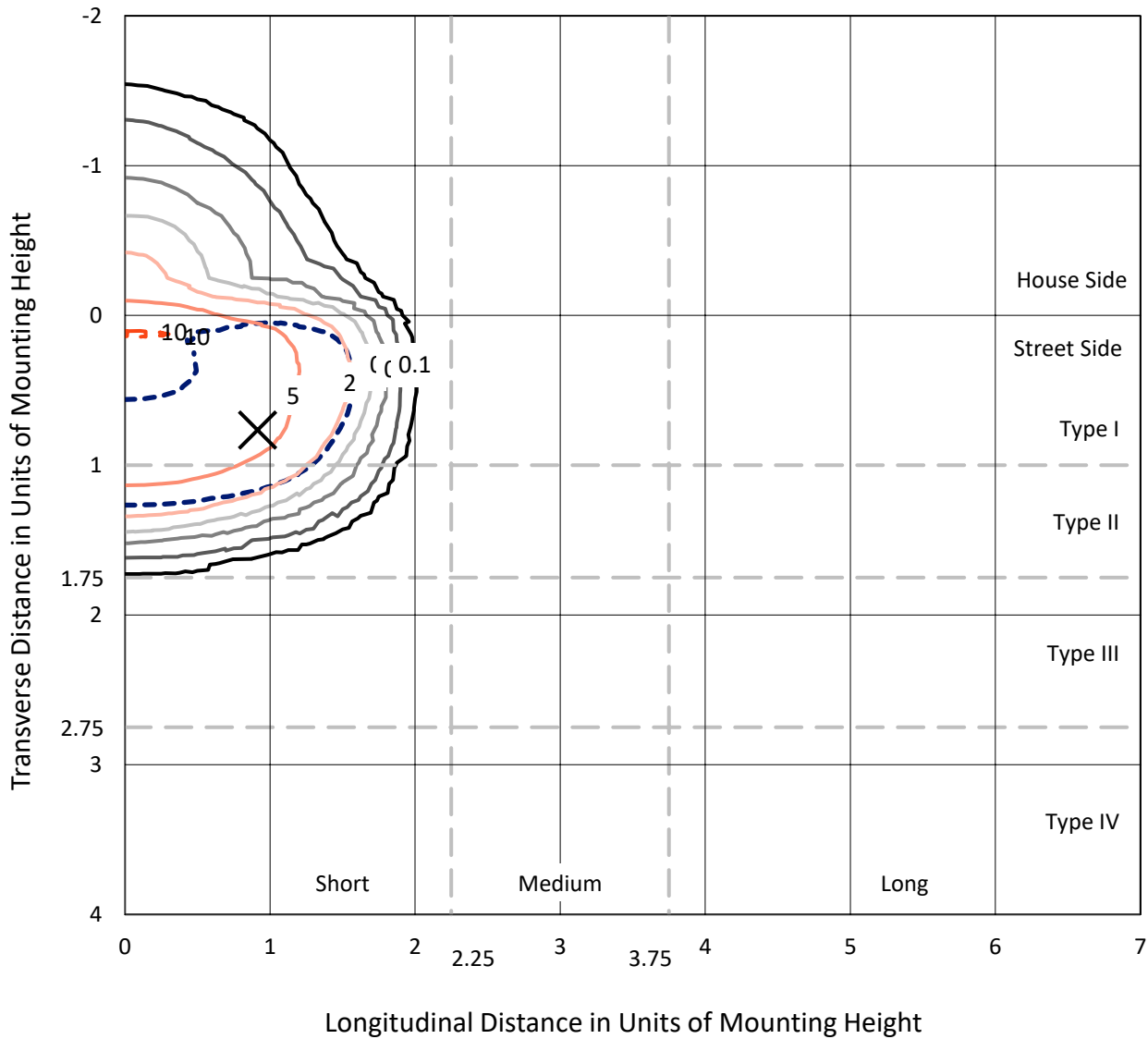
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P635877
 CATALOG NUMBER: GWS-SA3E-760-U-AFL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

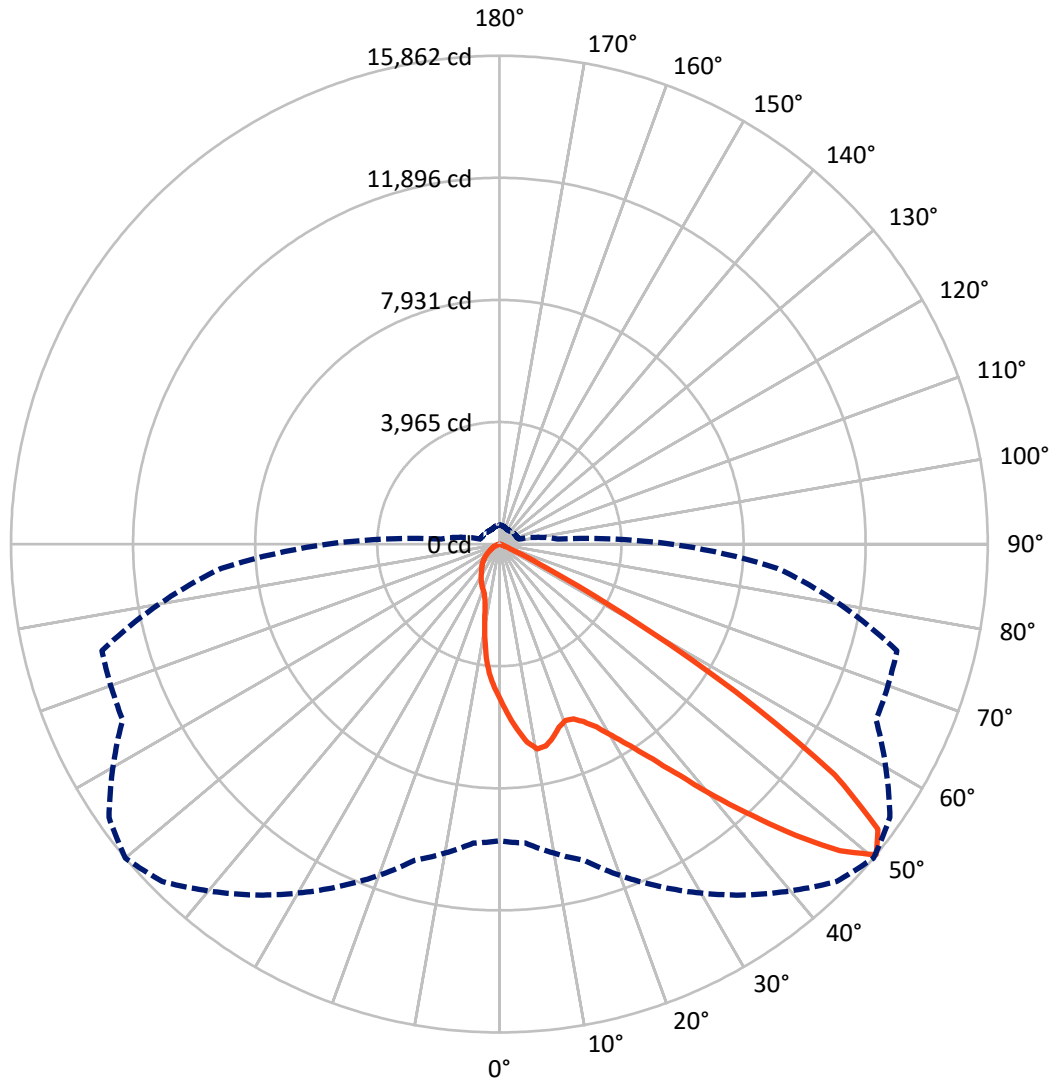
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - N/A

REPORT NUMBER: P635877
CATALOG NUMBER: GWS-SA3E-760-U-AFL-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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 CATALOG NUMBER: GWS-SA3E-760-U-AFL-W-GRSBK

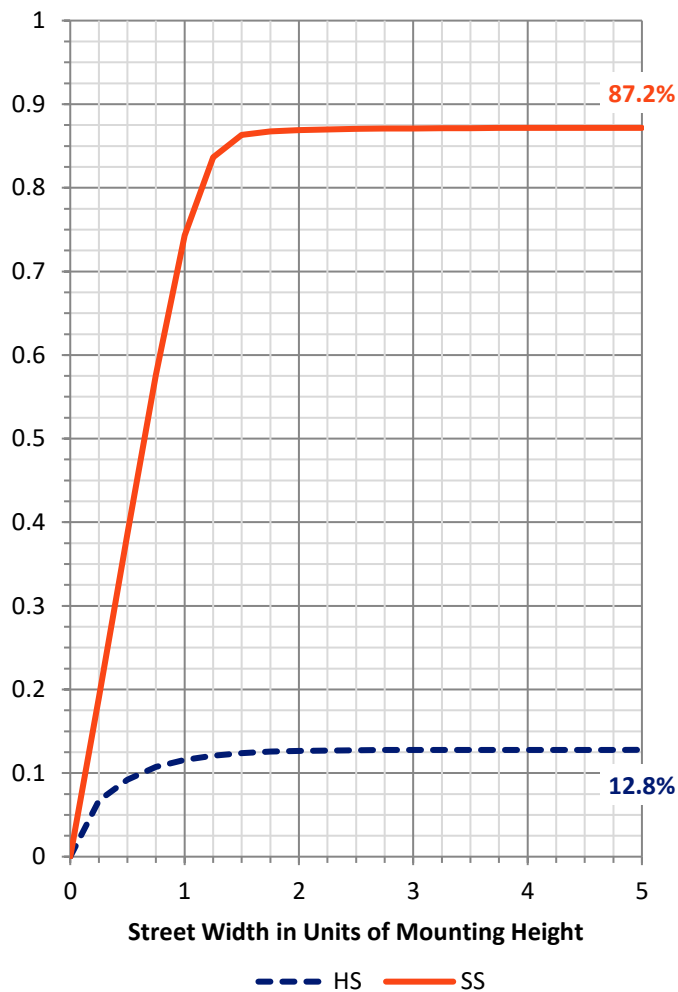
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2147.0	0.0	2147.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	14563.2	0.0	14563.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	16710.2	0.0	16710.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.6	2.8
10°-20°	1211.7	7.3
20°-30°	1999.7	12.0
30°-40°	3299.9	19.7
40°-50°	5221.2	31.2
50°-60°	3953.1	23.7
60°-70°	494.7	3.0
70°-80°	56.0	0.3
80°-90°	4.3	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°	16710.2	100.0
0°-180°	16710.2	100.0

Coefficient of Utilization



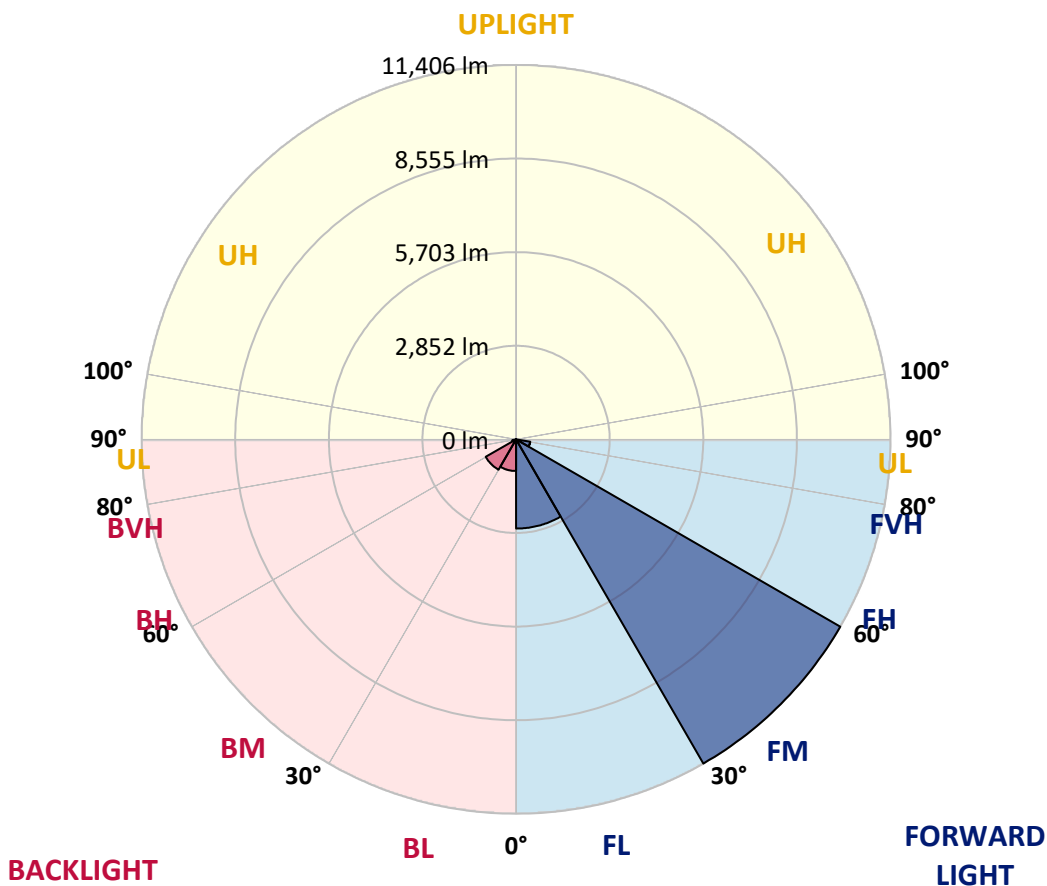
REPORT NUMBER: P635877

CATALOG NUMBER: GWS-SA3E-760-U-AFL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2717.3	16.3			
FM (30°-60°)	11406.5	68.3			
FH (60°-80°)	437.4	2.6			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	963.7	5.8	B2/1000		
BM (30°-60°)	1067.8	6.4	B2/2500		
BH (60°-80°)	113.3	0.7	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





REPORT NUMBER: P635877

CATALOG NUMBER: GWS-SA3E-760-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	5062.5	5062.5	5062.5	5062.5	5062.5	5062.5	5062.5	5062.5	5062.5	5062.5	5062.5
2.5°	5768.7	5814.8	5802.1	5741.7	5676.5	5630.3	5558.8	5536.5	5374.3	5261.3	5142.1
5°	6465.3	6479.7	6463.7	6390.6	6276.1	6166.3	6048.6	5980.2	5708.3	5463.3	5213.6
7.5°	6632.3	6614.8	6645.1	6681.6	6665.7	6618.0	6494.0	6419.2	6094.8	5695.5	5317.0
10°	6110.7	6070.9	6183.8	6373.1	6571.9	6796.2	6764.3	6770.7	6471.7	5988.2	5452.2
12.5°	5418.8	5402.9	5487.2	5706.7	6096.3	6605.3	6727.8	6932.9	6816.8	6304.7	5606.5
15°	5115.0	5123.0	5173.9	5312.2	5592.2	6225.2	6519.4	6890.0	7125.4	6611.7	5776.7
17.5°	5161.1	5189.8	5188.2	5234.3	5404.5	5911.8	6255.4	6754.8	7364.0	6964.8	5972.3
20°	5474.5	5503.1	5460.1	5425.2	5482.4	5832.3	6117.0	6618.0	7524.6	7321.0	6179.0
22.5°	5943.7	5977.1	5875.3	5775.1	5738.5	5962.7	6169.5	6562.4	7647.1	7647.1	6363.5
25°	6511.5	6557.6	6400.1	6222.0	6120.2	6237.9	6393.8	6688.0	7772.7	7939.7	6489.2
27.5°	7146.1	7147.7	7012.5	6812.1	6621.2	6635.5	6729.4	6971.1	7911.1	8254.6	6587.8
30°	7860.2	7865.0	7685.2	7445.1	7204.9	7139.7	7219.2	7402.1	8199.0	8650.7	6724.6
32.5°	8782.7	8804.9	8547.3	8194.2	7882.5	7760.0	7806.1	7998.6	8657.0	9146.9	6929.8
35°	10029.6	10053.5	9673.4	9207.3	8711.1	8526.6	8572.7	8766.8	9320.3	9851.5	7257.4
37.5°	11260.7	11292.5	10907.6	10473.4	9792.6	9487.3	9535.0	9719.5	10315.9	10824.9	7782.3
40°	12111.6	12154.5	12035.2	11742.6	11111.2	10710.4	10767.6	10834.4	11411.8	11989.1	8463.0
42.5°	12560.1	12620.5	12671.4	12820.9	12488.5	12152.9	12055.9	12060.7	12526.7	13175.6	9170.8
45°	12587.1	12646.0	12906.8	13484.2	13737.1	13667.1	13490.5	13371.2	13377.6	13966.1	9612.9
47.5°	11712.4	11822.1	12310.4	13441.2	14392.3	14972.9	14883.8	14600.7	13735.5	14018.6	9565.2
50°	9640.0	9748.1	10635.6	12262.7	13915.2	15494.5	15861.9	15481.8	13501.7	13364.9	9073.7
52.5°	7001.3	7012.5	7588.2	9488.9	11981.2	14532.3	15397.5	15360.9	13145.4	12572.8	8402.6
55°	3325.7	3286.0	3933.3	5355.2	8286.4	11753.7	13212.2	13625.7	12639.6	12000.2	7882.5
57.5°	968.6	987.7	1275.6	2089.9	4144.8	7511.9	9048.3	9818.1	10374.8	9865.8	6113.8
60°	434.2	435.8	485.1	636.2	1380.5	3494.3	4677.6	5630.3	6202.9	5748.0	3033.1
62.5°	314.9	316.5	335.6	359.5	469.2	1183.3	1754.3	2338.0	2381.0	1558.7	768.2
65°	262.4	262.4	265.6	265.6	281.5	423.1	532.8	687.1	578.9	429.4	300.6
67.5°	211.5	213.1	216.3	216.3	211.5	211.5	229.0	251.3	268.8	332.4	276.7
70°	165.4	163.8	163.8	165.4	160.6	136.8	147.9	168.6	184.5	259.2	240.2
72.5°	128.8	130.4	128.8	122.5	111.3	81.1	87.5	109.7	117.7	162.2	162.2
75°	97.0	98.6	92.2	70.0	46.1	25.4	33.4	54.1	68.4	79.5	58.8
77.5°	12.7	12.7	9.5	9.5	8.0	9.5	9.5	12.7	19.1	19.1	14.3
80°	1.6	1.6	1.6	3.2	4.8	6.4	6.4	6.4	6.4	8.0	8.0
82.5°	1.6	1.6	1.6	1.6	4.8	4.8	6.4	6.4	6.4	6.4	6.4
85°	0.0	0.0	0.0	1.6	3.2	4.8	4.8	6.4	6.4	6.4	6.4
87.5°	0.0	0.0	0.0	1.6	3.2	4.8	4.8	4.8	6.4	6.4	6.4
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: P635877

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5062.5	5062.5	5062.5	5062.5	5062.5	5062.5	5062.5	5062.5	5062.5	5062.5	5062.5
2.5°	5070.5	4978.2	4866.9	4790.6	4682.4	4610.8	4509.0	4440.6	4381.8	4335.7	4361.1
5°	5072.1	4925.7	4698.3	4504.3	4292.7	4098.7	3890.3	3726.5	3578.6	3511.8	3548.4
7.5°	5103.9	4893.9	4545.6	4200.5	3794.9	3394.1	3018.7	2713.4	2562.3	2490.7	2513.0
10°	5165.9	4879.6	4375.4	3802.9	3144.4	2597.3	2233.0	2026.3	1942.0	1897.5	1905.4
12.5°	5223.2	4870.1	4154.4	3279.6	2481.2	2015.1	1825.9	1797.3	1814.7	1816.3	1814.7
15°	5301.1	4852.6	3880.8	2742.0	1984.9	1741.6	1746.4	1787.7	1829.1	1841.8	1838.6
17.5°	5383.8	4825.5	3527.7	2226.7	1684.3	1662.1	1717.7	1773.4	1814.7	1821.1	1822.7
20°	5469.7	4769.9	3125.3	1817.9	1544.4	1601.6	1663.7	1705.0	1735.2	1744.8	1747.9
22.5°	5509.5	4652.2	2660.9	1525.3	1450.5	1526.9	1573.0	1627.1	1636.6	1601.6	1608.0
25°	5488.8	4453.4	2207.6	1328.1	1356.7	1433.0	1501.4	1474.4	1434.6	1409.2	1417.1
27.5°	5423.6	4189.3	1763.9	1183.3	1256.5	1353.5	1361.5	1331.2	1324.9	1304.2	1310.6
30°	5353.6	3885.6	1418.7	1067.2	1154.7	1256.5	1232.6	1243.8	1245.4	1221.5	1229.4
32.5°	5310.6	3567.5	1129.2	989.3	1089.5	1108.6	1156.3	1178.6	1180.1	1124.5	1134.0
35°	5325.0	3254.1	955.9	925.7	1029.0	1024.3	1091.1	1103.8	1011.6	935.2	943.2
37.5°	5441.1	2964.7	857.3	876.4	924.1	960.7	1011.6	927.3	906.6	871.6	876.4
40°	5657.4	2718.1	798.4	846.1	852.5	911.4	833.4	844.5	846.1	823.9	828.6
42.5°	5910.3	2513.0	763.4	828.6	812.7	822.3	744.3	766.6	790.5	780.9	782.5
45°	6037.5	2312.6	733.2	768.2	773.0	682.3	664.8	688.7	718.9	723.7	725.3
47.5°	5924.6	2121.7	701.4	680.7	712.5	621.9	601.2	609.2	644.1	663.2	666.4
50°	5579.4	1902.2	653.7	602.8	585.3	558.3	539.2	540.8	580.5	613.9	620.3
52.5°	5094.3	1673.2	575.8	510.5	470.8	491.5	496.2	486.7	523.3	556.7	563.0
55°	4623.6	1386.9	456.5	415.1	378.5	423.1	435.8	423.1	434.2	456.5	458.1
57.5°	3255.7	784.1	349.9	343.5	313.3	362.6	383.3	364.2	345.1	359.5	362.6
60°	1509.4	410.3	268.8	268.8	260.8	311.7	346.7	319.7	283.1	289.5	294.2
62.5°	472.4	259.2	197.2	186.1	213.1	265.6	294.2	267.2	224.3	224.3	230.6
65°	267.2	222.7	155.9	143.1	173.4	213.1	230.6	202.0	163.8	160.6	160.6
67.5°	248.1	211.5	138.4	116.1	122.5	136.8	143.1	124.1	112.9	111.3	112.9
70°	205.2	176.5	111.3	79.5	74.8	73.2	76.3	71.6	68.4	70.0	74.8
72.5°	127.2	106.6	70.0	47.7	41.4	39.8	39.8	39.8	38.2	38.2	38.2
75°	46.1	39.8	31.8	23.9	20.7	19.1	19.1	20.7	19.1	17.5	15.9
77.5°	14.3	12.7	12.7	12.7	11.1	9.5	8.0	8.0	6.4	4.8	4.8
80°	8.0	8.0	8.0	8.0	6.4	6.4	4.8	3.2	1.6	1.6	0.0
82.5°	8.0	8.0	8.0	6.4	6.4	6.4	4.8	3.2	1.6	0.0	0.0
85°	6.4	6.4	6.4	6.4	6.4	6.4	4.8	3.2	1.6	0.0	0.0
87.5°	6.4	6.4	6.4	6.4	6.4	6.4	4.8	3.2	1.6	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)