

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: P641157

Luminaire Tested: GWS-SA5F-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641157
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-SA5F-735-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31004.2 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

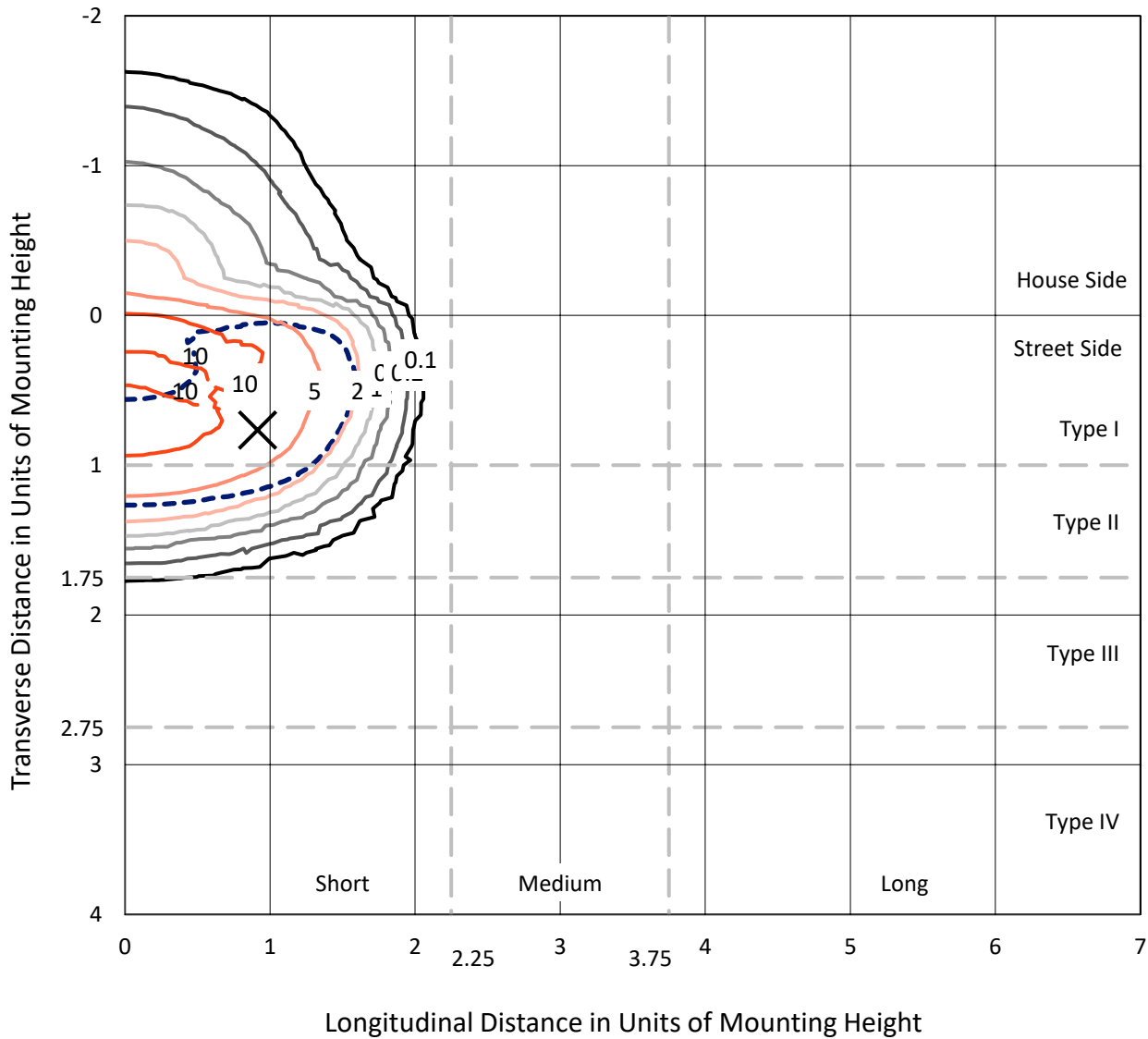
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641157
 CATALOG NUMBER: GWS-SA5F-735-U-AFL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

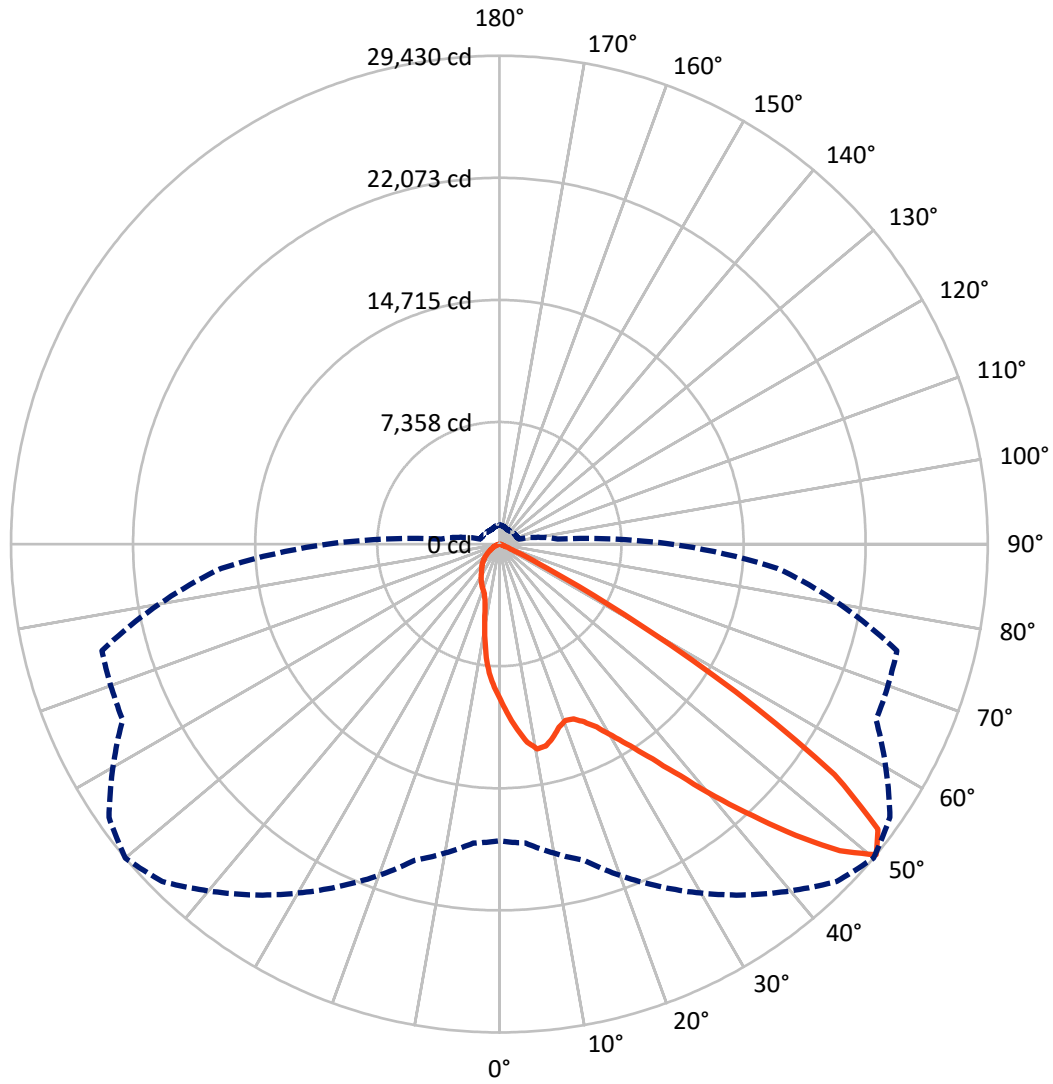
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - N/A

REPORT NUMBER: P641157
CATALOG NUMBER: GWS-SA5F-735-U-AFL-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P641157
 CATALOG NUMBER: GWS-SA5F-735-U-AFL-W-GRSBK

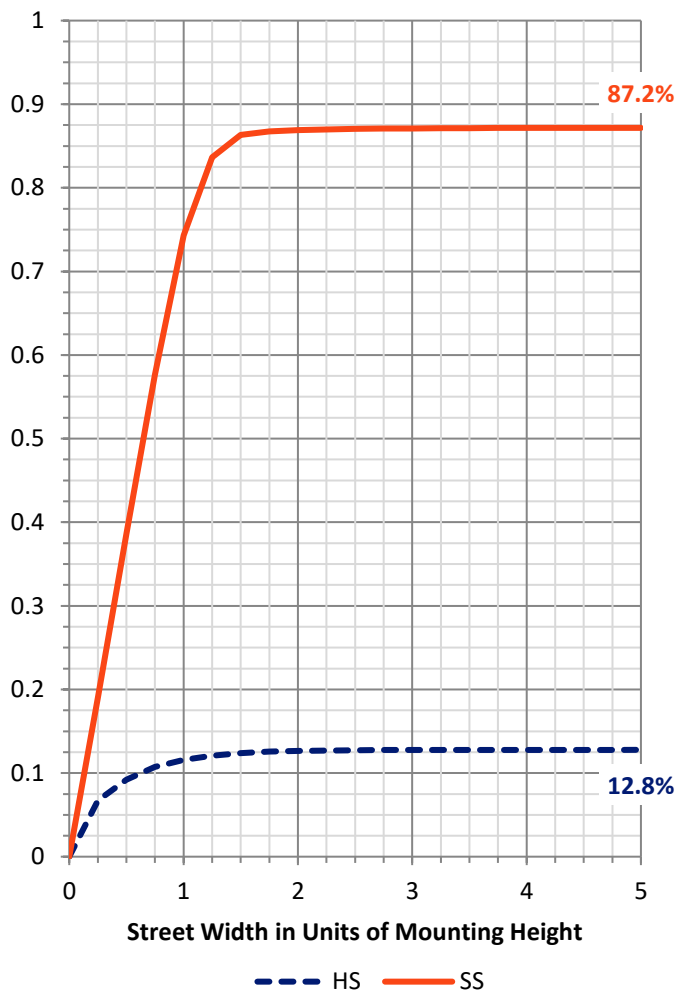
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3983.6	0.0	3983.6
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	27020.7	0.0	27020.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	31004.2	0.0	31004.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	871.3	2.8
10°-20°	2248.1	7.3
20°-30°	3710.2	12.0
30°-40°	6122.7	19.7
40°-50°	9687.5	31.2
50°-60°	7334.6	23.7
60°-70°	918.0	3.0
70°-80°	103.9	0.3
80°-90°	8.0	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°	31004.2	100.0
0°-180°	31004.2	100.0

Coefficient of Utilization



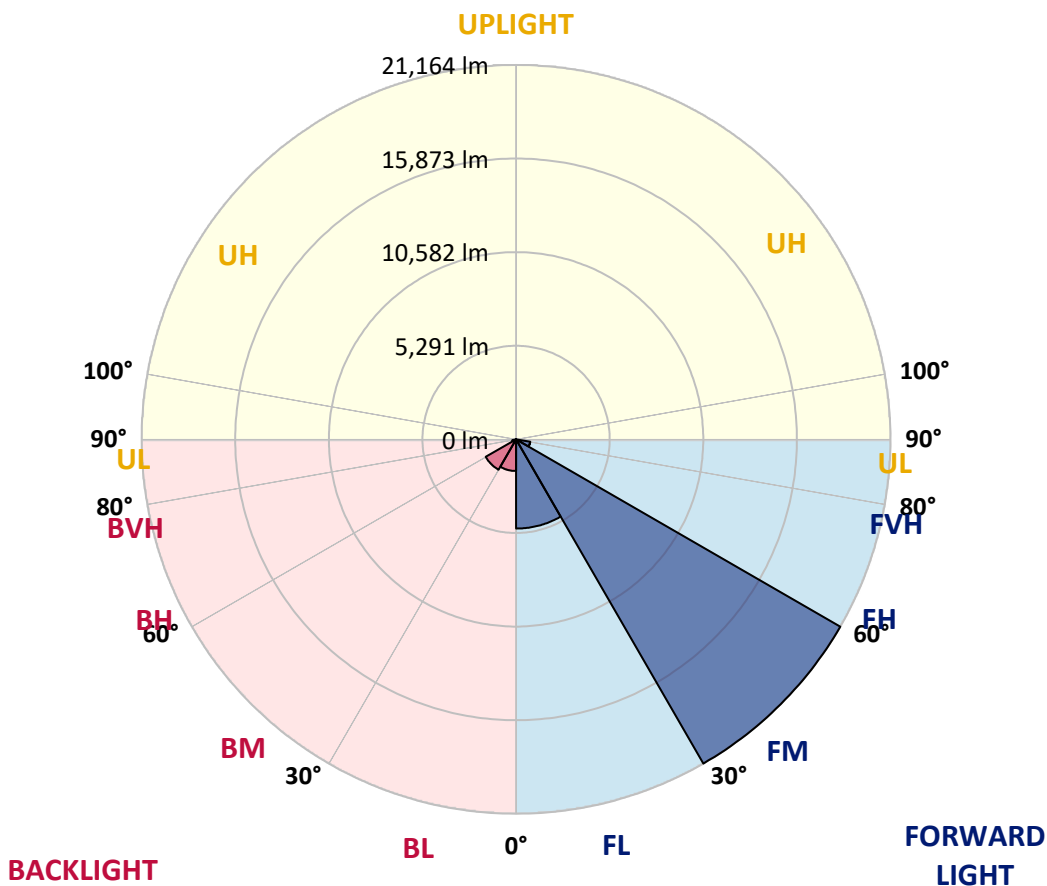
REPORT NUMBER: P641157

CATALOG NUMBER: GWS-SA5F-735-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°)	5041.7	16.3			
FM (30°-60°)	21163.6	68.3			
FH (60°-80°)	811.6	2.6			G1/1800
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	1788.0	5.8	B3/2500		
BM (30°-60°)	1981.1	6.4	B2/2500		
BH (60°-80°)	210.2	0.7	B1/500		G1/500
BVH (80°-90°)	4.2	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: P641157

CATALOG NUMBER: GWS-SA5F-735-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	9393.0	9393.0	9393.0	9393.0	9393.0	9393.0	9393.0	9393.0	9393.0	9393.0	9393.0
2.5°	10703.3	10788.9	10765.3	10653.1	10532.1	10446.5	10313.8	10272.4	9971.4	9761.9	9540.6
5°	11995.8	12022.4	11992.9	11857.1	11644.7	11441.0	11222.7	11095.8	10591.1	10136.7	9673.4
7.5°	12305.7	12273.2	12329.3	12397.2	12367.7	12279.1	12048.9	11910.2	11308.2	10567.5	9865.2
10°	11337.8	11264.0	11473.5	11824.7	12193.5	12609.6	12550.6	12562.4	12007.6	11110.5	10116.0
12.5°	10054.1	10024.6	10181.0	10588.2	11311.2	12255.5	12482.7	12863.4	12648.0	11697.8	10402.3
15°	9490.4	9505.2	9599.6	9856.3	10375.7	11550.2	12096.2	12783.7	13220.5	12267.3	10718.0
17.5°	9576.0	9629.1	9626.2	9711.7	10027.5	10968.9	11606.3	12532.9	13663.1	12922.4	11081.0
20°	10157.3	10210.5	10130.8	10065.9	10172.1	10821.3	11349.6	12279.1	13961.2	13583.5	11464.6
22.5°	11027.9	11089.9	10901.0	10715.1	10647.2	11063.3	11446.9	12175.8	14188.4	14188.4	11807.0
25°	12081.4	12167.0	11874.8	11544.3	11355.5	11573.8	11863.0	12409.0	14421.5	14731.4	12040.1
27.5°	13258.9	13261.8	13011.0	12639.1	12285.0	12311.6	12485.7	12934.2	14678.3	15315.7	12223.1
30°	14583.9	14592.7	14259.2	13813.6	13368.0	13247.0	13394.6	13734.0	15212.4	16050.5	12476.8
32.5°	16295.4	16336.7	15858.7	15203.6	14625.2	14397.9	14483.5	14840.6	16062.3	16971.2	12857.5
35°	18609.0	18653.3	17948.0	17083.4	16162.6	15820.3	15905.9	16265.9	17292.9	18278.5	13465.4
37.5°	20893.1	20952.1	20238.0	19432.3	18169.3	17602.7	17691.3	18033.6	19140.2	20084.5	14439.3
40°	22471.9	22551.6	22330.2	21787.2	20615.7	19872.0	19978.3	20102.2	21173.4	22244.7	15702.3
42.5°	23304.1	23416.2	23510.6	23788.0	23171.3	22548.6	22368.6	22377.4	23242.1	24446.1	17015.5
45°	23354.2	23463.4	23947.4	25018.6	25487.8	25358.0	25030.4	24809.1	24820.9	25912.8	17835.9
47.5°	21731.2	21934.8	22840.8	24938.9	26703.6	27780.7	27615.5	27090.2	25484.9	26010.1	17747.3
50°	17886.0	18086.7	19733.4	22752.2	25818.3	28748.7	29430.3	28725.1	25051.1	24797.3	16835.5
52.5°	12990.3	13011.0	14079.2	17605.7	22229.9	26963.3	28568.7	28500.8	24390.0	23327.7	15590.1
55°	6170.5	6096.8	7297.8	9936.0	15374.7	21807.9	24514.0	25281.2	23451.6	22265.3	14625.2
57.5°	1797.2	1832.6	2366.7	3877.6	7690.3	13937.6	16788.3	18216.5	19249.4	18305.1	11343.7
60°	805.6	808.6	900.1	1180.4	2561.5	6483.4	8678.9	10446.5	11508.9	10664.9	5627.6
62.5°	584.3	587.2	622.7	666.9	870.5	2195.5	3255.0	4338.0	4417.7	2892.0	1425.3
65°	486.9	486.9	492.8	492.8	522.3	785.0	988.6	1274.8	1074.2	796.8	557.7
67.5°	392.5	395.4	401.3	401.3	392.5	392.5	424.9	466.3	498.7	616.8	513.5
70°	306.9	304.0	304.0	306.9	298.1	253.8	274.4	312.8	342.3	481.0	445.6
72.5°	239.0	242.0	239.0	227.2	206.6	150.5	162.3	203.6	218.4	301.0	301.0
75°	180.0	183.0	171.2	129.8	85.6	47.2	62.0	100.3	126.9	147.6	109.2
77.5°	23.6	23.6	17.7	17.7	14.8	17.7	17.7	23.6	35.4	35.4	26.6
80°	3.0	3.0	3.0	5.9	8.9	11.8	11.8	11.8	11.8	14.8	14.8
82.5°	3.0	3.0	3.0	3.0	8.9	8.9	11.8	11.8	11.8	11.8	11.8
85°	0.0	0.0	0.0	3.0	5.9	8.9	8.9	11.8	11.8	11.8	11.8
87.5°	0.0	0.0	0.0	3.0	5.9	8.9	8.9	8.9	11.8	11.8	11.8
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: P641157
 CATALOG NUMBER: GWS-SA5F-735-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9393.0	9393.0	9393.0	9393.0	9393.0	9393.0	9393.0	9393.0	9393.0	9393.0	9393.0
2.5°	9407.8	9236.6	9030.1	8888.4	8687.8	8555.0	8366.1	8239.2	8130.0	8044.4	8091.6
5°	9410.7	9139.3	8717.3	8357.2	7964.8	7604.7	7218.2	6914.2	6639.8	6515.8	6583.7
7.5°	9469.8	9080.2	8434.0	7793.6	7041.1	6297.4	5601.0	5034.4	4754.1	4621.3	4662.6
10°	9584.9	9053.7	8118.2	7055.8	5834.1	4819.0	4143.2	3759.6	3603.2	3520.5	3535.3
12.5°	9691.1	9036.0	7708.0	6085.0	4603.6	3738.9	3387.8	3334.6	3367.1	3370.0	3367.1
15°	9835.7	9003.5	7200.4	5087.5	3682.9	3231.3	3240.2	3316.9	3393.7	3417.3	3411.4
17.5°	9989.1	8953.3	6545.3	4131.4	3125.1	3083.8	3187.1	3290.4	3367.1	3378.9	3381.8
20°	10148.5	8850.1	5798.7	3373.0	2865.4	2971.7	3086.7	3163.5	3219.5	3237.2	3243.2
22.5°	10222.3	8631.7	4937.0	2830.0	2691.3	2833.0	2918.5	3018.9	3036.6	2971.7	2983.5
25°	10183.9	8262.8	4096.0	2464.1	2517.2	2658.9	2785.7	2735.6	2661.8	2614.6	2629.3
27.5°	10062.9	7772.9	3272.7	2195.5	2331.3	2511.3	2526.1	2470.0	2458.2	2419.8	2431.6
30°	9933.1	7209.3	2632.3	1980.1	2142.4	2331.3	2287.0	2307.7	2310.6	2266.4	2281.1
32.5°	9853.4	6619.1	2095.2	1835.5	2021.4	2056.8	2145.4	2186.7	2189.6	2086.4	2104.1
35°	9880.0	6037.8	1773.6	1717.5	1909.3	1900.4	2024.4	2048.0	1876.8	1735.2	1749.9
37.5°	10095.4	5500.7	1590.6	1626.0	1714.5	1782.4	1876.8	1720.4	1682.1	1617.1	1626.0
40°	10496.7	5043.3	1481.4	1569.9	1581.7	1690.9	1546.3	1567.0	1569.9	1528.6	1537.5
42.5°	10965.9	4662.6	1416.5	1537.5	1508.0	1525.7	1381.1	1422.4	1466.6	1448.9	1451.9
45°	11202.0	4290.8	1360.4	1425.3	1434.2	1266.0	1233.5	1277.8	1333.9	1342.7	1345.7
47.5°	10992.5	3936.6	1301.4	1263.0	1322.0	1153.8	1115.5	1130.2	1195.2	1230.6	1236.5
50°	10352.1	3529.4	1212.9	1118.4	1086.0	1035.8	1000.4	1003.3	1077.1	1139.1	1150.9
52.5°	9452.1	3104.5	1068.3	947.3	873.5	911.9	920.7	903.0	970.9	1032.9	1044.7
55°	8578.6	2573.3	846.9	770.2	702.3	785.0	808.6	785.0	805.6	846.9	849.9
57.5°	6040.7	1454.8	649.2	637.4	581.3	672.8	711.2	675.8	640.4	666.9	672.8
60°	2800.5	761.4	498.7	498.7	484.0	578.4	643.3	593.2	525.3	537.1	545.9
62.5°	876.4	481.0	365.9	345.3	395.4	492.8	545.9	495.8	416.1	416.1	427.9
65°	495.8	413.1	289.2	265.6	321.7	395.4	427.9	374.8	304.0	298.1	298.1
67.5°	460.4	392.5	256.7	215.4	227.2	253.8	265.6	230.2	209.5	206.6	209.5
70°	380.7	327.6	206.6	147.6	138.7	135.7	141.6	132.8	126.9	129.8	138.7
72.5°	236.1	197.7	129.8	88.5	76.7	73.8	73.8	73.8	70.8	70.8	70.8
75°	85.6	73.8	59.0	44.3	38.4	35.4	35.4	38.4	35.4	32.5	29.5
77.5°	26.6	23.6	23.6	23.6	20.7	17.7	14.8	14.8	11.8	8.9	8.9
80°	14.8	14.8	14.8	14.8	11.8	11.8	8.9	5.9	3.0	3.0	0.0
82.5°	14.8	14.8	14.8	11.8	11.8	11.8	8.9	5.9	3.0	0.0	0.0
85°	11.8	11.8	11.8	11.8	11.8	11.8	8.9	5.9	3.0	0.0	0.0
87.5°	11.8	11.8	11.8	11.8	11.8	11.8	8.9	5.9	3.0	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)