

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: P641326

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
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-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27292.3 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

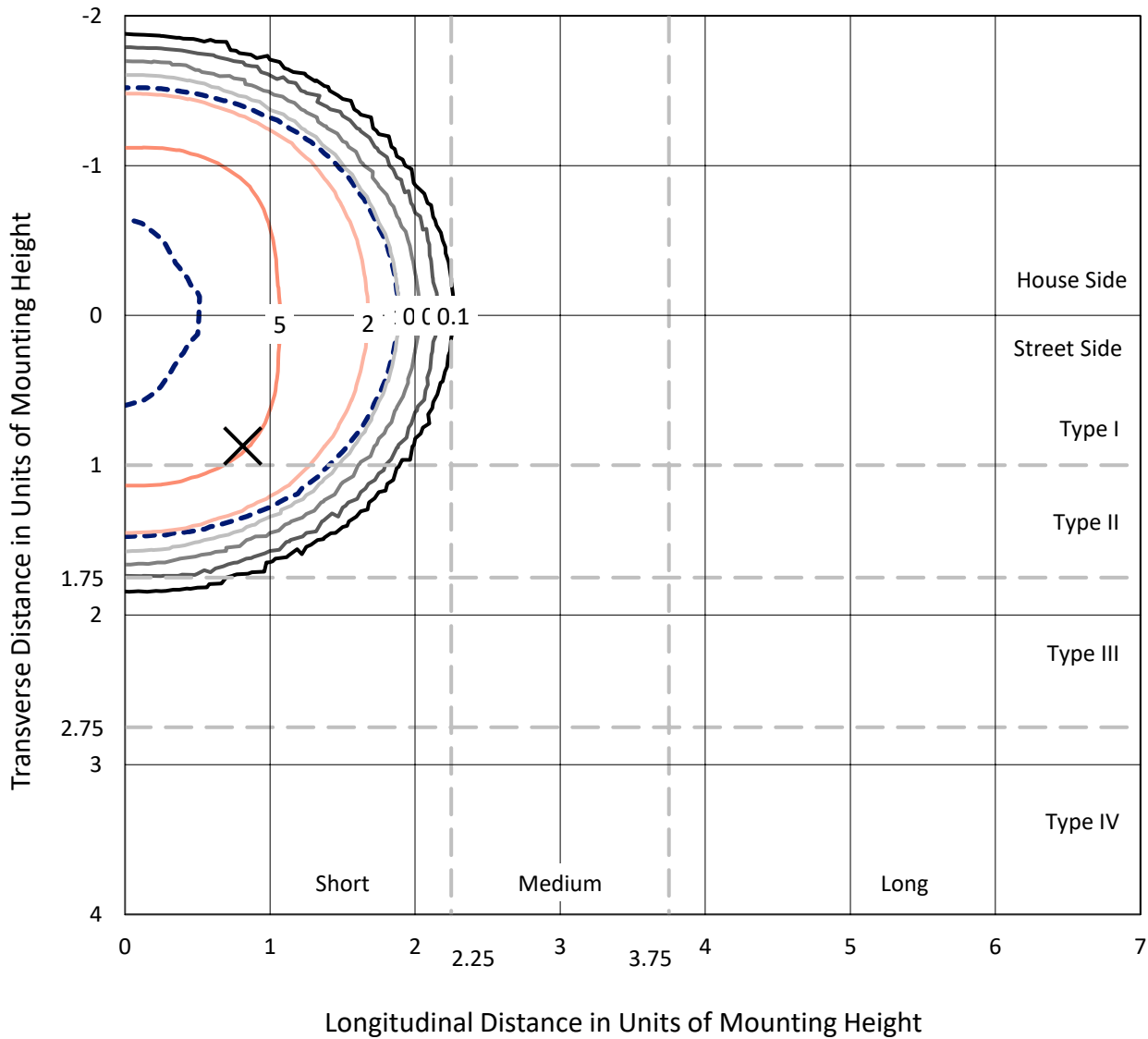
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641326
 CATALOG NUMBER: GWS-SA5F-760-U-RW-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

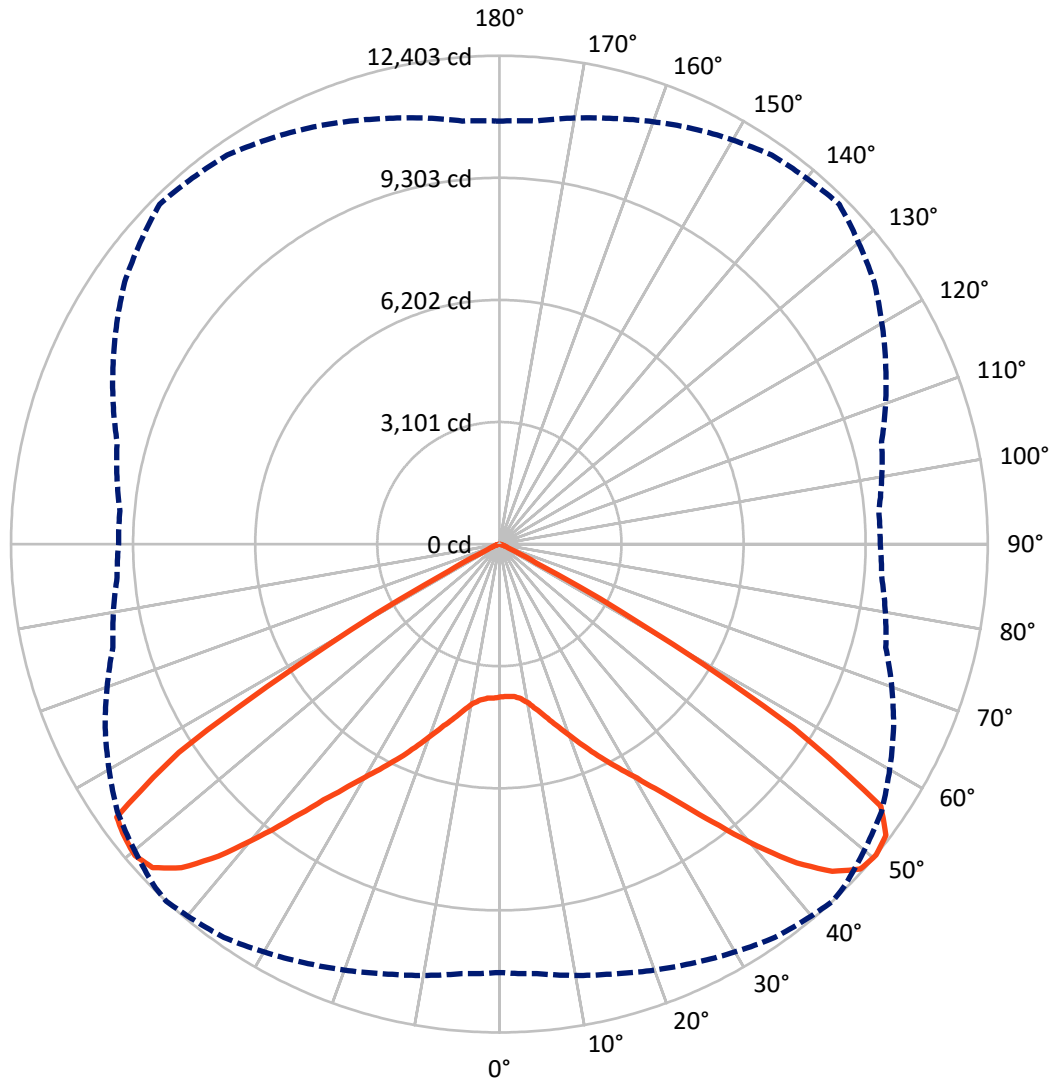
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type V - Short - N/A

REPORT NUMBER: P641326
CATALOG NUMBER: GWS-SA5F-760-U-RW-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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CATALOG NUMBER: GWS-SA5F-760-U-RW-W-GRSBK

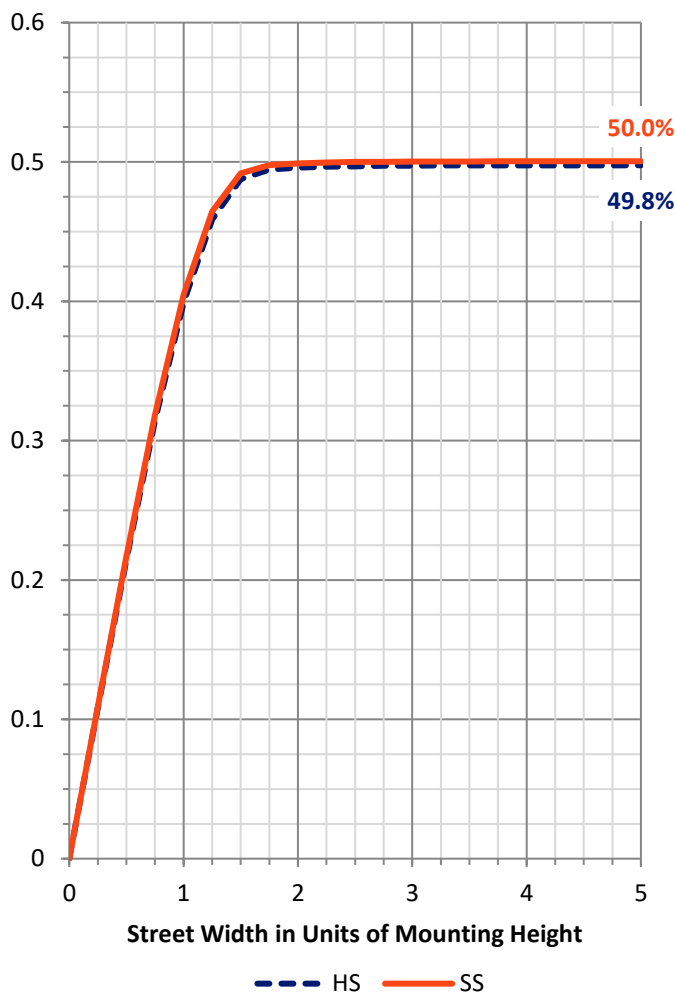
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13645.8	0.0	13645.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13646.5	0.0	13646.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27292.3	0.0	27292.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.3	1.4
10°-20°	1315.5	4.8
20°-30°	2661.5	9.8
30°-40°	4938.1	18.1
40°-50°	8196.9	30.0
50°-60°	8365.3	30.7
60°-70°	1371.8	5.0
70°-80°	60.1	0.2
80°-90°	0.8	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°	27292.3	100.0
0°-180°	27292.3	100.0

Coefficient of Utilization



REPORT NUMBER: P641326

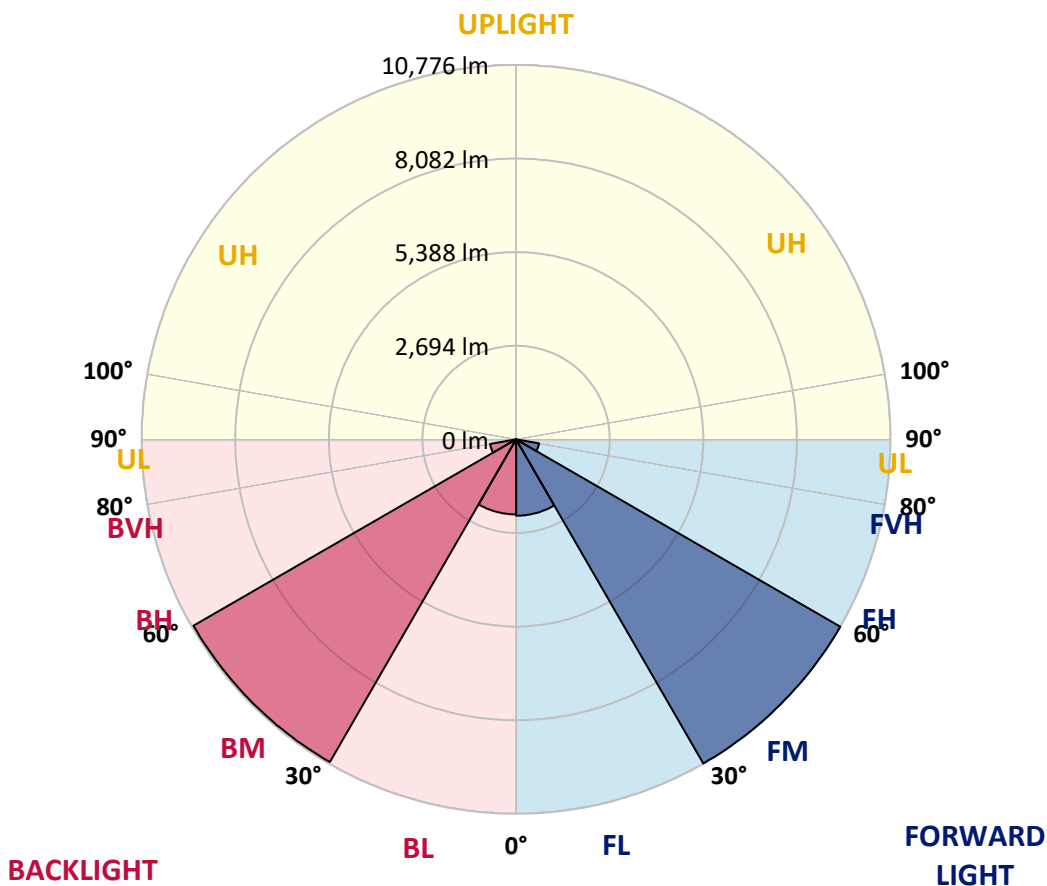
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2198.8	8.1			
FM (30°-60°)	10776.3	39.5			
FH (60°-80°)	671.1	2.5			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	2160.6	7.9	B3/2500		
BM (30°-60°)	10723.9	39.3	B5		
BH (60°-80°)	760.8	2.8	B2/1000		G1/1800
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





REPORT NUMBER: P641326

CATALOG NUMBER: GWS-SA5F-760-U-RW-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	3881.9	3881.9	3881.9	3881.9	3881.9	3881.9	3881.9	3881.9	3881.9	3881.9	3881.9
2.5°	3809.5	3818.5	3830.6	3842.7	3857.7	3872.8	3881.9	3909.1	3903.0	3927.2	3927.2
5°	3767.2	3776.2	3791.3	3818.5	3851.7	3884.9	3909.1	3963.4	3993.6	4041.9	4060.0
7.5°	3788.3	3800.4	3818.5	3860.8	3912.1	3963.4	3990.6	4078.1	4138.5	4229.0	4280.4
10°	3857.7	3869.8	3900.0	3972.5	4038.9	4111.3	4144.5	4256.2	4352.8	4476.6	4549.0
12.5°	3936.2	3951.3	4011.7	4120.4	4235.1	4331.7	4376.9	4500.7	4600.3	4739.2	4853.9
15°	4017.7	4041.9	4135.5	4295.4	4458.4	4588.2	4636.5	4769.4	4869.0	5016.9	5146.7
17.5°	4207.9	4235.1	4340.7	4512.8	4736.2	4887.1	4929.3	5068.2	5143.7	5243.3	5379.1
20°	4446.4	4497.7	4627.5	4835.8	5080.3	5225.2	5255.4	5391.2	5385.2	5427.4	5545.1
22.5°	4742.2	4778.4	4920.3	5167.8	5442.5	5602.5	5671.9	5729.3	5653.8	5617.6	5693.0
25°	5050.1	5092.3	5246.3	5518.0	5825.9	6010.0	6067.4	6112.6	5991.9	5856.1	5865.1
27.5°	5448.5	5478.7	5629.7	5919.4	6227.3	6435.6	6486.9	6565.4	6405.4	6188.1	6127.7
30°	5922.5	5952.6	6112.6	6417.5	6722.4	6900.5	6979.0	7075.6	6900.5	6628.8	6559.4
32.5°	6477.9	6508.1	6713.3	7027.3	7277.8	7471.0	7546.5	7649.1	7510.2	7205.4	7126.9
35°	7142.0	7160.1	7401.6	7742.7	8008.3	8195.5	8246.8	8367.5	8213.6	7908.7	7866.4
37.5°	7911.7	7932.8	8195.5	8590.9	8862.6	9070.8	9152.3	9185.5	8998.4	8657.3	8624.1
40°	8756.9	8826.3	9082.9	9508.5	9813.4	10076.0	10148.5	10036.8	9774.2	9309.3	9248.9
42.5°	9638.3	9698.7	9985.5	10447.3	10800.5	11069.1	11072.2	10830.7	10383.9	9741.0	9650.4
45°	10371.9	10396.0	10767.3	11232.1	11666.8	11857.0	11875.1	11437.4	10764.3	9991.5	9798.3
47.5°	10876.0	10915.2	11238.2	11684.9	12164.9	12336.9	12300.7	11754.4	10945.4	10154.5	9834.5
50°	10882.0	10948.4	11298.6	11730.2	12195.1	12403.4	12352.0	11844.9	11048.0	10160.6	9747.0
52.5°	9919.1	10027.7	10598.2	11223.1	11935.5	12291.7	12303.7	11962.6	11008.8	10064.0	9668.5
55°	7483.1	7600.8	8319.2	9384.8	10761.2	11754.4	11926.4	11823.8	10963.5	10106.2	9807.4
57.5°	3960.4	3869.8	4268.3	5324.8	7054.4	8811.2	9315.3	10136.4	10459.4	10157.5	10064.0
60°	863.3	920.7	1225.5	1651.2	2752.9	4144.5	4636.5	6043.2	7715.5	8458.1	8995.4
62.5°	371.3	365.2	380.3	431.7	630.9	1050.5	1282.9	2094.9	3305.3	4539.9	5376.1
65°	304.9	307.9	320.0	320.0	298.8	301.9	317.0	480.0	772.8	1083.7	1455.0
67.5°	229.4	232.4	253.6	259.6	244.5	217.3	214.3	181.1	190.2	238.5	247.5
70°	144.9	144.9	157.0	163.0	163.0	150.9	147.9	129.8	126.8	144.9	163.0
72.5°	78.5	78.5	84.5	87.5	84.5	81.5	81.5	78.5	75.5	87.5	111.7
75°	33.2	33.2	36.2	36.2	33.2	33.2	33.2	33.2	33.2	39.2	60.4
77.5°	6.0	9.1	12.1	9.1	6.0	6.0	6.0	9.1	9.1	12.1	18.1
80°	3.0	3.0	6.0	3.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0
82.5°	3.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P641326

CATALOG NUMBER: GWS-SA5F-760-U-RW-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3881.9	3881.9	3881.9	3881.9	3881.9	3881.9	3881.9	3881.9	3881.9	3881.9	3881.9
2.5°	3948.3	3915.1	3927.2	3933.2	3924.2	3918.1	3884.9	3875.9	3860.8	3836.6	3830.6
5°	4081.1	4054.0	4050.9	4032.8	3990.6	3939.3	3875.9	3848.7	3818.5	3788.3	3782.3
7.5°	4304.5	4271.3	4250.2	4189.8	4093.2	4011.7	3906.0	3848.7	3809.5	3770.2	3761.2
10°	4591.3	4552.0	4491.7	4380.0	4250.2	4132.4	4008.7	3933.2	3872.8	3818.5	3815.5
12.5°	4896.1	4853.9	4745.2	4603.3	4446.4	4337.7	4180.7	4075.1	3984.5	3903.0	3894.0
15°	5216.1	5164.8	5016.9	4847.8	4703.0	4591.3	4419.2	4250.2	4111.3	3993.6	3981.5
17.5°	5460.6	5397.2	5222.1	5095.4	4977.6	4862.9	4669.7	4446.4	4262.2	4120.4	4087.2
20°	5614.6	5554.2	5388.2	5318.7	5264.4	5182.9	4953.5	4721.1	4515.8	4340.7	4310.5
22.5°	5762.5	5690.0	5545.1	5545.1	5587.4	5554.2	5306.7	5041.0	4799.5	4597.3	4552.0
25°	5928.5	5871.1	5768.5	5853.0	5958.7	5955.7	5702.1	5370.1	5092.3	4866.0	4820.7
27.5°	6170.0	6112.6	6076.4	6236.4	6369.2	6360.2	6082.4	5723.2	5430.4	5207.1	5164.8
30°	6595.6	6541.3	6502.0	6695.2	6864.3	6800.9	6496.0	6148.9	5853.0	5599.5	5569.3
32.5°	7163.1	7105.7	7054.4	7247.6	7398.5	7317.0	7027.3	6701.3	6360.2	6112.6	6052.3
35°	7908.7	7787.9	7736.6	7966.0	8029.4	7938.9	7661.2	7374.4	7012.2	6728.4	6689.2
37.5°	8678.4	8536.6	8500.3	8699.6	8802.2	8769.0	8443.0	8144.1	7751.7	7437.8	7392.5
40°	9336.5	9206.7	9143.3	9454.2	9686.6	9707.8	9415.0	9049.7	8587.9	8261.9	8180.4
42.5°	9722.9	9611.2	9596.1	10079.0	10459.4	10731.1	10380.9	10003.6	9517.6	9149.3	9082.9
45°	9810.4	9737.9	9864.7	10498.6	11090.3	11585.3	11286.5	10888.0	10362.8	9973.4	9910.0
47.5°	9801.3	9777.2	10003.6	10716.0	11464.6	12074.3	11926.4	11476.7	10969.5	10562.0	10501.7
50°	9671.5	9674.6	10051.9	10824.6	11615.5	12207.2	12059.2	11642.7	11189.9	10788.4	10740.1
52.5°	9620.2	9602.1	9961.3	10791.4	11769.5	12146.8	11814.7	11346.9	10842.8	10347.7	10275.3
55°	9801.3	9756.1	9973.4	10764.3	11787.6	12113.6	11238.2	10223.9	9191.6	8606.0	8557.7
57.5°	10073.0	10024.7	10127.3	10565.0	10842.8	10073.0	8270.9	6634.8	5572.3	5122.5	4926.3
60°	8995.4	8962.2	8883.7	8355.4	7166.1	5406.3	3682.7	2348.5	1687.4	1364.4	1364.4
62.5°	5581.4	5536.1	5110.5	3797.4	2759.0	1596.8	878.4	549.4	416.6	389.4	386.4
65°	1566.6	1557.6	1288.9	911.6	579.6	359.2	317.0	323.0	317.0	307.9	304.9
67.5°	235.4	259.6	259.6	211.3	202.2	226.4	265.6	283.7	268.7	253.6	247.5
70°	150.9	163.0	157.0	135.8	144.9	169.0	190.2	193.2	184.1	169.0	166.0
72.5°	105.7	117.7	96.6	87.5	90.6	99.6	108.7	108.7	105.7	99.6	93.6
75°	63.4	63.4	45.3	42.3	42.3	45.3	45.3	51.3	51.3	48.3	45.3
77.5°	21.1	24.1	15.1	12.1	12.1	12.1	15.1	18.1	18.1	15.1	12.1
80°	3.0	6.0	3.0	3.0	3.0	3.0	3.0	3.0	6.0	6.0	3.0
82.5°	3.0	3.0	3.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)