

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: P641333

Luminaire Tested: GWS-SA5F-760-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641333  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-760-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

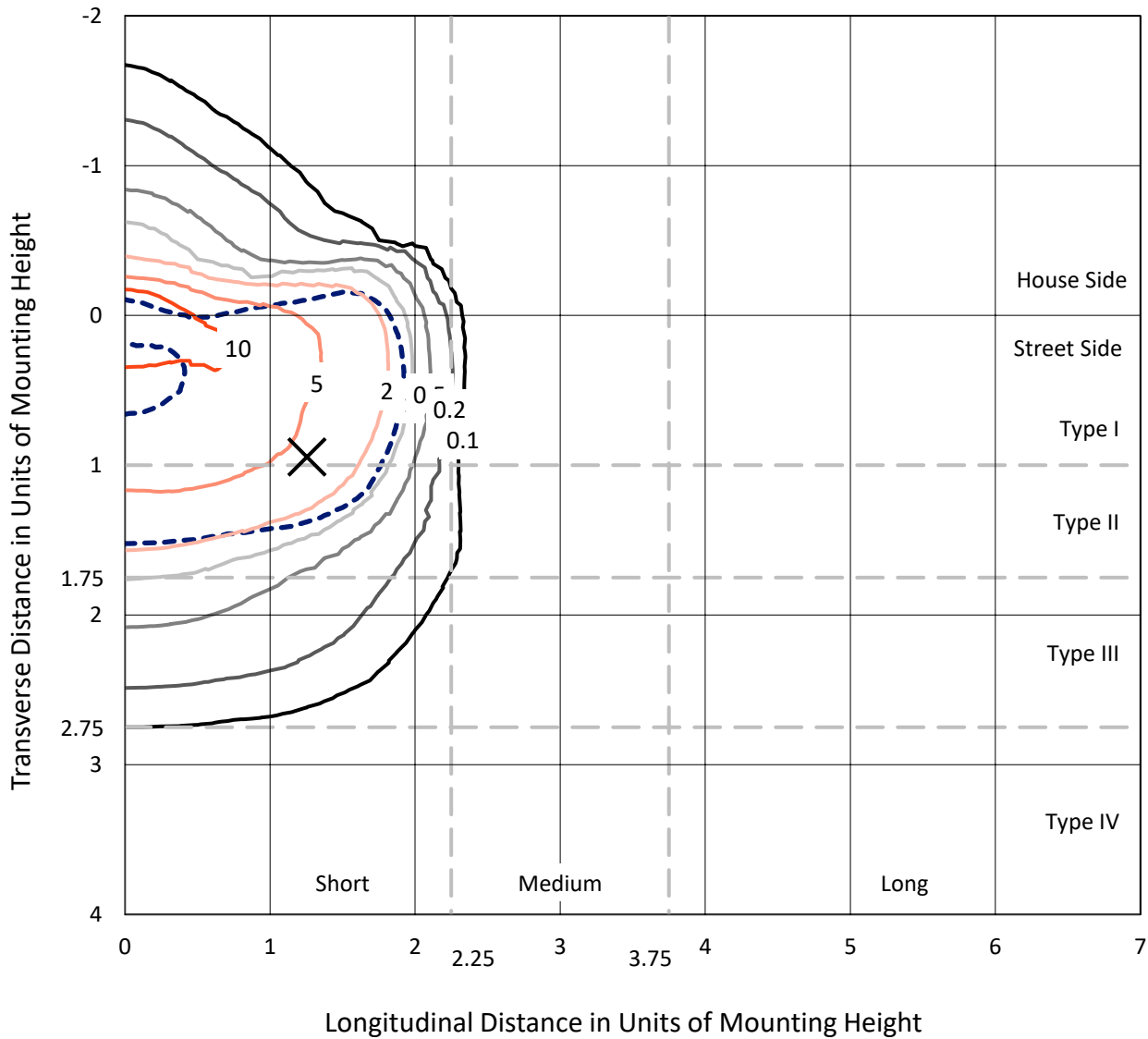
Lumens per Lamp: N/A  
Luminaire Lumens: 24629.8 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

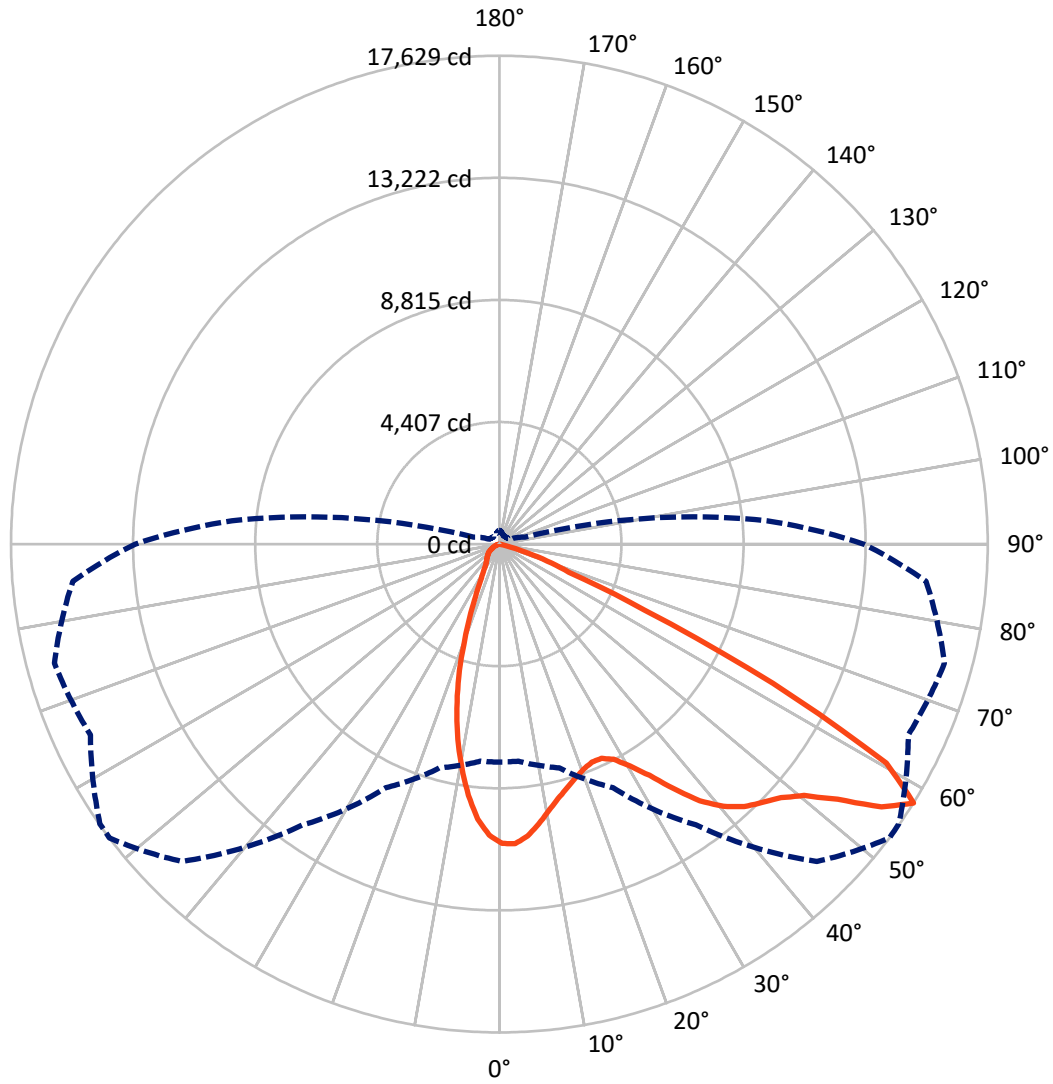
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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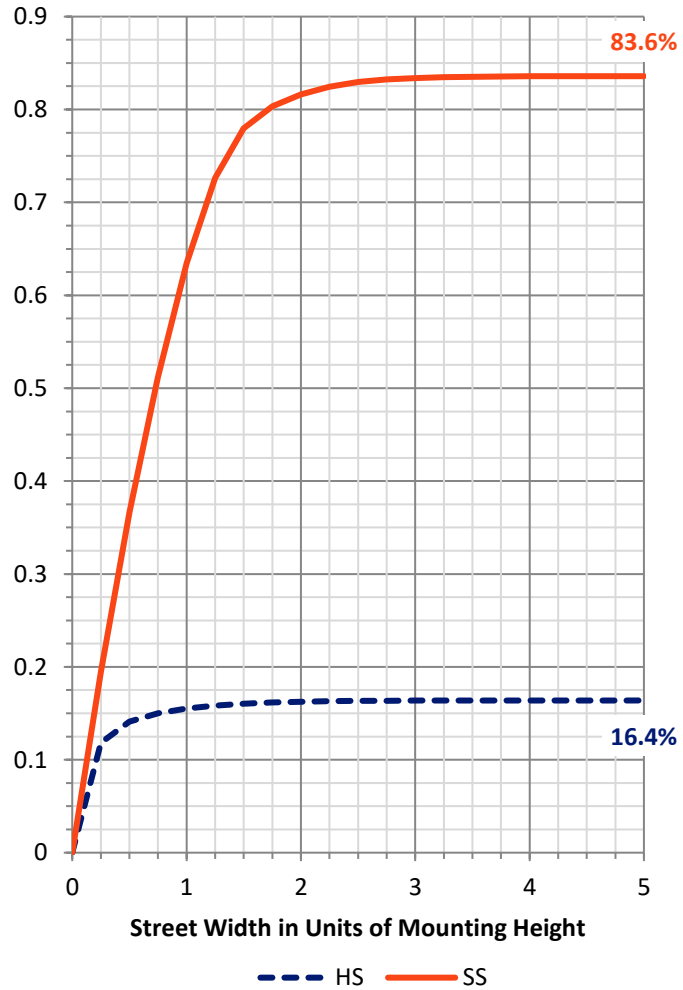
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4068.5	0.0	4068.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	20561.3	0.0	20561.3
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	24629.8	0.0	24629.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	924.4	3.8
10°-20°	2029.3	8.2
20°-30°	2643.7	10.7
30°-40°	3834.7	15.6
40°-50°	5533.2	22.5
50°-60°	6691.9	27.2
60°-70°	2727.4	11.1
70°-80°	245.1	1.0
80°-90°	0.0	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°	24629.8	100.0
0°-180°	24629.8	100.0

**Coefficient of Utilization**



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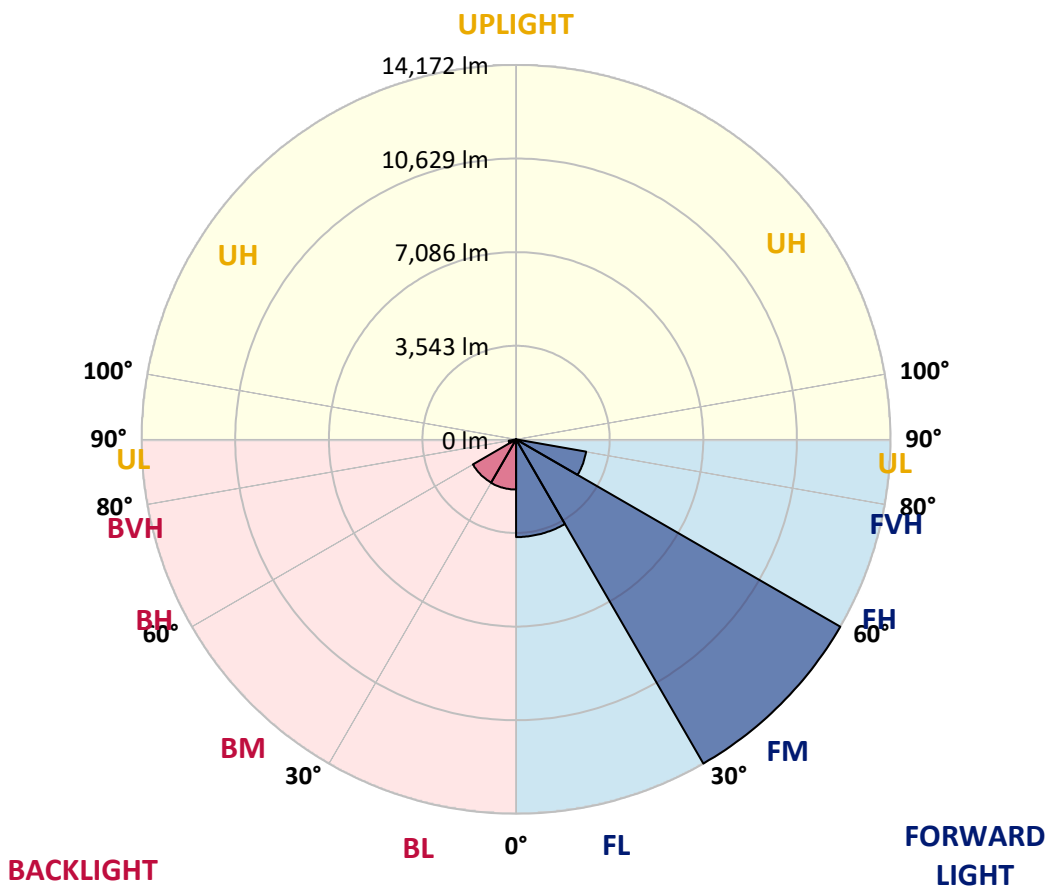
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3698.6	15.0			
FM (30°-60°)	14171.5	57.5			
FH (60°-80°)	2691.2	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1898.8	7.7	B3/2500		
BM (30°-60°)	1888.4	7.7	B2/2500		
BH (60°-80°)	281.2	1.1	B1/500		G1/500
BVH (80°-90°)	0.0	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10804.0	10804.0	10804.0	10804.0	10804.0	10804.0	10804.0	10804.0	10804.0	10804.0	10804.0
2.5°	10653.1	10677.2	10719.5	10773.8	10810.1	10828.2	10828.2	10879.5	10846.3	10819.1	10788.9
5°	10197.3	10221.4	10278.8	10366.3	10453.9	10517.3	10589.7	10644.0	10665.2	10665.2	10613.9
7.5°	9554.3	9587.5	9623.7	9744.5	9934.6	10076.5	10200.3	10278.8	10393.5	10429.7	10357.3
10°	8863.0	8896.2	8977.7	9143.7	9361.1	9572.4	9783.7	9883.3	10079.5	10182.2	10100.7
12.5°	8277.4	8292.5	8401.1	8600.4	8878.1	9167.9	9424.5	9527.1	9804.8	9958.8	9862.2
15°	7794.4	7803.4	7912.1	8132.5	8452.4	8808.7	9131.7	9237.3	9578.4	9810.9	9666.0
17.5°	7429.1	7432.1	7525.7	7764.2	8099.3	8494.7	8878.1	9007.9	9448.6	9729.4	9512.0
20°	7245.0	7235.9	7302.3	7510.6	7827.6	8223.0	8675.8	8835.8	9376.2	9717.3	9394.3
22.5°	7248.0	7226.8	7254.0	7401.9	7670.6	8041.9	8549.0	8730.2	9382.2	9768.6	9294.7
25°	7420.0	7389.9	7395.9	7474.4	7664.6	8002.7	8567.2	8760.4	9503.0	9940.7	9258.4
27.5°	7709.8	7676.6	7676.6	7715.9	7818.5	8126.4	8793.6	9013.9	9826.0	10275.8	9333.9
30°	8084.2	8051.0	8038.9	8078.1	8162.6	8446.4	9297.7	9527.1	10378.4	10825.2	9575.4
32.5°	8512.8	8473.6	8494.7	8549.0	8630.5	9023.0	9946.7	10251.6	11069.7	11564.8	10010.1
35°	8965.6	8932.4	9029.0	9146.8	9273.5	9822.9	10843.3	11108.9	11917.9	12485.5	10674.2
37.5°	9397.3	9382.2	9584.5	9832.0	10094.6	10782.9	11754.9	11960.2	12645.5	13487.7	11486.3
40°	9829.0	9826.0	10173.1	10607.8	11027.4	11739.8	12446.2	12615.3	13089.2	14266.5	12265.1
42.5°	10312.0	10312.0	10792.0	11371.6	11930.0	12548.9	12953.4	13028.8	13288.4	14716.3	12850.7
45°	10773.8	10801.0	11356.5	12029.6	12690.7	13179.8	13303.5	13309.6	13370.0	14982.0	13336.7
47.5°	11139.1	11163.3	11827.4	12603.2	13315.6	13659.8	13677.9	13650.7	13584.3	15235.5	13711.1
50°	11434.9	11471.2	12165.5	12986.6	13744.3	14121.6	14260.5	14233.3	14064.3	15507.2	13973.7
52.5°	11579.8	11631.2	12283.2	13176.8	14221.2	14912.5	15298.9	15362.3	14782.7	15658.2	14224.3
55°	10420.7	10496.1	11096.9	12319.4	14486.9	16135.1	16741.9	16729.8	15561.6	16107.9	14834.0
57.5°	7869.8	7863.8	8361.9	9699.2	12373.8	16204.5	17629.4	17605.2	16289.1	16630.2	15458.9
60°	5358.2	5322.0	5454.8	6100.9	8651.7	13200.9	16044.5	16370.6	15772.9	15362.3	13125.4
62.5°	4410.4	4377.2	4334.9	4156.8	4968.8	8223.0	11084.8	11579.8	11501.4	10677.2	8232.1
65°	3610.4	3637.6	3755.3	3679.8	3456.4	4217.2	5753.7	6046.5	5527.3	4651.9	2876.8
67.5°	2662.5	2674.6	2828.5	3227.0	3106.3	2807.4	2707.8	2756.1	1615.0	742.6	480.0
70°	1572.8	1581.8	1723.7	2258.0	2520.6	2155.4	1829.4	1802.2	640.0	199.2	217.3
72.5°	890.5	872.4	899.6	1074.7	1373.5	1144.1	941.8	857.3	193.2	111.7	111.7
75°	422.6	410.5	353.2	332.1	301.9	193.2	120.7	102.6	48.3	45.3	45.3
77.5°	3.0	9.1	6.0	9.1	9.1	6.0	3.0	3.0	9.1	9.1	12.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	10804.0	10804.0	10804.0	10804.0	10804.0	10804.0	10804.0	10804.0	10804.0	10804.0	10804.0
2.5°	10734.6	10644.0	10622.9	10616.9	10532.3	10441.8	10348.2	10312.0	10257.6	10224.4	10251.6
5°	10532.3	10402.5	10287.8	10182.2	9995.0	9789.7	9611.6	9496.9	9388.3	9315.8	9333.9
7.5°	10245.6	10076.5	9813.9	9545.2	9201.1	8893.2	8549.0	8337.7	8141.5	8032.8	8084.2
10°	9940.7	9717.3	9297.7	8841.9	8301.5	7818.5	7326.5	6925.0	6692.5	6472.2	6496.3
12.5°	9641.8	9346.0	8718.1	8026.8	7344.6	6632.1	5889.5	5334.1	4953.7	4679.0	4636.8
15°	9364.1	8983.7	8153.6	7241.9	6312.2	5364.3	4416.4	3622.5	3181.7	2910.1	2891.9
17.5°	9116.6	8645.6	7568.0	6420.8	5255.6	4042.1	2952.3	2357.6	2104.1	1986.3	1974.2
20°	8878.1	8304.5	6970.2	5587.7	4102.5	2837.6	2037.6	1762.9	1681.4	1633.1	1639.2
22.5°	8648.7	7933.2	6342.4	4663.9	3076.1	1992.4	1578.8	1473.1	1464.1	1470.1	1473.1
25°	8455.5	7592.1	5696.3	3773.4	2194.6	1518.4	1319.2	1289.0	1316.2	1355.4	1361.4
27.5°	8355.8	7314.4	5065.4	2876.8	1587.9	1234.7	1144.1	1156.2	1204.5	1246.7	1252.8
30°	8383.0	7106.1	4413.4	2085.9	1222.6	1041.5	1011.3	1035.4	1083.7	1123.0	1129.0
32.5°	8576.2	7000.4	3746.2	1518.4	1005.2	908.6	896.6	914.7	956.9	987.1	990.1
35°	8959.6	7024.6	3112.3	1162.2	863.4	809.0	806.0	818.1	839.2	860.3	863.4
37.5°	9524.1	7220.8	2487.4	966.0	781.9	742.6	730.5	730.5	745.6	754.7	760.7
40°	10130.9	7516.6	1992.4	854.3	724.5	682.2	658.1	649.0	661.1	673.2	676.2
42.5°	10632.0	7812.5	1618.0	775.8	679.2	621.9	591.7	585.6	600.7	621.9	627.9
45°	11015.3	8041.9	1349.4	712.4	627.9	564.5	531.3	531.3	558.5	594.7	600.7
47.5°	11365.5	8226.0	1150.1	655.1	579.6	513.2	480.0	486.0	531.3	579.6	588.7
50°	11604.0	8374.0	1002.2	603.7	540.4	470.9	440.7	452.8	507.1	564.5	573.6
52.5°	11860.6	8555.1	905.6	558.5	504.1	437.7	410.5	419.6	480.0	543.4	555.4
55°	12570.0	9161.8	902.6	498.1	440.7	392.4	380.4	383.4	443.8	516.2	531.3
57.5°	13149.6	9696.2	963.0	419.6	368.3	344.1	338.1	341.1	395.5	477.0	495.1
60°	10879.5	7534.7	796.9	347.2	307.9	301.9	292.8	298.9	350.2	422.6	437.7
62.5°	6439.0	4307.7	380.4	265.6	262.6	256.6	247.5	259.6	307.9	371.3	380.4
65°	2200.7	1276.9	241.5	217.3	223.4	214.3	205.3	217.3	259.6	295.8	298.9
67.5°	422.6	338.1	193.2	181.1	184.1	166.0	163.0	175.1	199.2	205.3	202.3
70°	220.4	196.2	147.9	147.9	141.9	117.7	117.7	129.8	129.8	120.7	117.7
72.5°	114.7	108.7	96.6	108.7	90.6	72.4	72.4	78.5	72.4	60.4	60.4
75°	45.3	45.3	42.3	54.3	39.2	33.2	30.2	36.2	27.2	21.1	21.1
77.5°	12.1	12.1	12.1	15.1	9.1	9.1	6.0	6.0	3.0	0.0	0.0
80°	0.0	3.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

(END OF REPORT)