

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: P641161

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641161  
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-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

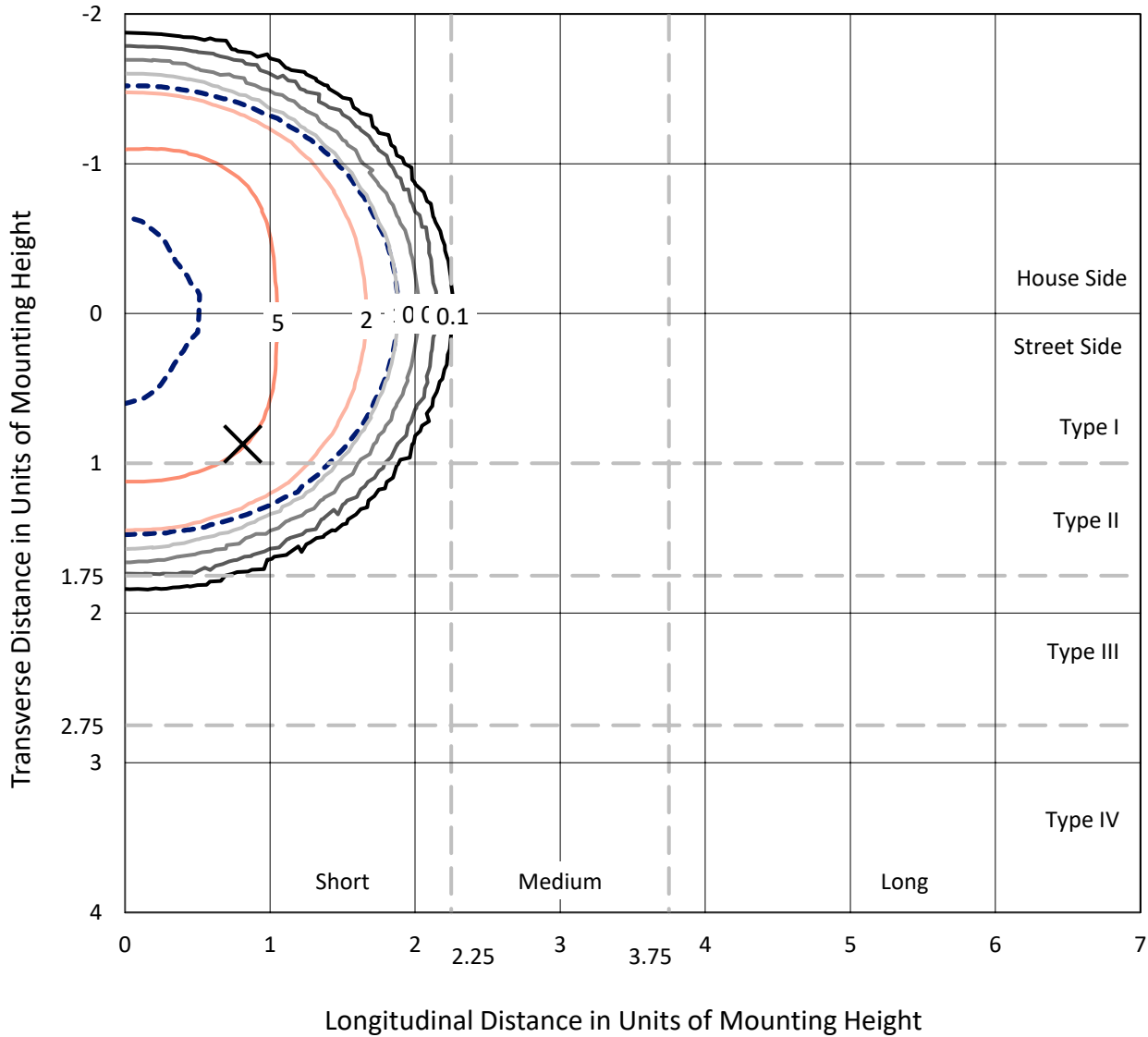
Lumens per Lamp: N/A  
Luminaire Lumens: 26680.9 lumens  
Efficiency: N/A  
Efficacy: 86.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

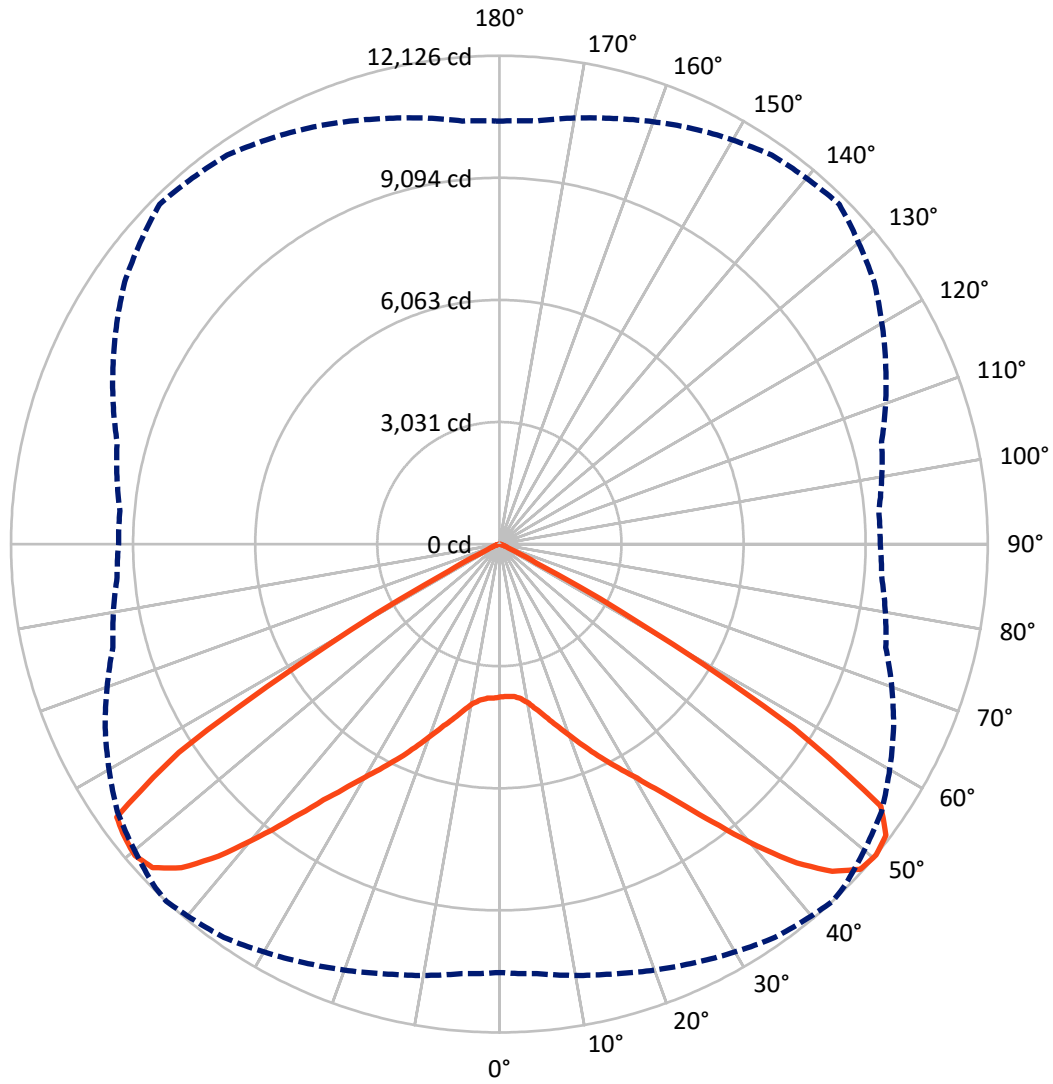
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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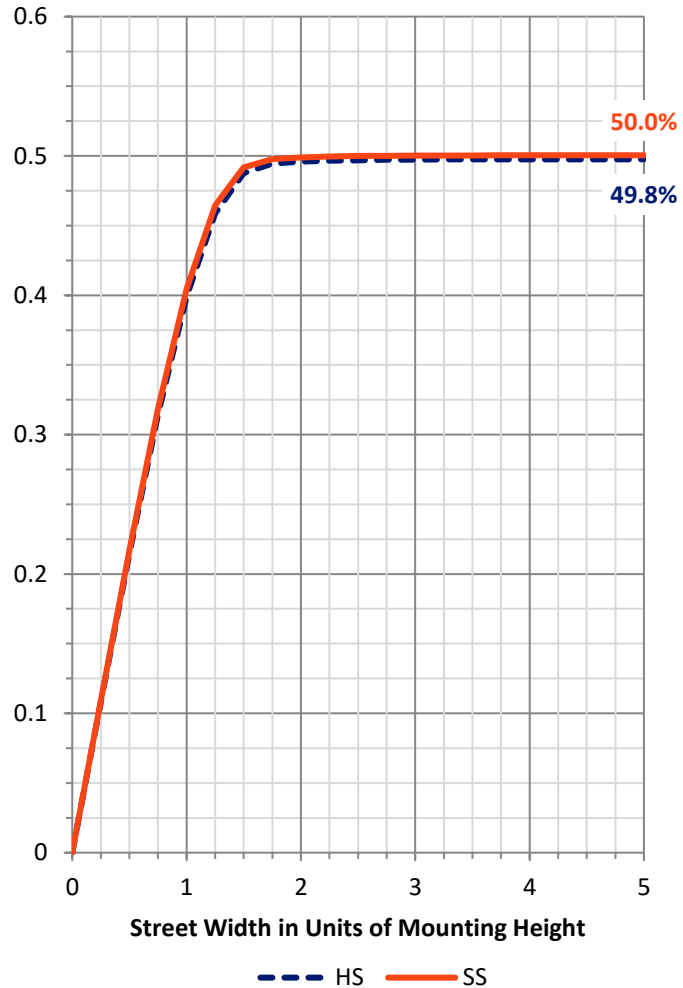
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13340.1	0.0	13340.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13340.8	0.0	13340.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26680.9	0.0	26680.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	373.7	1.4
10°-20°	1286.1	4.8
20°-30°	2601.9	9.8
30°-40°	4827.4	18.1
40°-50°	8013.3	30.0
50°-60°	8177.9	30.7
60°-70°	1341.1	5.0
70°-80°	58.7	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°	26680.9	100.0
0°-180°	26680.9	100.0

**Coefficient of Utilization**



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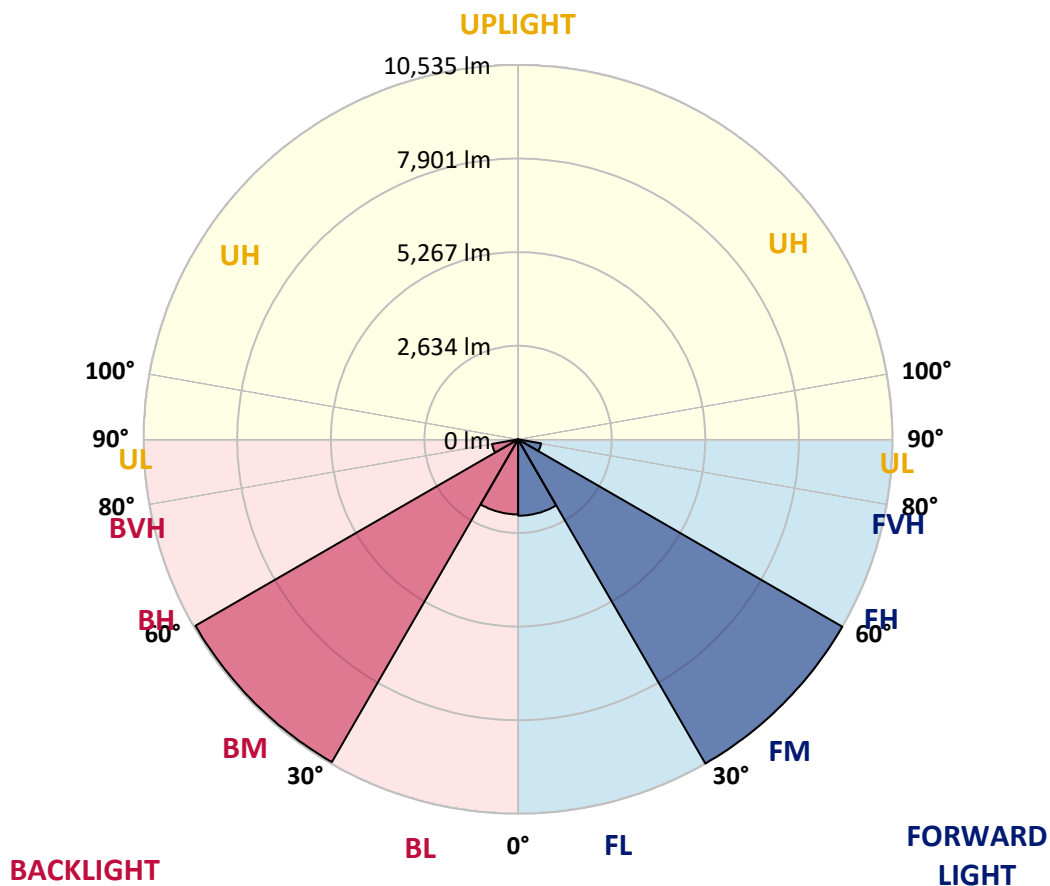
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2149.5	8.1			
FM (30°-60°)	10534.9	39.5			
FH (60°-80°)	656.1	2.5			G0/660
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	2112.2	7.9	B3/2500		
BM (30°-60°)	10483.7	39.3	B5		
BH (60°-80°)	743.7	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	3794.9	3794.9	3794.9	3794.9	3794.9	3794.9	3794.9	3794.9	3794.9	3794.9	3794.9
2.5°	3724.1	3733.0	3744.8	3756.6	3771.3	3786.1	3794.9	3821.5	3815.6	3839.2	3839.2
5°	3682.8	3691.7	3706.4	3733.0	3765.4	3797.9	3821.5	3874.6	3904.1	3951.3	3969.0
7.5°	3703.5	3715.3	3733.0	3774.3	3824.4	3874.6	3901.2	3986.7	4045.8	4134.3	4184.5
10°	3771.3	3783.1	3812.6	3883.5	3948.4	4019.2	4051.7	4160.9	4255.3	4376.3	4447.1
12.5°	3848.1	3862.8	3921.8	4028.1	4140.2	4234.6	4278.9	4399.9	4497.3	4633.0	4745.1
15°	3927.7	3951.3	4042.8	4199.2	4358.6	4485.5	4532.7	4662.5	4759.9	4904.5	5031.4
17.5°	4113.6	4140.2	4243.5	4411.7	4630.1	4777.6	4818.9	4954.7	5028.4	5125.8	5258.6
20°	4346.8	4396.9	4523.8	4727.4	4966.5	5108.1	5137.6	5270.4	5264.5	5305.8	5420.9
22.5°	4636.0	4671.4	4810.1	5052.0	5320.6	5477.0	5544.9	5600.9	5527.2	5491.7	5565.5
25°	4937.0	4978.3	5128.8	5394.4	5695.4	5875.4	5931.4	5975.7	5857.7	5724.9	5733.7
27.5°	5326.5	5356.0	5503.5	5786.8	6087.8	6291.4	6341.6	6418.3	6261.9	6049.5	5990.5
30°	5789.8	5819.3	5975.7	6273.7	6571.8	6745.9	6822.6	6917.1	6745.9	6480.3	6412.4
32.5°	6332.8	6362.3	6562.9	6869.8	7114.8	7303.6	7377.4	7477.7	7342.0	7043.9	6967.2
35°	6982.0	6999.7	7235.8	7569.2	7828.9	8011.9	8062.0	8180.1	8029.6	7731.5	7690.2
37.5°	7734.5	7755.1	8011.9	8398.4	8664.0	8867.6	8947.3	8979.8	8796.8	8463.4	8430.9
40°	8560.7	8628.6	8879.4	9295.5	9593.6	9850.3	9921.1	9811.9	9555.2	9100.8	9041.7
42.5°	9422.4	9481.4	9761.8	10213.3	10558.5	10821.2	10824.1	10588.0	10151.3	9522.8	9434.2
45°	10139.5	10163.1	10526.1	10980.5	11405.5	11591.4	11609.1	11181.2	10523.1	9767.7	9578.8
47.5°	10632.3	10670.7	10986.4	11423.2	11892.4	12060.6	12025.2	11491.0	10700.2	9927.0	9614.2
50°	10638.2	10703.1	11045.4	11467.4	11921.9	12125.5	12075.3	11579.6	10800.5	9932.9	9528.7
52.5°	9696.9	9803.1	10360.8	10971.7	11668.1	12016.3	12028.1	11694.7	10762.2	9838.5	9451.9
55°	7315.4	7430.5	8132.8	9174.5	10520.2	11491.0	11659.2	11558.9	10717.9	9879.8	9587.7
57.5°	3871.7	3783.1	4172.7	5205.5	6896.4	8613.9	9106.7	9909.3	10225.1	9930.0	9838.5
60°	844.0	900.0	1198.1	1614.2	2691.3	4051.7	4532.7	5907.8	7542.7	8268.6	8793.9
62.5°	363.0	357.1	371.8	422.0	616.8	1026.9	1254.2	2048.0	3231.3	4438.2	5255.7
65°	298.0	301.0	312.8	312.8	292.1	295.1	309.9	469.2	755.4	1059.4	1422.4
67.5°	224.3	227.2	247.9	253.8	239.0	212.5	209.5	177.1	185.9	233.1	242.0
70°	141.6	141.6	153.4	159.4	159.4	147.5	144.6	126.9	123.9	141.6	159.4
72.5°	76.7	76.7	82.6	85.6	82.6	79.7	79.7	76.7	73.8	85.6	109.2
75°	32.5	32.5	35.4	35.4	32.5	32.5	32.5	32.5	32.5	38.4	59.0
77.5°	5.9	8.9	11.8	8.9	5.9	5.9	5.9	8.9	8.9	11.8	17.7
80°	3.0	3.0	5.9	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3794.9	3794.9	3794.9	3794.9	3794.9	3794.9	3794.9	3794.9	3794.9	3794.9	3794.9
2.5°	3859.9	3827.4	3839.2	3845.1	3836.2	3830.3	3797.9	3789.0	3774.3	3750.7	3744.8
5°	3989.7	3963.1	3960.2	3942.5	3901.2	3851.0	3789.0	3762.5	3733.0	3703.5	3697.6
7.5°	4208.1	4175.6	4155.0	4095.9	4001.5	3921.8	3818.5	3762.5	3724.1	3685.8	3676.9
10°	4488.4	4450.0	4391.0	4281.8	4155.0	4039.9	3918.9	3845.1	3786.1	3733.0	3730.0
12.5°	4786.5	4745.1	4638.9	4500.2	4346.8	4240.5	4087.1	3983.8	3895.3	3815.6	3806.7
15°	5099.3	5049.1	4904.5	4739.2	4597.6	4488.4	4320.2	4155.0	4019.2	3904.1	3892.3
17.5°	5338.3	5276.3	5105.2	4981.2	4866.1	4754.0	4565.1	4346.8	4166.8	4028.1	3995.6
20°	5488.8	5429.8	5267.5	5199.6	5146.5	5066.8	4842.5	4615.3	4414.6	4243.5	4214.0
22.5°	5633.4	5562.6	5420.9	5420.9	5462.2	5429.8	5187.8	4928.1	4692.0	4494.3	4450.0
25°	5795.7	5739.6	5639.3	5721.9	5825.2	5822.2	5574.4	5249.8	4978.3	4756.9	4712.7
27.5°	6031.8	5975.7	5940.3	6096.7	6226.5	6217.7	5946.2	5595.0	5308.8	5090.4	5049.1
30°	6447.9	6394.7	6356.4	6545.2	6710.5	6648.5	6350.5	6011.1	5721.9	5474.0	5444.5
32.5°	7002.6	6946.6	6896.4	7085.3	7232.8	7153.1	6869.8	6551.1	6217.7	5975.7	5916.7
35°	7731.5	7613.5	7563.3	7787.6	7849.6	7761.0	7489.5	7209.2	6855.1	6577.7	6539.3
37.5°	8484.0	8345.3	8309.9	8504.7	8605.0	8572.5	8253.8	7961.7	7578.1	7271.2	7226.9
40°	9127.3	9000.4	8938.5	9242.4	9469.6	9490.3	9204.0	8847.0	8395.5	8076.8	7997.1
42.5°	9505.0	9395.9	9381.1	9853.3	10225.1	10490.7	10148.4	9779.5	9304.4	8944.4	8879.4
45°	9590.6	9519.8	9643.7	10263.4	10841.8	11325.8	11033.6	10644.1	10130.6	9750.0	9688.0
47.5°	9581.8	9558.2	9779.5	10475.9	11207.8	11803.8	11659.2	11219.6	10723.8	10325.4	10266.4
50°	9454.9	9457.8	9826.7	10582.1	11355.3	11933.7	11789.1	11381.9	10939.2	10546.7	10499.5
52.5°	9404.7	9387.0	9738.2	10549.7	11505.8	11874.7	11550.1	11092.7	10599.9	10115.9	10045.1
55°	9581.8	9537.5	9750.0	10523.1	11523.5	11842.2	10986.4	9994.9	8985.7	8413.2	8366.0
57.5°	9847.4	9800.1	9900.5	10328.4	10599.9	9847.4	8085.6	6486.2	5447.5	5007.8	4816.0
60°	8793.9	8761.4	8684.7	8168.3	7005.6	5285.2	3600.2	2295.8	1649.6	1333.8	1333.8
62.5°	5456.3	5412.1	4996.0	3712.3	2697.2	1561.1	858.7	537.1	407.2	380.7	377.7
65°	1531.5	1522.7	1260.1	891.2	566.6	351.2	309.9	315.8	309.9	301.0	298.0
67.5°	230.2	253.8	253.8	206.6	197.7	221.3	259.7	277.4	262.6	247.9	242.0
70°	147.5	159.4	153.4	132.8	141.6	165.3	185.9	188.9	180.0	165.3	162.3
72.5°	103.3	115.1	94.4	85.6	88.5	97.4	106.2	106.2	103.3	97.4	91.5
75°	62.0	62.0	44.3	41.3	41.3	44.3	44.3	50.2	50.2	47.2	44.3
77.5°	20.7	23.6	14.8	11.8	11.8	11.8	14.8	17.7	17.7	14.8	11.8
80°	3.0	5.9	3.0	3.0	3.0	3.0	3.0	3.0	5.9	5.9	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)