

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: P637896

Luminaire Tested: GWS-SA4D-760-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637896  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-760-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21661.3 lumens  
Efficiency: N/A  
Efficacy: 133.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 162.1  
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

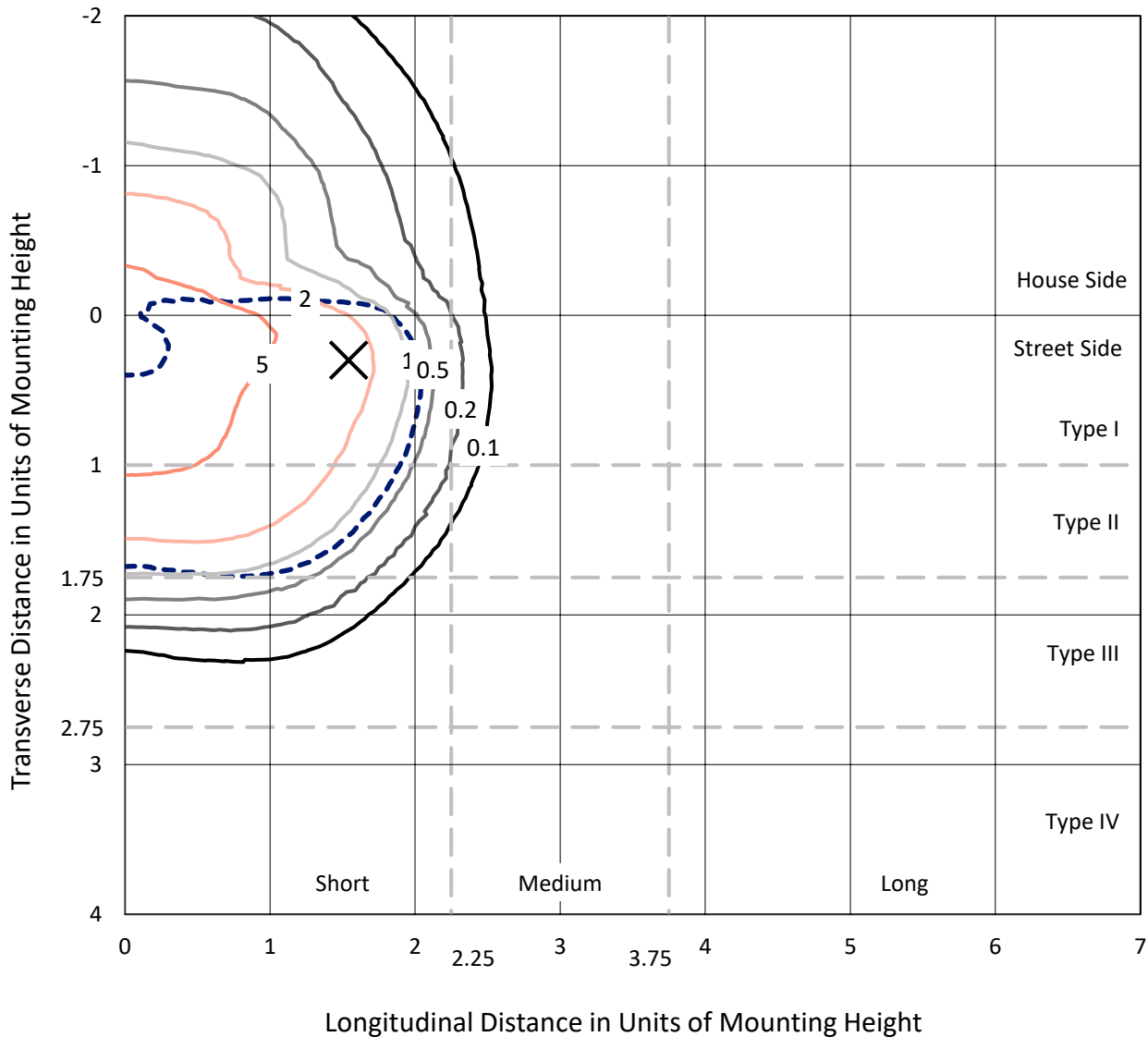


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### Iso-Footcandle Lines of Horizontal Illumination

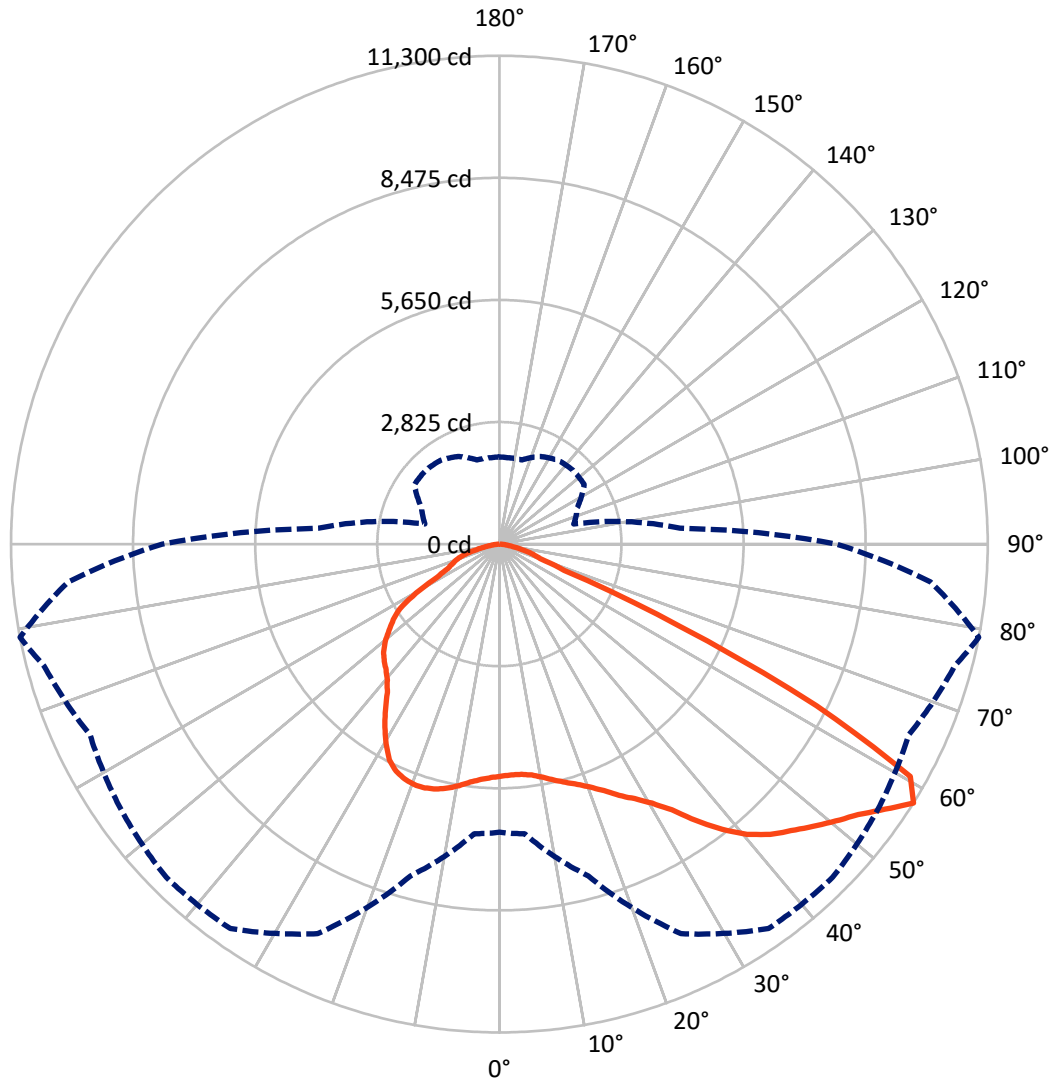
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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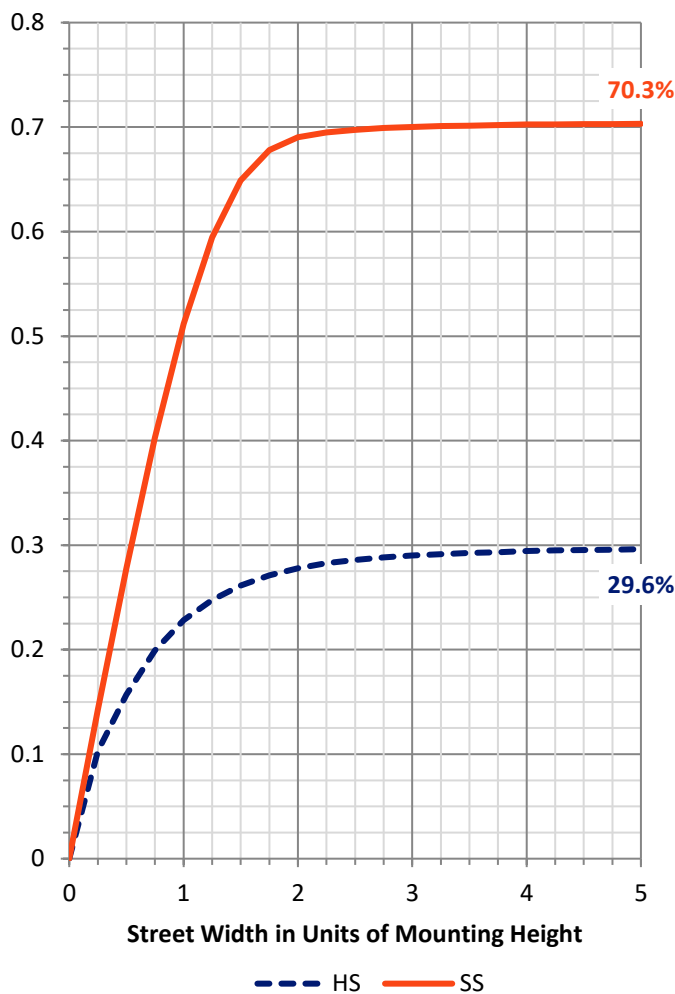
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6438.9	0.0	6438.9
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	15222.4	0.0	15222.4
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	21661.3	0.0	21661.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	497.1	2.3
10°-20°	1381.5	6.4
20°-30°	2341.8	10.8
30°-40°	3584.4	16.5
40°-50°	4779.5	22.1
50°-60°	5519.9	25.5
60°-70°	2868.3	13.2
70°-80°	609.7	2.8
80°-90°	79.0	0.4
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°	21661.3	100.0
0°-180°	21661.3	100.0

**Coefficient of Utilization**



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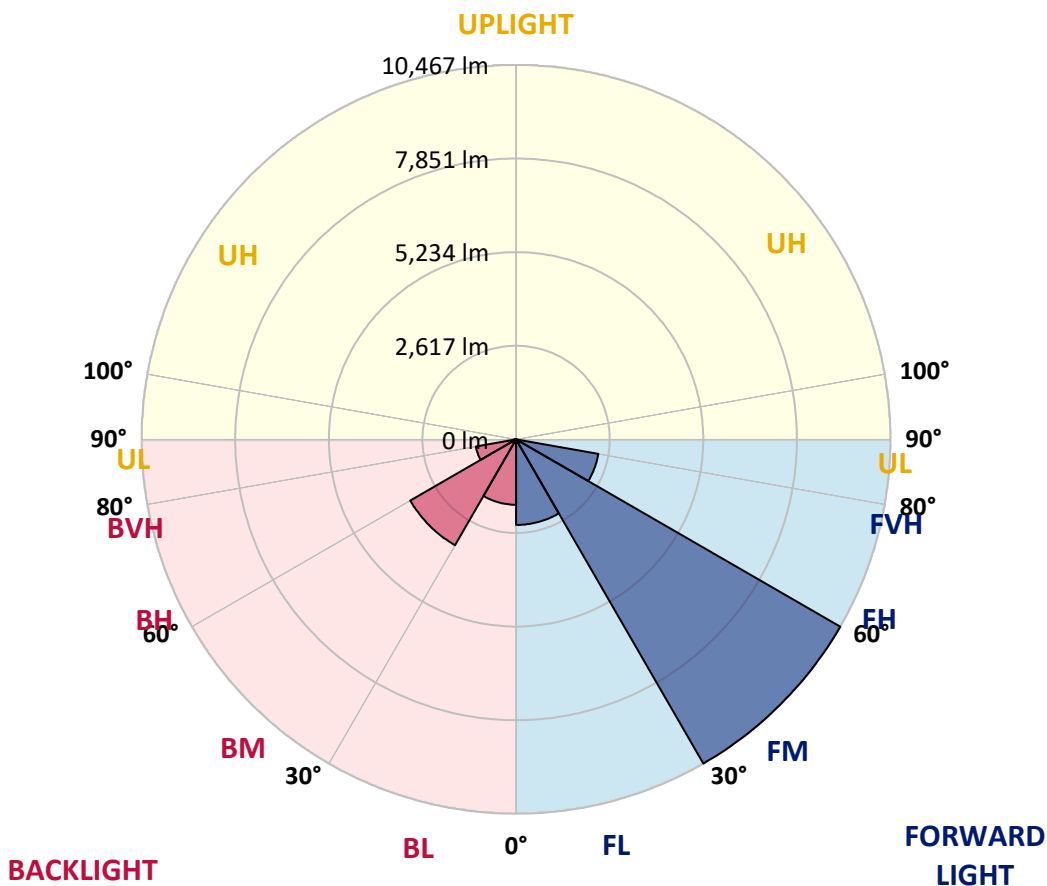
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2391.9	11.0			
FM (30°-60°)	10467.4	48.3			
FH (60°-80°)	2335.6	10.8			G2/5000
FVH (80°-90°)	27.5	0.1			G1/100
BL (0°-30°)	1828.6	8.4	B3/2500		
BM (30°-60°)	3416.4	15.8	B3/5000		
BH (60°-80°)	1142.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	51.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5368.2	5368.2	5368.2	5368.2	5368.2	5368.2	5368.2	5368.2	5368.2	5368.2	5368.2
2.5°	5123.8	5113.1	5116.7	5130.8	5184.0	5222.9	5263.7	5300.9	5336.3	5346.9	5355.8
5°	4941.3	4921.9	4927.2	4950.2	5012.2	5077.7	5150.3	5238.9	5323.9	5352.2	5389.4
7.5°	4812.0	4808.5	4817.4	4852.8	4918.3	4980.3	5074.2	5199.9	5346.9	5394.7	5460.3
10°	4640.3	4633.2	4668.6	4741.2	4849.2	4948.4	5060.0	5208.8	5414.2	5485.1	5586.0
12.5°	4503.9	4500.3	4537.5	4638.5	4776.6	4934.3	5088.3	5254.8	5504.5	5602.0	5725.9
15°	4583.6	4567.6	4569.4	4640.3	4764.2	4950.2	5159.2	5338.1	5594.9	5718.8	5878.2
17.5°	4815.6	4787.3	4766.0	4778.4	4849.2	5042.3	5267.2	5449.6	5699.4	5844.6	6039.4
20°	5136.2	5120.2	5061.8	5022.8	5038.7	5208.8	5437.2	5607.3	5835.7	5998.7	6207.7
22.5°	5566.5	5527.6	5447.9	5385.9	5338.1	5470.9	5681.7	5828.7	6025.2	6195.3	6413.1
25°	6099.6	6043.0	5917.2	5819.8	5717.1	5853.4	6041.2	6152.8	6285.6	6443.2	6650.4
27.5°	6643.4	6595.5	6455.6	6324.6	6197.0	6282.1	6505.2	6569.0	6554.8	6669.9	6847.0
30°	7222.5	7162.3	7029.5	6887.8	6723.1	6778.0	6978.1	7010.0	6859.4	6955.1	7075.5
32.5°	7833.5	7775.1	7660.0	7495.2	7309.3	7330.5	7385.4	7415.5	7272.1	7327.0	7419.1
35°	8455.2	8400.3	8283.4	8120.4	7984.1	7854.8	7716.6	7837.1	7753.8	7860.1	7853.0
37.5°	9023.7	8968.8	8896.2	8770.4	8536.6	8281.6	7962.8	8111.6	8240.9	8375.5	8352.5
40°	9408.0	9370.8	9388.5	9369.1	9068.0	8563.2	8083.3	8246.2	8598.6	8828.9	8816.5
42.5°	9739.2	9702.0	9804.7	9879.1	9524.9	8823.6	8141.7	8297.6	8827.1	9186.6	9168.9
45°	9886.2	9875.6	10045.6	10281.2	9942.9	9099.9	8292.2	8403.8	9000.7	9461.2	9393.9
47.5°	9710.9	9748.1	10082.8	10481.3	10290.0	9427.5	8600.4	8628.7	9227.4	9758.7	9569.2
50°	9362.0	9443.4	9895.1	10486.6	10543.3	9797.7	9027.2	8956.4	9532.0	10075.7	9661.3
52.5°	8853.7	8938.7	9675.5	10445.9	10688.5	10226.3	9595.8	9494.8	9916.3	10392.8	9677.2
55°	7686.5	7801.6	9172.5	10353.8	10830.2	10615.9	10236.9	10031.4	10412.2	10828.4	9834.9
57.5°	6668.2	6728.4	7946.9	9944.7	10858.5	10902.8	10693.8	10449.4	10904.6	11299.5	10012.0
60°	4893.5	4907.7	6004.0	8228.5	9988.9	10736.3	10656.6	10293.6	10670.8	10922.3	9200.8
62.5°	2764.7	2766.4	3641.4	5492.1	7461.6	8751.0	8800.5	8480.0	8162.9	8237.3	6404.3
65°	1037.9	1135.3	1663.1	2699.1	4302.0	5166.3	5371.7	5446.1	4918.3	4590.7	3434.1
67.5°	694.3	717.3	970.6	1388.5	1914.5	2210.3	2472.4	2479.5	1813.6	1617.0	1353.1
70°	529.6	552.6	763.3	993.6	970.6	896.2	968.8	942.2	974.1	1000.7	1029.0
72.5°	395.0	418.0	591.5	701.4	582.7	573.8	650.0	722.6	789.9	818.2	862.5
75°	262.1	279.8	398.5	375.5	322.3	380.8	474.7	547.3	586.2	619.9	653.5
77.5°	166.5	178.9	212.5	171.8	178.9	223.2	276.3	341.8	379.0	412.7	430.4
80°	76.2	74.4	72.6	81.5	101.0	131.1	166.5	205.4	233.8	248.0	258.6
82.5°	30.1	33.7	37.2	44.3	54.9	70.8	93.9	120.4	143.5	147.0	155.9
85°	12.4	14.2	15.9	19.5	24.8	31.9	39.0	54.9	69.1	74.4	79.7
87.5°	0.0	0.0	0.0	0.0	1.8	3.5	5.3	8.9	15.9	17.7	19.5
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°	5368.2	5368.2	5368.2	5368.2	5368.2	5368.2	5368.2	5368.2	5368.2	5368.2	5368.2
2.5°	5403.6	5380.6	5419.5	5446.1	5470.9	5444.3	5435.5	5412.4	5408.9	5408.9	5421.3
5°	5453.2	5437.2	5478.0	5493.9	5492.1	5433.7	5398.3	5352.2	5329.2	5329.2	5332.7
7.5°	5541.7	5532.9	5555.9	5531.1	5474.4	5355.8	5238.9	5141.5	5075.9	5042.3	5052.9
10°	5688.7	5678.1	5658.6	5566.5	5403.6	5157.4	4918.3	4741.2	4634.9	4574.7	4578.3
12.5°	5832.2	5814.5	5745.4	5541.7	5207.0	4815.6	4502.1	4303.7	4186.9	4116.0	4100.1
15°	5989.8	5943.8	5795.0	5414.2	4886.4	4397.6	4070.0	3855.7	3729.9	3687.4	3685.6
17.5°	6140.4	6058.9	5789.7	5187.5	4502.1	3960.2	3630.7	3497.9	3476.6	3496.1	3501.4
20°	6292.7	6161.6	5731.2	4874.0	4045.2	3524.5	3354.4	3409.3	3489.0	3542.2	3554.6
22.5°	6450.3	6246.6	5598.4	4470.2	3563.4	3230.5	3301.3	3421.7	3520.9	3591.8	3598.9
25°	6627.4	6326.3	5400.1	3976.1	3177.3	3149.0	3288.9	3416.4	3522.7	3604.2	3618.3
27.5°	6728.4	6328.1	5122.0	3467.8	3000.2	3117.1	3258.8	3379.2	3485.5	3574.1	3590.0
30°	6827.5	6280.3	4681.0	3055.1	2948.9	3079.9	3207.4	3319.0	3420.0	3506.8	3526.2
32.5°	6967.5	6236.0	4172.7	2817.8	2918.8	3044.5	3149.0	3248.2	3326.1	3365.1	3375.7
35°	7141.0	6179.3	3632.5	2715.1	2899.3	3016.2	3108.3	3161.4	3060.4	3039.2	3062.2
37.5°	7383.7	6126.2	3094.1	2670.8	2886.9	3005.5	3087.0	2950.6	2826.7	2777.1	2794.8
40°	7645.8	6096.1	2729.2	2635.4	2892.2	3016.2	2998.5	2796.5	2617.7	2513.2	2509.6
42.5°	7868.9	6050.0	2495.5	2612.4	2906.4	3056.9	2878.0	2660.2	2394.5	2332.5	2334.3
45°	8019.5	5933.1	2371.5	2587.6	2918.8	3065.8	2821.3	2472.4	2282.9	2244.0	2242.2
47.5°	8081.5	5720.6	2291.8	2548.6	2917.0	2993.1	2706.2	2394.5	2205.0	2194.4	2201.5
50°	8040.7	5371.7	2210.3	2472.4	2874.5	2917.0	2573.4	2325.4	2151.9	2210.3	2252.8
52.5°	7890.2	4920.1	2112.9	2367.9	2798.3	2830.2	2506.1	2282.9	2112.9	2190.8	2224.5
55°	7851.2	4553.5	1988.9	2231.6	2685.0	2676.1	2435.2	2261.7	2086.3	2056.2	2061.5
57.5°	7799.9	4195.7	1783.5	1987.2	2398.1	2412.2	2367.9	2236.9	2017.3	2008.4	2017.3
60°	6776.2	3216.3	1590.4	1714.4	1969.5	2045.6	2291.8	2190.8	1905.7	1868.5	1866.7
62.5°	4426.0	1948.2	1415.1	1494.8	1604.6	1693.2	2089.9	2058.0	1783.5	1760.5	1776.4
65°	2380.3	1388.5	1287.6	1335.4	1395.6	1462.9	1732.1	1833.1	1611.7	1530.2	1532.0
67.5°	1216.7	1181.3	1191.9	1225.6	1271.6	1305.3	1397.4	1485.9	1374.4	1305.3	1303.5
70°	1041.4	1069.7	1085.7	1105.2	1135.3	1130.0	1138.8	1154.8	1145.9	1112.2	1110.5
72.5°	887.3	931.6	935.1	938.7	949.3	924.5	908.6	882.0	883.8	889.1	890.9
75°	674.8	717.3	727.9	722.6	733.2	701.4	680.1	653.5	621.7	616.3	619.9
77.5°	439.2	472.9	488.8	485.3	490.6	465.8	455.2	426.8	389.6	375.5	375.5
80°	265.7	285.1	297.5	301.1	306.4	288.7	271.0	246.2	230.2	214.3	214.3
82.5°	161.2	173.6	182.4	182.4	187.7	168.3	154.1	136.4	129.3	115.1	115.1
85°	81.5	90.3	93.9	92.1	88.6	72.6	67.3	58.4	54.9	47.8	47.8
87.5°	19.5	24.8	24.8	17.7	17.7	8.9	5.3	1.8	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)