

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: P639872

Luminaire Tested: GWS-SA5C-760-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639872  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-760-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

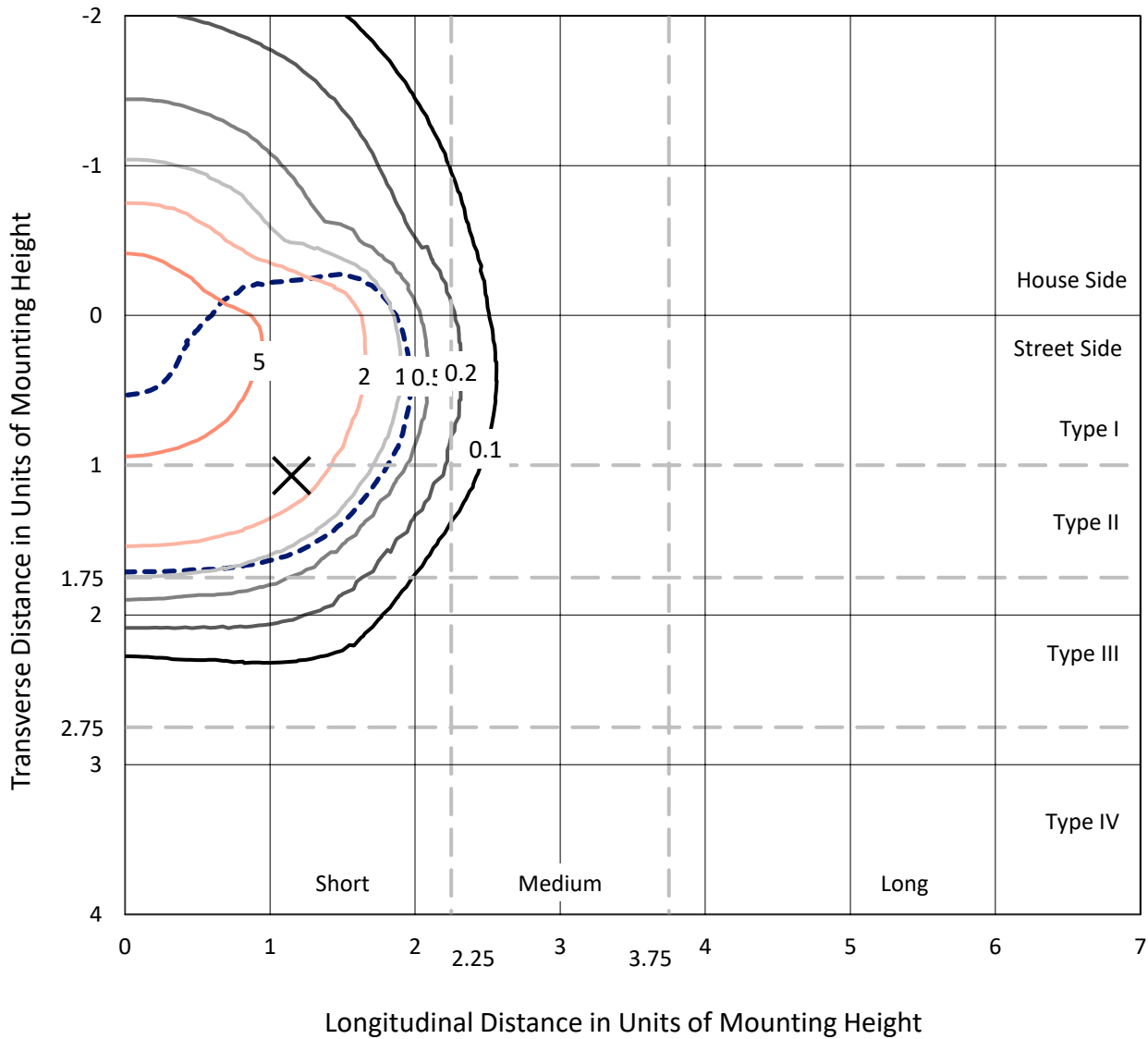
Lumens per Lamp: N/A  
Luminaire Lumens: 20504.9 lumens  
Efficiency: N/A  
Efficacy: 130.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

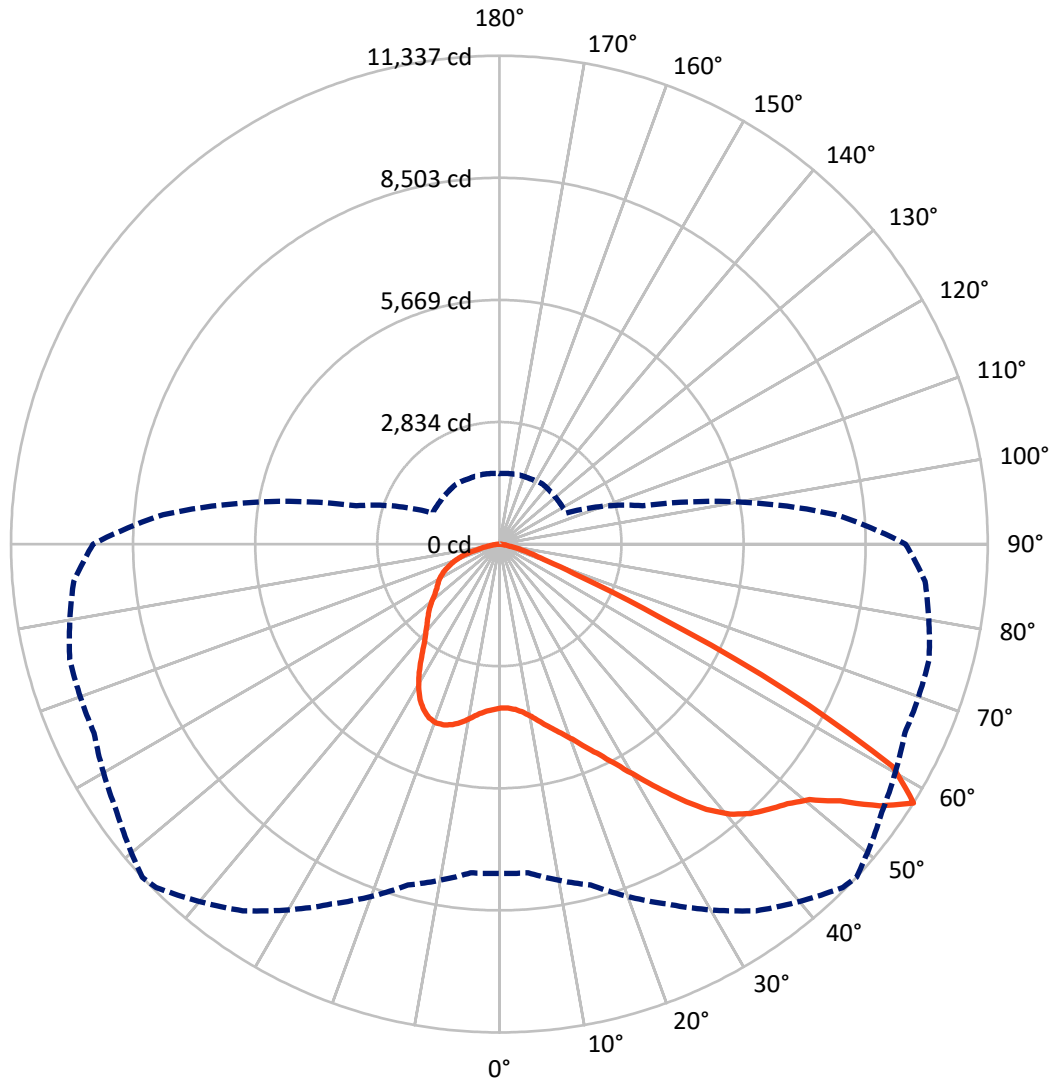
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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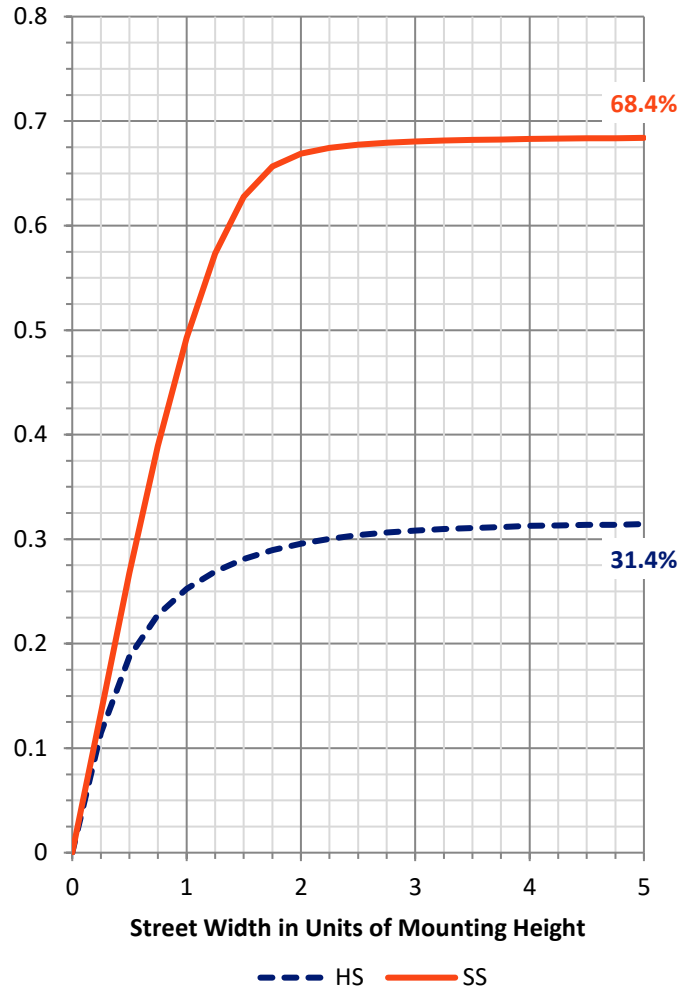
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6489.8	0.0	6489.8
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	14015.1	0.0	14015.1
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	20504.9	0.0	20504.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.1	1.8
10°-20°	1233.6	6.0
20°-30°	2221.2	10.8
30°-40°	3354.9	16.4
40°-50°	4517.8	22.0
50°-60°	5428.7	26.5
60°-70°	2643.9	12.9
70°-80°	651.4	3.2
80°-90°	78.3	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°	20504.9	100.0
0°-180°	20504.9	100.0

**Coefficient of Utilization**



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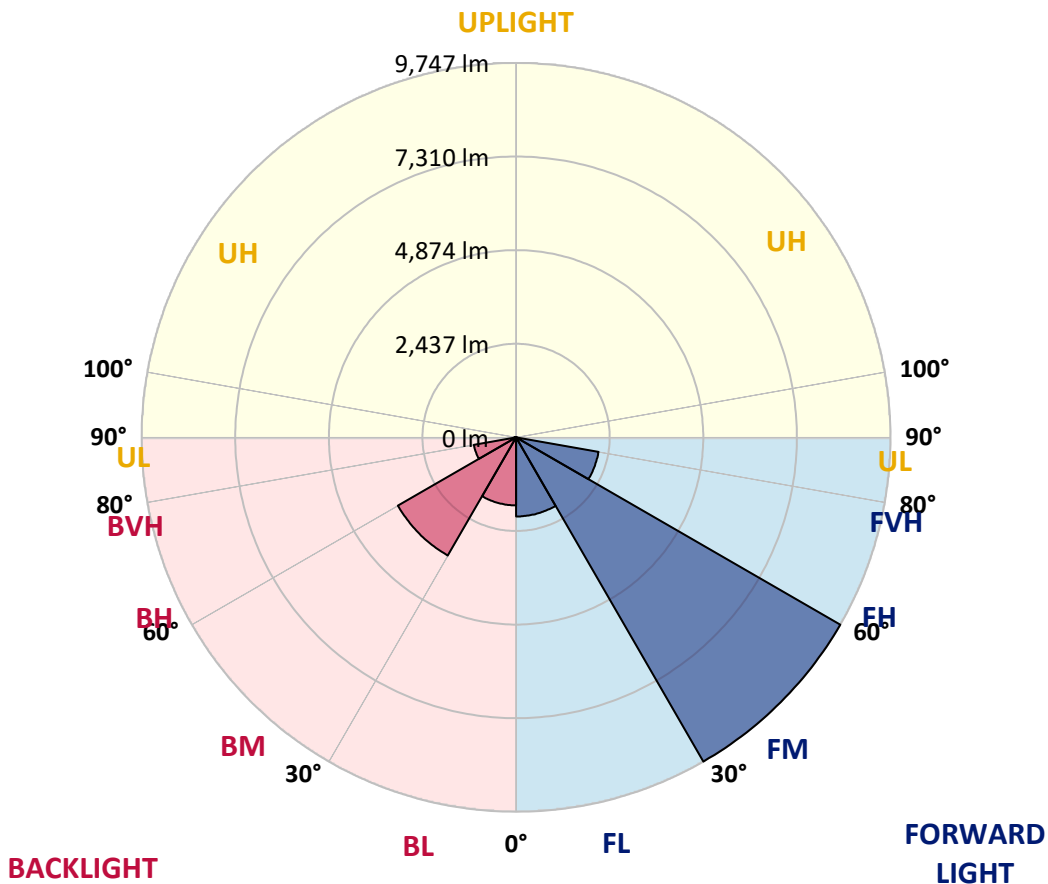
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2059.6	10.0			
FM (30°-60°)	9747.1	47.5			
FH (60°-80°)	2179.1	10.6			G2/5000
FVH (80°-90°)	29.4	0.1			G1/100
BL (0°-30°)	1770.3	8.6	B3/2500		
BM (30°-60°)	3554.4	17.3	B3/5000		
BH (60°-80°)	1116.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	48.9	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°	47°	55°	65°	75°	85°
0°	3802.7	3802.7	3802.7	3802.7	3802.7	3802.7	3802.7	3802.7	3802.7	3802.7	3802.7
2.5°	3795.8	3794.1	3794.1	3804.4	3804.4	3807.8	3813.0	3818.2	3819.9	3811.3	3792.3
5°	3837.1	3837.1	3837.1	3845.7	3845.7	3849.2	3856.1	3857.8	3856.1	3842.3	3823.3
7.5°	3902.6	3902.6	3904.3	3914.6	3923.2	3928.4	3940.4	3938.7	3933.6	3911.2	3887.1
10°	4009.3	4014.5	4019.7	4031.7	4048.9	4061.0	4069.6	4069.6	4062.7	4028.3	3997.3
12.5°	4160.9	4167.8	4172.9	4183.3	4197.1	4217.7	4236.7	4236.7	4228.1	4185.0	4138.5
15°	4338.3	4345.2	4343.4	4346.9	4372.7	4402.0	4417.5	4427.8	4431.3	4371.0	4298.7
17.5°	4541.5	4548.4	4541.5	4531.2	4534.6	4581.1	4608.7	4646.6	4668.9	4588.0	4472.6
20°	4725.8	4718.9	4718.9	4725.8	4736.1	4792.9	4834.3	4896.3	4923.8	4825.7	4646.6
22.5°	4920.4	4935.9	4929.0	4929.0	4970.3	5065.1	5115.0	5195.9	5225.2	5097.8	4856.7
25°	5171.8	5185.6	5182.2	5185.6	5233.8	5368.2	5418.1	5567.9	5597.2	5414.7	5089.2
27.5°	5447.4	5469.8	5480.1	5476.7	5554.2	5729.8	5791.8	6000.2	6053.6	5769.4	5337.2
30°	5805.6	5829.7	5838.3	5834.9	5926.2	6165.6	6236.2	6473.8	6549.6	6189.7	5652.3
32.5°	6220.7	6244.8	6270.6	6280.9	6398.0	6642.6	6744.2	6990.5	7099.0	6675.3	6032.9
35°	6632.3	6652.9	6702.9	6783.8	6944.0	7193.7	7283.3	7526.1	7631.2	7179.9	6492.8
37.5°	7086.9	7100.7	7143.8	7255.7	7486.5	7724.2	7813.7	8046.2	8058.3	7667.3	7012.9
40°	7584.7	7584.7	7576.0	7686.3	7927.4	8166.8	8244.3	8378.6	8308.0	8042.8	7519.2
42.5°	8006.6	7999.7	8006.6	8109.9	8289.0	8483.7	8550.8	8525.0	8435.4	8330.4	7977.3
45°	8387.2	8392.4	8454.4	8533.6	8626.6	8742.0	8781.6	8635.2	8554.3	8561.2	8344.2
47.5°	8645.5	8650.7	8795.4	8928.0	8984.8	9021.0	9003.8	8800.5	8759.2	8836.7	8626.6
50°	8680.0	8707.5	8957.3	9229.4	9370.6	9375.8	9327.5	9079.5	9067.5	9155.3	8778.2
52.5°	8686.9	8714.4	9026.2	9517.0	9883.8	9961.3	9906.2	9647.9	9522.2	9434.3	8964.2
55°	8661.0	8692.0	9036.5	9709.9	10412.5	10722.5	10727.7	10362.6	9961.3	9902.8	9494.6
57.5°	7646.7	7658.7	8192.6	9219.0	10391.9	11270.2	11337.4	10841.4	10383.3	10328.2	9920.0
60°	5326.8	5375.1	5955.4	7310.8	8729.9	10278.2	10495.2	10350.5	10044.0	9642.7	8511.2
62.5°	2667.7	2709.1	3291.2	4572.5	6020.9	7243.7	7476.2	7629.4	7701.8	7271.2	5795.3
65°	1148.7	1179.7	1541.4	2388.7	3408.3	3999.0	4079.9	4264.2	4715.4	4207.4	3122.4
67.5°	768.1	788.8	973.1	1457.0	2008.1	2046.0	2033.9	2073.6	2171.7	1792.8	1410.5
70°	589.0	606.2	730.2	1067.8	1443.2	1234.8	1169.4	1060.9	1152.2	1174.6	1143.6
72.5°	427.1	440.9	533.9	728.5	904.2	788.8	778.4	833.6	957.6	992.0	973.1
75°	275.6	282.4	339.3	399.6	466.7	506.3	527.0	626.9	752.6	778.4	756.1
77.5°	184.3	189.4	222.2	256.6	265.2	266.9	273.8	318.6	404.7	452.9	447.8
80°	96.4	96.4	108.5	108.5	124.0	148.1	155.0	184.3	223.9	248.0	249.7
82.5°	37.9	39.6	46.5	51.7	62.0	75.8	80.9	96.4	117.1	134.3	149.8
85°	15.5	17.2	18.9	22.4	27.6	34.4	36.2	41.3	55.1	68.9	77.5
87.5°	0.0	0.0	1.7	1.7	3.4	5.2	5.2	6.9	8.6	15.5	20.7
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°	3802.7	3802.7	3802.7	3802.7	3802.7	3802.7	3802.7	3802.7	3802.7	3802.7	3802.7
2.5°	3814.7	3792.3	3814.7	3821.6	3840.6	3847.4	3835.4	3833.7	3833.7	3816.4	3811.3
5°	3840.6	3819.9	3842.3	3852.6	3880.2	3897.4	3900.8	3914.6	3923.2	3916.3	3914.6
7.5°	3904.3	3878.4	3902.6	3918.1	3954.2	3981.8	3993.8	4024.8	4047.2	4043.8	4042.1
10°	4016.2	3981.8	4009.3	4035.2	4074.8	4107.5	4109.2	4126.4	4148.8	4141.9	4138.5
12.5°	4145.4	4112.7	4143.7	4169.5	4216.0	4229.8	4207.4	4200.5	4203.9	4195.3	4188.4
15°	4303.8	4257.3	4284.9	4314.2	4340.0	4324.5	4276.3	4257.3	4255.6	4243.6	4236.7
17.5°	4462.3	4403.7	4424.4	4439.9	4427.8	4379.6	4319.3	4286.6	4271.1	4247.0	4240.1
20°	4619.0	4544.9	4541.5	4529.4	4474.3	4386.5	4305.6	4240.1	4200.5	4167.8	4155.7
22.5°	4798.1	4694.8	4643.1	4588.0	4467.4	4324.5	4202.2	4109.2	4045.5	4004.2	3990.4
25°	4991.0	4844.6	4737.8	4627.6	4398.6	4191.9	4021.4	3893.9	3818.2	3773.4	3757.9
27.5°	5182.2	4980.7	4820.5	4632.8	4260.8	4000.7	3771.7	3599.4	3523.7	3487.5	3475.4
30°	5440.5	5161.5	4918.7	4565.6	4079.9	3735.5	3449.6	3275.7	3225.7	3199.9	3189.6
32.5°	5738.4	5390.6	5049.6	4424.4	3849.2	3425.5	3124.1	3003.6	2969.1	2919.2	2917.4
35°	6131.1	5717.8	5173.6	4216.0	3558.1	3093.1	2874.4	2788.3	2726.3	2647.1	2640.2
37.5°	6589.2	6125.9	5240.7	3950.8	3218.8	2819.3	2688.4	2591.9	2492.1	2387.0	2373.2
40°	7062.8	6603.0	5245.9	3637.3	2886.4	2638.4	2528.2	2402.5	2278.5	2161.4	2145.9
42.5°	7560.5	7047.3	5154.6	3275.7	2614.3	2481.7	2369.8	2211.3	2071.8	1992.6	1984.0
45°	8004.9	7405.5	4947.9	2895.1	2412.8	2350.8	2207.9	2037.4	1963.3	1906.5	1894.4
47.5°	8354.5	7643.2	4668.9	2554.1	2249.2	2216.5	2030.5	1942.7	1885.8	1834.2	1822.1
50°	8526.7	7696.6	4305.6	2276.8	2097.7	2058.1	1930.6	1863.4	1825.6	1784.2	1773.9
52.5°	8740.3	7756.9	3992.1	2044.3	1949.6	1896.2	1847.9	1794.6	1767.0	1741.2	1732.6
55°	9231.1	7984.2	3826.8	1858.3	1808.3	1784.2	1777.3	1732.6	1723.9	1706.7	1691.2
57.5°	9430.9	7837.8	3435.8	1706.7	1696.4	1699.8	1717.1	1675.7	1667.1	1646.4	1636.1
60°	7584.7	5924.4	2326.7	1575.8	1603.4	1625.8	1643.0	1601.7	1589.6	1586.2	1572.4
62.5°	4860.1	3644.2	1624.1	1453.6	1494.9	1522.4	1532.8	1493.2	1484.6	1512.1	1513.8
65°	2529.9	1985.7	1317.5	1322.7	1357.1	1398.4	1419.1	1405.3	1401.9	1431.2	1432.9
67.5°	1291.7	1214.2	1148.7	1167.7	1195.2	1248.6	1296.8	1357.1	1377.8	1381.2	1382.9
70°	1100.5	1066.1	1033.3	1045.4	1074.7	1103.9	1150.4	1179.7	1145.3	1136.7	1133.2
72.5°	936.9	911.1	895.6	909.3	924.8	919.7	905.9	919.7	924.8	926.6	928.3
75°	728.5	709.6	697.5	699.2	699.2	680.3	654.4	638.9	621.7	607.9	607.9
77.5°	446.1	449.5	461.6	459.8	458.1	451.2	425.4	411.6	370.3	358.2	358.2
80°	254.9	260.1	272.1	275.6	275.6	266.9	241.1	225.6	206.7	198.1	196.3
82.5°	155.0	161.9	168.8	172.2	173.9	163.6	141.2	129.2	118.8	110.2	110.2
85°	80.9	84.4	91.3	93.0	87.8	77.5	65.4	60.3	49.9	48.2	48.2
87.5°	22.4	24.1	27.6	22.4	20.7	15.5	8.6	6.9	3.4	1.7	1.7
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)