

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: P637884

Luminaire Tested: GWS-SA4D-760-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637884  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-760-U-T2-W-GRSW  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

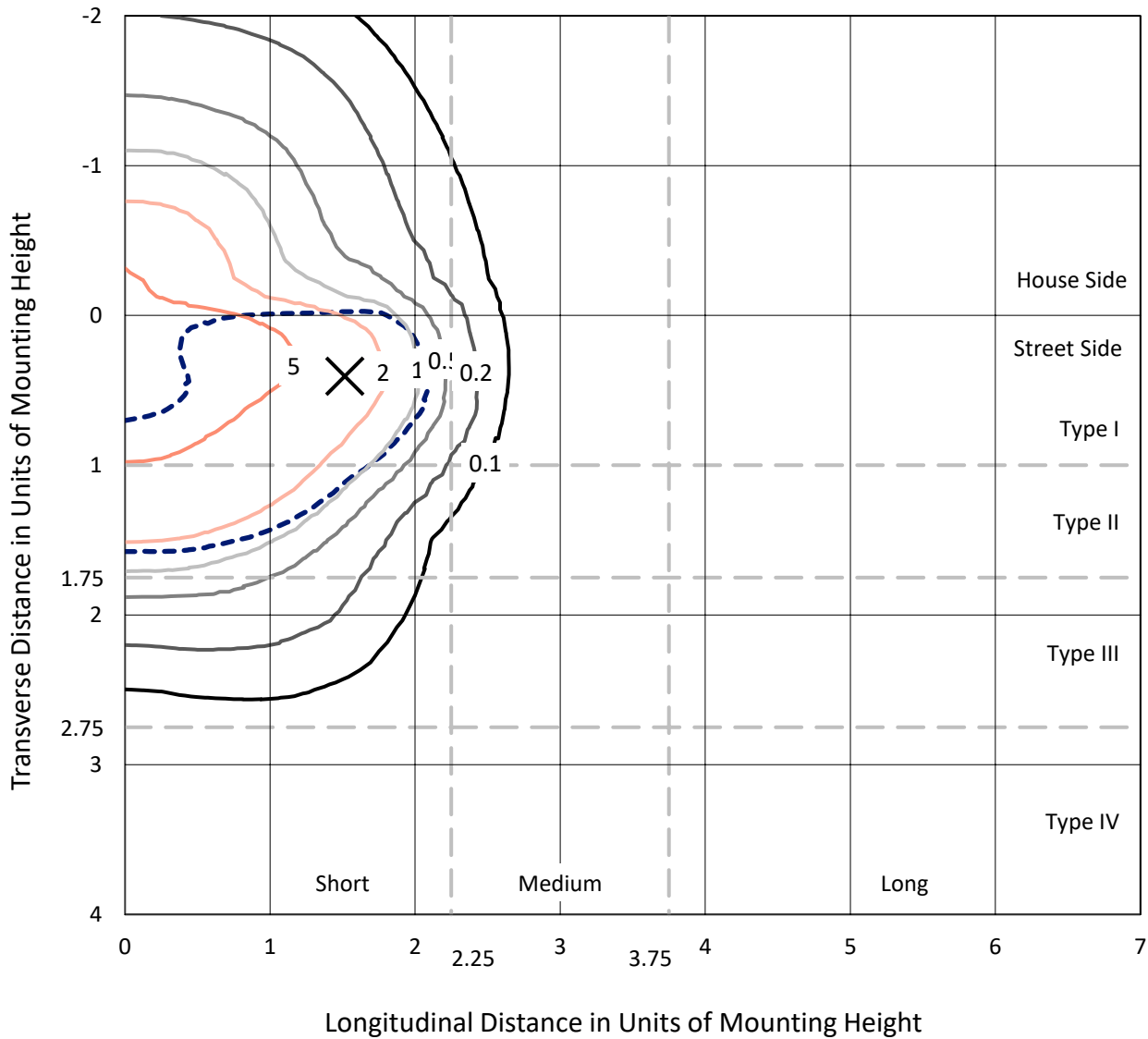
Lumens per Lamp: N/A  
Luminaire Lumens: 20598.6 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

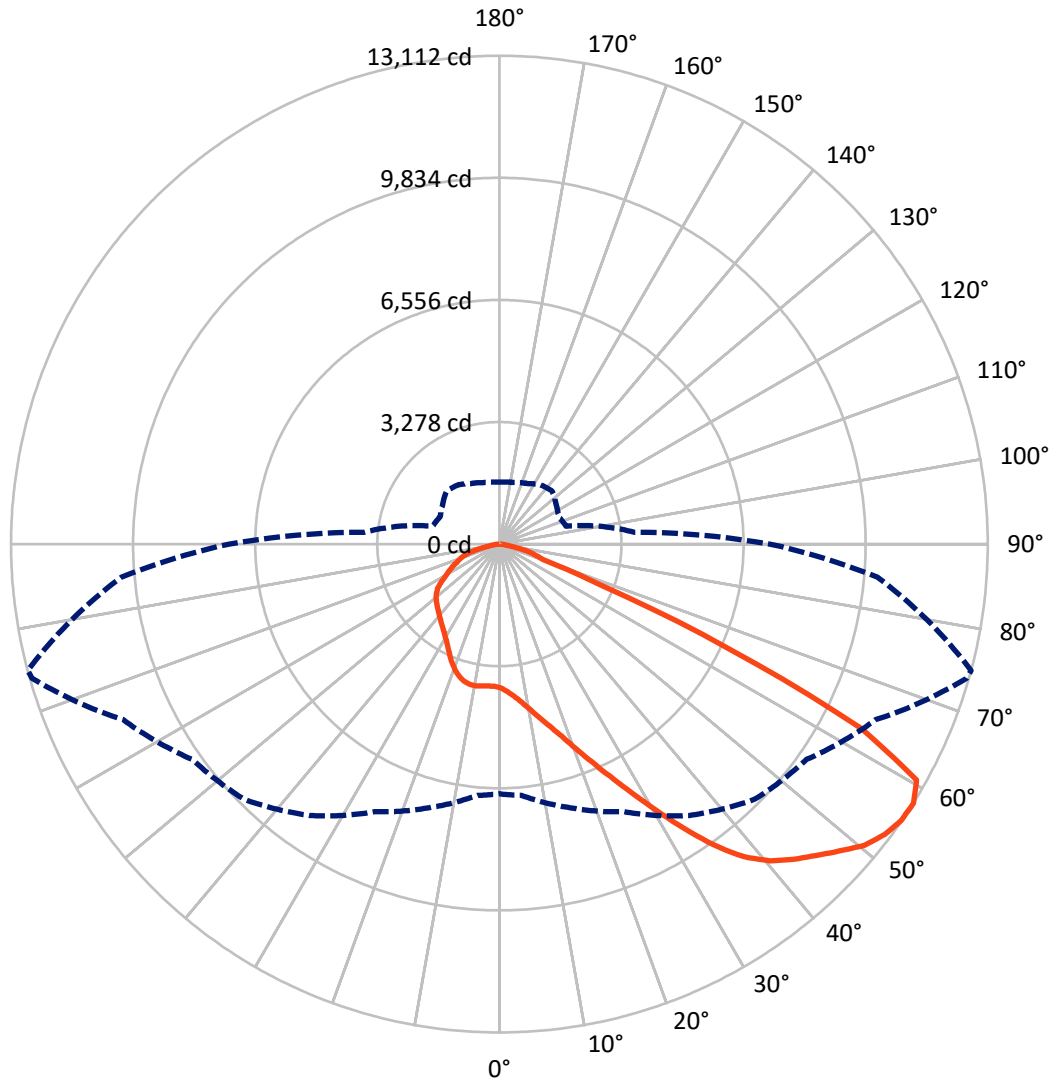
✕ Max cd  
 - - - 1/2 Max cd



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 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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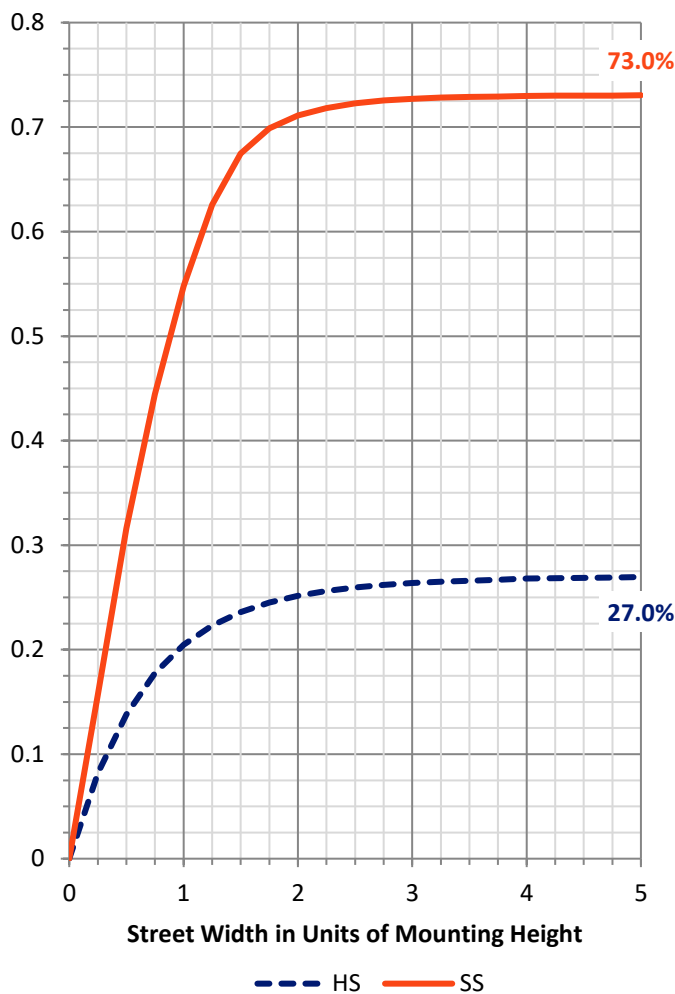
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5572.3	0.0	5572.3
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	15026.3	0.0	15026.3
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	20598.6	0.0	20598.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	386.0	1.9
10°-20°	1229.0	6.0
20°-30°	2179.7	10.6
30°-40°	3336.7	16.2
40°-50°	4646.1	22.6
50°-60°	5323.5	25.8
60°-70°	2735.3	13.3
70°-80°	688.6	3.3
80°-90°	73.6	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°	20598.6	100.0
0°-180°	20598.6	100.0

**Coefficient of Utilization**



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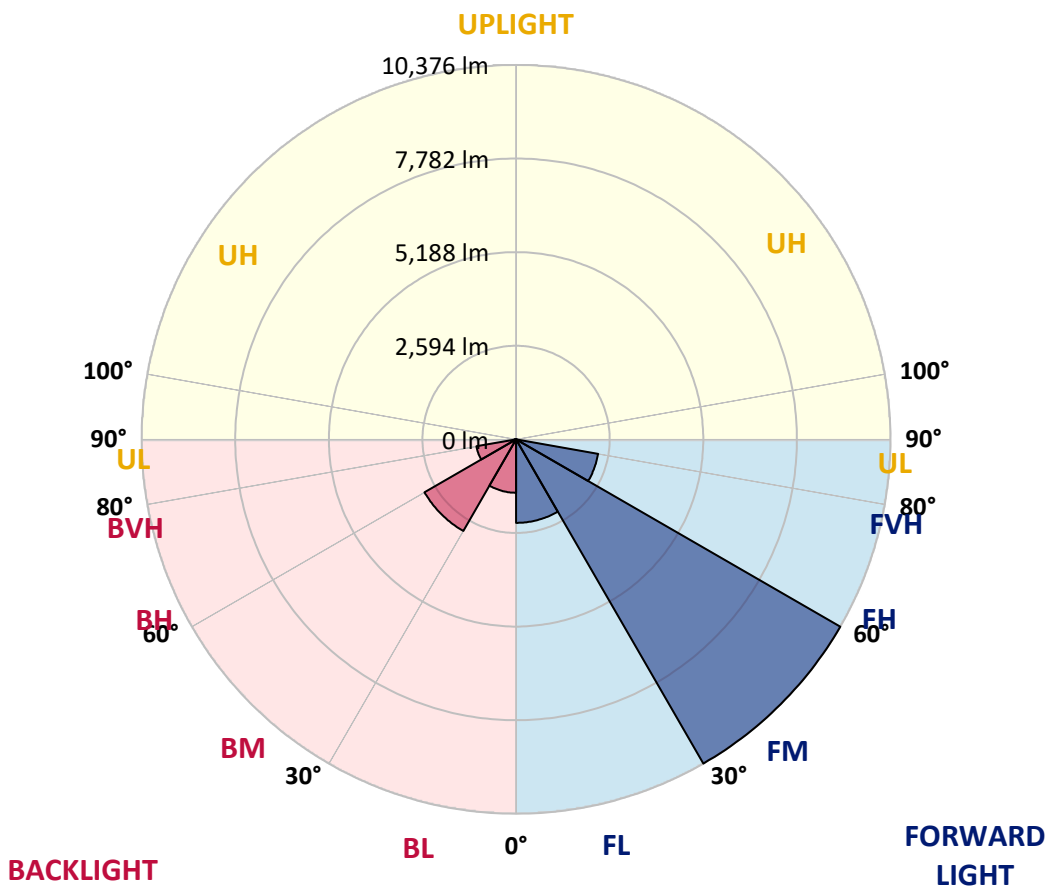
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2314.4	11.2			
FM (30°-60°)	10375.8	50.4			
FH (60°-80°)	2308.9	11.2			G2/5000
FVH (80°-90°)	27.2	0.1			G1/100
BL (0°-30°)	1480.4	7.2	B3/2500		
BM (30°-60°)	2930.5	14.2	B3/5000		
BH (60°-80°)	1115.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	46.4	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°	74°	75°	85°
0°	3857.6	3857.6	3857.6	3857.6	3857.6	3857.6	3857.6	3857.6	3857.6	3857.6	3857.6
2.5°	4144.6	4155.2	4144.6	4162.3	4126.8	4110.9	4071.9	4013.5	3967.4	3960.4	3909.0
5°	4466.9	4489.9	4475.8	4468.7	4420.9	4385.4	4327.0	4210.1	4114.4	4100.3	3999.3
7.5°	4674.1	4690.1	4690.1	4695.4	4677.7	4636.9	4574.9	4436.8	4302.2	4280.9	4128.6
10°	4743.2	4755.6	4778.6	4822.9	4858.3	4870.7	4830.0	4697.2	4532.4	4511.2	4298.6
12.5°	4759.2	4773.3	4808.7	4890.2	4987.6	5076.2	5083.3	4985.9	4801.7	4778.6	4495.2
15°	4789.3	4803.4	4851.3	4952.2	5095.7	5265.7	5370.2	5302.9	5099.2	5074.4	4718.4
17.5°	4785.7	4801.7	4872.5	5007.1	5200.2	5446.4	5648.3	5676.6	5465.9	5423.3	4971.7
20°	4776.9	4791.0	4867.2	5031.9	5271.0	5609.3	5974.2	6121.2	5894.5	5855.5	5267.5
22.5°	4847.7	4863.7	4922.1	5058.5	5308.2	5735.1	6275.3	6629.5	6402.8	6347.9	5607.5
25°	5007.1	5030.1	5065.6	5159.4	5375.5	5846.7	6583.5	7205.1	6973.1	6907.6	5977.7
27.5°	5253.3	5281.6	5331.2	5375.5	5526.1	5988.3	6889.9	7849.9	7617.8	7548.8	6369.2
30°	5554.4	5591.6	5655.4	5685.5	5788.2	6197.3	7222.9	8514.0	8379.4	8283.8	6810.2
32.5°	5970.6	6022.0	6082.2	6091.1	6153.1	6514.4	7552.3	9172.9	9171.2	9103.8	7311.4
35°	6512.6	6567.5	6579.9	6592.3	6622.4	6950.1	7950.8	9773.4	10005.4	9927.4	7856.9
37.5°	7104.2	7183.9	7203.4	7148.5	7191.0	7474.4	8398.9	10255.1	10731.6	10648.3	8384.8
40°	7736.5	7768.4	7821.5	7734.7	7787.9	8074.8	8838.2	10563.3	11273.5	11185.0	8801.0
42.5°	8189.9	8248.4	8328.1	8296.2	8326.3	8588.4	9146.4	10712.1	11659.7	11571.1	9100.3
45°	8682.3	8700.0	8751.4	8744.3	8762.0	9006.4	9367.8	10777.6	12005.0	11925.3	9355.4
47.5°	9110.9	9137.5	9171.2	9132.2	9093.2	9252.6	9548.4	10834.3	12403.6	12307.9	9622.8
50°	9523.6	9546.6	9587.4	9474.0	9328.8	9369.5	9637.0	10912.2	12777.3	12710.0	9833.6
52.5°	9599.8	9624.6	9815.9	9838.9	9652.9	9509.4	9792.8	11084.0	12996.9	12954.4	9909.7
55°	8641.6	8685.9	9066.7	9504.1	9962.9	9916.8	10042.6	11174.4	13083.7	13094.3	10046.1
57.5°	6707.4	6771.2	7327.4	7927.8	8893.1	9691.9	10074.5	11151.3	13053.6	13112.0	10186.0
60°	4399.6	4436.8	5095.7	5768.7	6769.4	7874.7	9017.1	10736.9	12786.1	12869.4	10150.6
62.5°	2656.8	2699.3	3228.9	3739.0	4328.8	5067.3	6115.9	8629.2	10717.4	10903.4	8129.7
65°	1854.4	1911.1	2375.1	2794.9	2998.6	2846.3	3097.8	4819.4	6677.3	6755.3	4968.2
67.5°	1344.3	1383.3	1764.1	2263.6	2488.5	2010.3	1532.1	2134.3	2908.3	2936.6	2049.3
70°	880.3	924.6	1269.9	1723.4	2031.5	1629.5	1146.0	1154.8	1223.9	1238.1	1190.2
72.5°	483.5	510.1	784.6	1144.2	1200.9	974.1	894.4	960.0	1007.8	1007.8	1020.2
75°	249.7	272.8	320.6	377.3	455.2	533.1	644.7	742.1	793.5	797.0	791.7
77.5°	127.5	136.4	171.8	186.0	203.7	237.3	308.2	395.0	441.0	458.7	455.2
80°	60.2	63.8	72.6	85.0	104.5	132.8	166.5	198.4	226.7	230.3	249.7
82.5°	31.9	35.4	39.0	46.1	56.7	70.8	97.4	116.9	134.6	138.2	154.1
85°	12.4	14.2	15.9	17.7	24.8	30.1	40.7	54.9	67.3	67.3	79.7
87.5°	0.0	0.0	0.0	0.0	1.8	3.5	7.1	8.9	12.4	12.4	21.3
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°	3857.6	3857.6	3857.6	3857.6	3857.6	3857.6	3857.6	3857.6	3857.6	3857.6	3857.6
2.5°	3896.6	3845.2	3822.2	3785.0	3754.9	3721.2	3694.7	3675.2	3662.8	3655.7	3648.6
5°	3960.4	3882.4	3820.4	3746.0	3694.7	3645.1	3604.3	3576.0	3561.8	3551.2	3544.1
7.5°	4059.5	3955.0	3838.1	3723.0	3632.7	3553.0	3501.6	3471.5	3452.0	3444.9	3439.6
10°	4195.9	4050.7	3857.6	3675.2	3540.6	3453.8	3418.4	3404.2	3406.0	3402.4	3400.7
12.5°	4350.0	4151.6	3852.3	3590.2	3441.4	3390.0	3391.8	3414.8	3441.4	3448.5	3450.3
15°	4516.5	4250.8	3800.9	3480.4	3363.5	3368.8	3414.8	3469.7	3519.3	3538.8	3542.4
17.5°	4697.2	4334.1	3707.1	3359.9	3299.7	3356.4	3441.4	3531.7	3604.3	3636.2	3645.1
20°	4899.1	4404.9	3574.2	3241.3	3239.5	3333.4	3457.3	3576.0	3668.1	3710.6	3717.7
22.5°	5113.4	4449.2	3411.3	3131.4	3177.5	3303.2	3444.9	3568.9	3666.3	3708.8	3717.7
25°	5329.5	4463.4	3232.4	3030.5	3113.7	3255.4	3384.7	3483.9	3576.0	3613.2	3620.3
27.5°	5531.4	4422.6	3062.4	2943.7	3055.3	3184.6	3271.4	3324.5	3388.3	3416.6	3421.9
30°	5736.8	4341.2	2918.9	2874.6	2989.7	3087.2	3126.1	3129.7	3154.5	3154.5	3158.0
32.5°	5944.1	4220.7	2793.1	2807.3	2908.3	2972.0	2977.3	2936.6	2906.5	2856.9	2855.1
35°	6183.2	4098.5	2690.4	2731.2	2812.6	2851.6	2835.7	2757.7	2685.1	2603.6	2600.1
37.5°	6404.6	3972.7	2603.6	2653.2	2704.6	2732.9	2695.7	2601.9	2541.6	2458.4	2446.0
40°	6587.0	3859.4	2520.4	2571.7	2596.5	2621.3	2561.1	2485.0	2493.8	2447.8	2446.0
42.5°	6693.3	3749.6	2442.5	2481.4	2497.4	2515.1	2461.9	2405.3	2453.1	2417.7	2419.4
45°	6771.2	3653.9	2371.6	2385.8	2424.7	2451.3	2401.7	2338.0	2348.6	2212.2	2180.3
47.5°	6859.8	3600.8	2304.3	2290.1	2359.2	2405.3	2329.1	2237.0	2173.2	2038.6	2026.2
50°	6953.6	3581.3	2233.5	2194.5	2277.7	2322.0	2233.5	2118.3	2035.1	1962.5	1955.4
52.5°	6985.5	3579.5	2144.9	2079.4	2162.6	2224.6	2150.2	2033.3	1934.1	1863.3	1859.7
55°	7111.3	3630.9	2031.5	1921.7	1999.7	2127.2	2072.3	1904.0	1824.3	1792.4	1788.9
57.5°	7258.3	3639.8	1852.7	1749.9	1858.0	2008.5	1939.4	1794.2	1707.4	1668.4	1664.9
60°	7198.1	3421.9	1661.4	1618.9	1737.5	1896.9	1833.2	1707.4	1606.5	1569.3	1565.7
62.5°	5485.3	2415.9	1521.4	1505.5	1608.2	1735.8	1723.4	1592.3	1496.6	1470.1	1466.5
65°	3299.7	1696.8	1386.8	1385.1	1457.7	1579.9	1595.8	1489.6	1388.6	1351.4	1351.4
67.5°	1631.3	1298.3	1234.5	1225.7	1271.7	1358.5	1425.8	1339.0	1254.0	1218.6	1213.3
70°	1153.0	1144.2	1122.9	1098.1	1107.0	1142.4	1170.7	1098.1	1007.8	972.4	965.3
72.5°	997.2	998.9	984.8	965.3	958.2	933.4	908.6	855.5	800.6	763.4	766.9
75°	774.0	777.5	786.4	779.3	759.8	733.3	706.7	639.4	595.1	559.7	552.6
77.5°	451.7	469.4	497.7	490.6	494.2	457.0	446.3	380.8	340.1	315.3	310.0
80°	255.0	265.7	278.1	286.9	276.3	260.4	237.3	201.9	189.5	171.8	168.3
82.5°	154.1	164.7	170.0	177.1	173.6	152.3	134.6	111.6	101.0	92.1	90.3
85°	77.9	85.0	90.3	93.9	83.2	69.1	62.0	49.6	42.5	37.2	37.2
87.5°	19.5	21.3	24.8	21.3	19.5	8.9	7.1	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)