

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: P641328

Luminaire Tested: GWS-SA5F-760-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-760-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43348.9 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

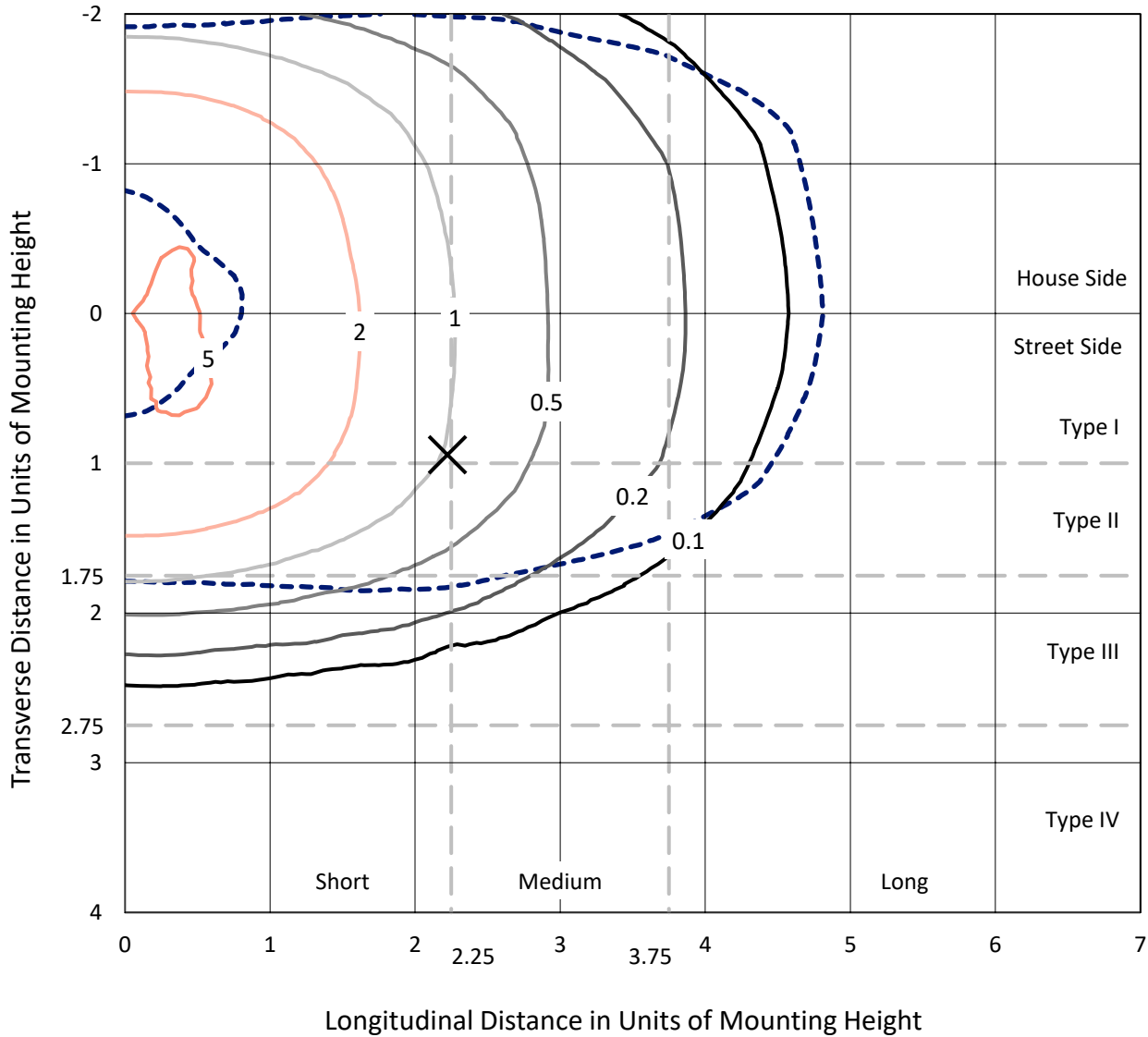
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

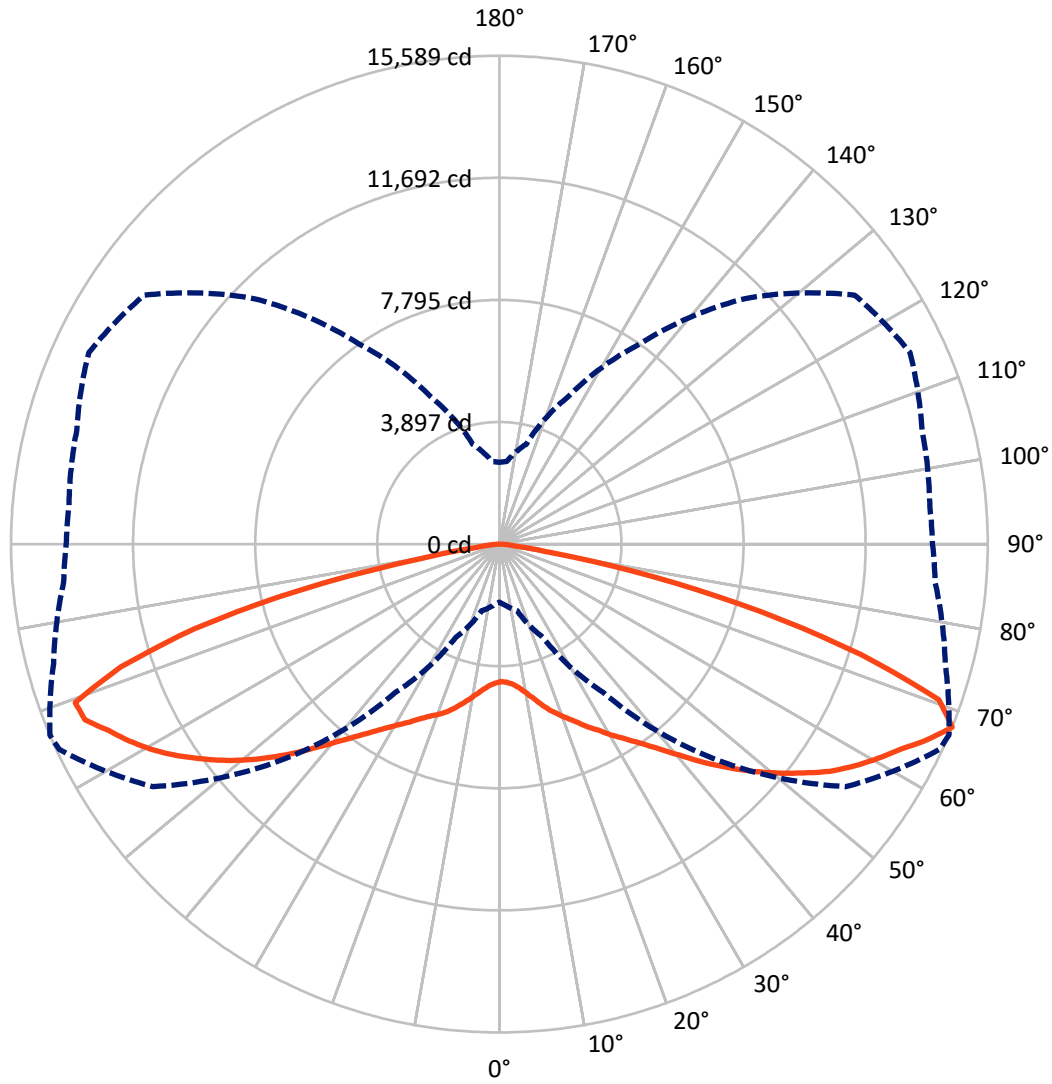
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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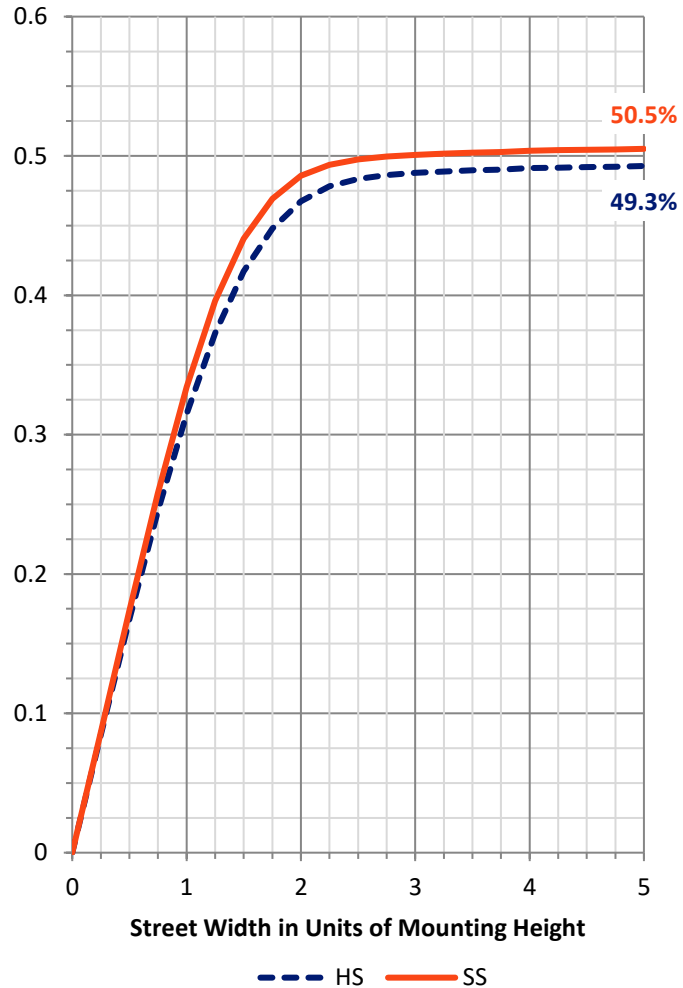
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21435.2	0.0	21435.2
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	21913.7	0.0	21913.7
	% Fixture	50.6	0.0	50.6
Total	Lumens	43348.9	0.0	43348.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.7	1.0
10°-20°	1454.9	3.4
20°-30°	2854.5	6.6
30°-40°	4863.1	11.2
40°-50°	7809.2	18.0
50°-60°	10611.0	24.5
60°-70°	10150.2	23.4
70°-80°	4825.8	11.1
80°-90°	349.7	0.8
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°	43348.9	100.0
0°-180°	43348.9	100.0

Coefficient of Utilization



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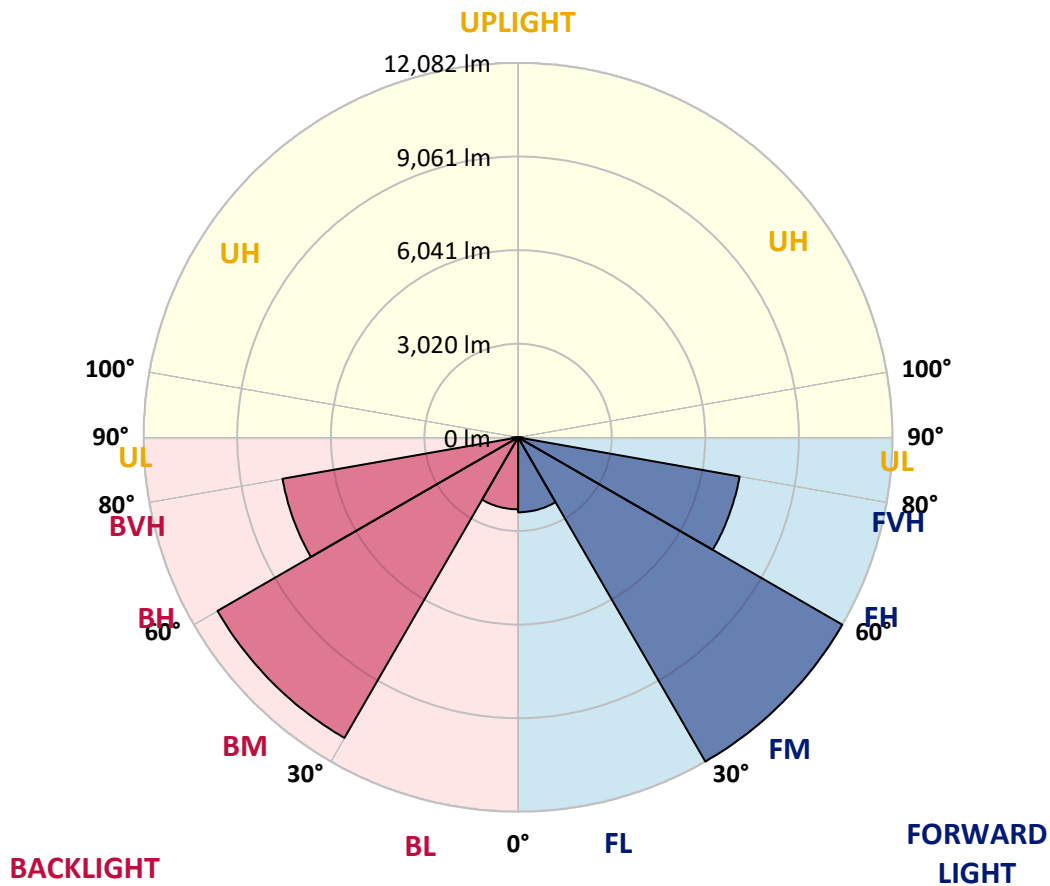
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2417.0	5.6			
FM (30°-60°)	12081.7	27.9			
FH (60°-80°)	7257.7	16.7			G3/7500
FVH (80°-90°)	157.2	0.4			G2/225
BL (0°-30°)	2323.0	5.4	B3/2500		
BM (30°-60°)	11201.6	25.8	B5		
BH (60°-80°)	7718.2	17.8	B5		G5
BVH (80°-90°)	192.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4389.3	4389.3	4389.3	4389.3	4389.3	4389.3	4389.3	4389.3	4389.3	4389.3	4389.3
2.5°	4298.8	4304.8	4313.8	4332.0	4350.1	4377.2	4404.4	4401.4	4413.5	4422.5	4431.6
5°	4274.6	4280.6	4295.7	4319.9	4347.1	4392.3	4449.7	4473.8	4492.0	4525.2	4555.4
7.5°	4325.9	4338.0	4359.1	4392.3	4434.6	4492.0	4570.4	4612.7	4639.9	4700.3	4751.6
10°	4395.4	4410.4	4452.7	4516.1	4579.5	4667.0	4766.7	4830.1	4848.2	4926.7	5023.3
12.5°	4461.8	4479.9	4549.3	4664.0	4778.7	4896.5	5014.2	5092.7	5098.7	5204.4	5313.1
15°	4567.4	4582.5	4676.1	4824.0	4999.1	5162.1	5307.0	5361.4	5385.5	5461.0	5596.8
17.5°	4799.9	4818.0	4938.7	5098.7	5282.9	5454.9	5599.9	5645.1	5645.1	5708.5	5820.2
20°	5050.4	5068.5	5228.5	5433.8	5657.2	5832.3	5944.0	5901.7	5886.6	5904.7	5983.2
22.5°	5331.2	5364.4	5518.3	5756.8	6031.5	6245.9	6303.2	6176.4	6134.2	6091.9	6110.0
25°	5690.4	5729.7	5880.6	6134.2	6402.8	6629.3	6662.5	6466.2	6442.1	6294.2	6239.8
27.5°	6104.0	6134.2	6321.3	6571.9	6822.5	7012.6	7048.9	6807.4	6725.9	6520.6	6393.8
30°	6638.3	6665.5	6828.5	7076.0	7293.4	7426.2	7471.5	7139.4	7076.0	6762.1	6565.9
32.5°	7220.9	7233.0	7399.0	7637.5	7830.7	7957.5	7894.1	7507.7	7414.1	7060.9	6792.3
35°	7888.1	7888.1	8102.4	8295.6	8449.6	8485.8	8365.1	7924.3	7815.6	7432.3	7097.2
37.5°	8543.2	8561.3	8760.5	8990.0	9125.8	9119.8	8899.4	8416.4	8292.6	7876.0	7504.7
40°	9252.6	9291.8	9491.1	9747.7	9877.5	9859.4	9521.3	8983.9	8857.1	8365.1	8002.8
42.5°	9904.6	9968.0	10200.5	10463.1	10605.0	10592.9	10239.7	9636.0	9512.2	8956.7	8594.5
45°	10423.9	10490.3	10780.1	11145.4	11371.8	11350.6	10994.4	10312.2	10161.2	9578.6	9180.1
47.5°	10879.7	10949.1	11272.2	11658.6	12017.8	12054.0	11728.0	10994.4	10834.4	10245.8	9796.0
50°	11229.9	11263.1	11625.4	12048.0	12464.6	12666.8	12383.1	11679.7	11486.5	10903.9	10396.7
52.5°	11202.7	11248.0	11694.8	12268.4	12826.8	13158.9	12962.7	12325.7	12138.5	11504.6	11009.5
55°	10650.3	10695.6	11226.9	12063.1	13029.1	13518.1	13497.0	12941.5	12805.7	12117.4	11646.5
57.5°	9844.3	9943.9	10472.2	11374.8	12763.4	13804.9	13889.4	13503.0	13361.2	12718.2	12277.4
60°	8401.3	8534.1	9143.9	10315.2	11912.1	13708.3	14309.1	13977.0	13889.4	13276.6	12848.0
62.5°	6104.0	6200.6	7012.6	8549.2	10650.3	13020.0	14662.3	14466.0	14399.6	13777.7	13364.2
65°	3655.8	3876.1	4528.2	6046.6	8591.5	11722.0	14469.1	15106.0	15036.6	14294.0	13804.9
67.5°	1850.5	1950.1	2206.7	3278.4	5778.0	9699.4	13500.0	15504.5	15589.0	14734.7	13961.9
70°	1147.1	1174.3	1246.8	1618.1	2886.0	6372.7	11039.7	14466.0	14879.6	14665.3	13554.4
72.5°	920.7	926.8	938.8	1008.3	1385.6	2979.5	6979.4	11329.5	12075.2	13696.2	12971.7
75°	763.8	766.8	769.8	790.9	863.4	1216.6	3396.1	7785.5	8657.9	11640.4	12026.9
77.5°	612.8	597.7	609.8	618.9	637.0	679.2	1171.3	4153.9	5038.4	7640.6	9300.9
80°	398.5	392.4	416.6	425.6	443.8	470.9	624.9	1409.8	1711.7	2780.3	2958.4
82.5°	214.3	202.3	253.6	244.5	253.6	274.7	368.3	516.2	579.6	839.2	709.4
85°	66.4	66.4	69.4	81.5	99.6	96.6	160.0	253.6	280.7	359.2	265.7
87.5°	12.1	12.1	12.1	12.1	12.1	15.1	33.2	51.3	69.4	123.8	93.6
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°	4389.3	4389.3	4389.3	4389.3	4389.3	4389.3	4389.3	4389.3	4389.3	4389.3	4389.3
2.5°	4449.7	4422.5	4437.6	4446.7	4443.7	4437.6	4407.4	4401.4	4386.3	4362.1	4356.1
5°	4582.5	4552.3	4555.4	4546.3	4516.1	4476.9	4410.4	4377.2	4350.1	4319.9	4316.9
7.5°	4790.8	4757.6	4748.6	4706.3	4621.8	4531.2	4425.5	4365.2	4319.9	4280.6	4274.6
10°	5056.5	5023.3	4993.1	4893.5	4754.6	4633.8	4495.0	4407.4	4341.0	4292.7	4283.7
12.5°	5352.3	5325.1	5249.7	5104.8	4938.7	4796.9	4655.0	4546.3	4449.7	4377.2	4368.2
15°	5681.4	5621.0	5506.3	5319.1	5162.1	5047.4	4875.3	4727.4	4573.5	4476.9	4455.7
17.5°	5910.8	5859.5	5723.6	5542.5	5418.7	5319.1	5116.8	4905.5	4697.2	4555.4	4525.2
20°	6073.8	6019.5	5865.5	5732.7	5693.4	5608.9	5373.4	5128.9	4887.4	4712.3	4673.1
22.5°	6191.5	6134.2	5977.2	5910.8	5965.1	5950.0	5720.6	5442.9	5156.1	4947.8	4899.5
25°	6303.2	6248.9	6110.0	6134.2	6279.1	6324.4	6076.8	5753.8	5427.8	5183.3	5125.9
27.5°	6408.9	6339.5	6276.1	6408.9	6614.2	6698.7	6436.1	6070.8	5717.6	5467.0	5421.7
30°	6571.9	6490.4	6481.3	6674.5	7000.6	7073.0	6783.2	6417.9	6067.8	5814.2	5756.8
32.5°	6777.2	6701.7	6707.7	6997.6	7374.9	7435.3	7187.7	6846.6	6496.4	6242.9	6164.4
35°	7054.9	6961.3	7012.6	7368.9	7749.2	7860.9	7661.7	7377.9	7036.8	6777.2	6689.6
37.5°	7438.3	7302.4	7408.1	7782.4	8165.8	8331.9	8177.9	7966.6	7628.5	7365.8	7284.3
40°	7927.3	7815.6	7857.9	8271.5	8666.9	8866.2	8769.6	8561.3	8226.2	7951.5	7857.9
42.5°	8506.9	8395.2	8380.2	8820.9	9216.4	9518.2	9424.7	9234.5	8887.3	8573.4	8482.8
45°	9074.5	8971.8	8993.0	9442.8	9886.5	10215.6	10122.0	9898.6	9521.3	9159.0	9086.6
47.5°	9666.2	9581.6	9599.7	10076.7	10565.8	10894.8	10777.1	10505.4	10064.6	9678.2	9590.7
50°	10272.9	10176.3	10203.5	10704.6	11232.9	11543.8	11362.7	10961.2	10475.2	10097.8	10022.4
52.5°	10876.7	10762.0	10831.4	11305.4	11851.8	12099.3	11764.2	11278.2	10807.3	10432.9	10348.4
55°	11571.0	11450.3	11374.8	11881.9	12422.3	12525.0	12066.1	11498.6	10940.1	10514.4	10463.1
57.5°	12205.0	12102.3	11960.4	12467.6	12866.1	12790.6	12298.5	11438.2	10617.1	10070.7	9998.2
60°	12772.5	12684.9	12561.2	12992.9	13174.0	13004.9	12111.4	10722.7	9820.1	9249.6	9216.4
62.5°	13294.7	13201.2	13086.4	13454.7	13430.6	13038.1	11260.1	9623.9	8416.4	7803.6	7749.2
65°	13708.3	13623.8	13590.6	13880.4	13841.1	12389.1	9934.8	7824.7	6149.3	5458.0	5436.8
67.5°	13826.0	13792.8	13971.0	14463.0	13850.2	11085.0	7791.5	5189.3	3302.6	2647.5	2608.2
70°	13385.3	13382.3	13892.5	14595.8	12594.4	8467.7	4597.6	2339.6	1660.3	1473.2	1449.0
72.5°	12811.7	12802.7	13207.2	12591.4	9340.1	4633.8	1935.0	1252.8	1038.5	987.1	987.1
75°	11869.9	11845.7	12150.6	9578.6	5252.7	1744.9	1026.4	860.4	815.1	806.0	806.0
77.5°	9675.2	9473.0	8993.0	5919.8	1832.4	857.3	679.2	676.2	649.0	646.0	646.0
80°	3181.8	3181.8	3698.0	2258.1	809.0	528.3	480.0	504.1	477.0	458.9	455.8
82.5°	519.2	715.5	1017.3	646.0	437.7	329.0	295.8	314.0	329.0	262.6	262.6
85°	205.3	268.7	392.4	301.9	202.3	132.8	141.9	157.0	138.9	120.8	117.7
87.5°	78.5	96.6	138.9	72.5	42.3	24.2	15.1	15.1	12.1	12.1	12.1
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)