

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: P639699

Luminaire Tested: GWS-SA5C-735-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639699  
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-SA5C-735-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

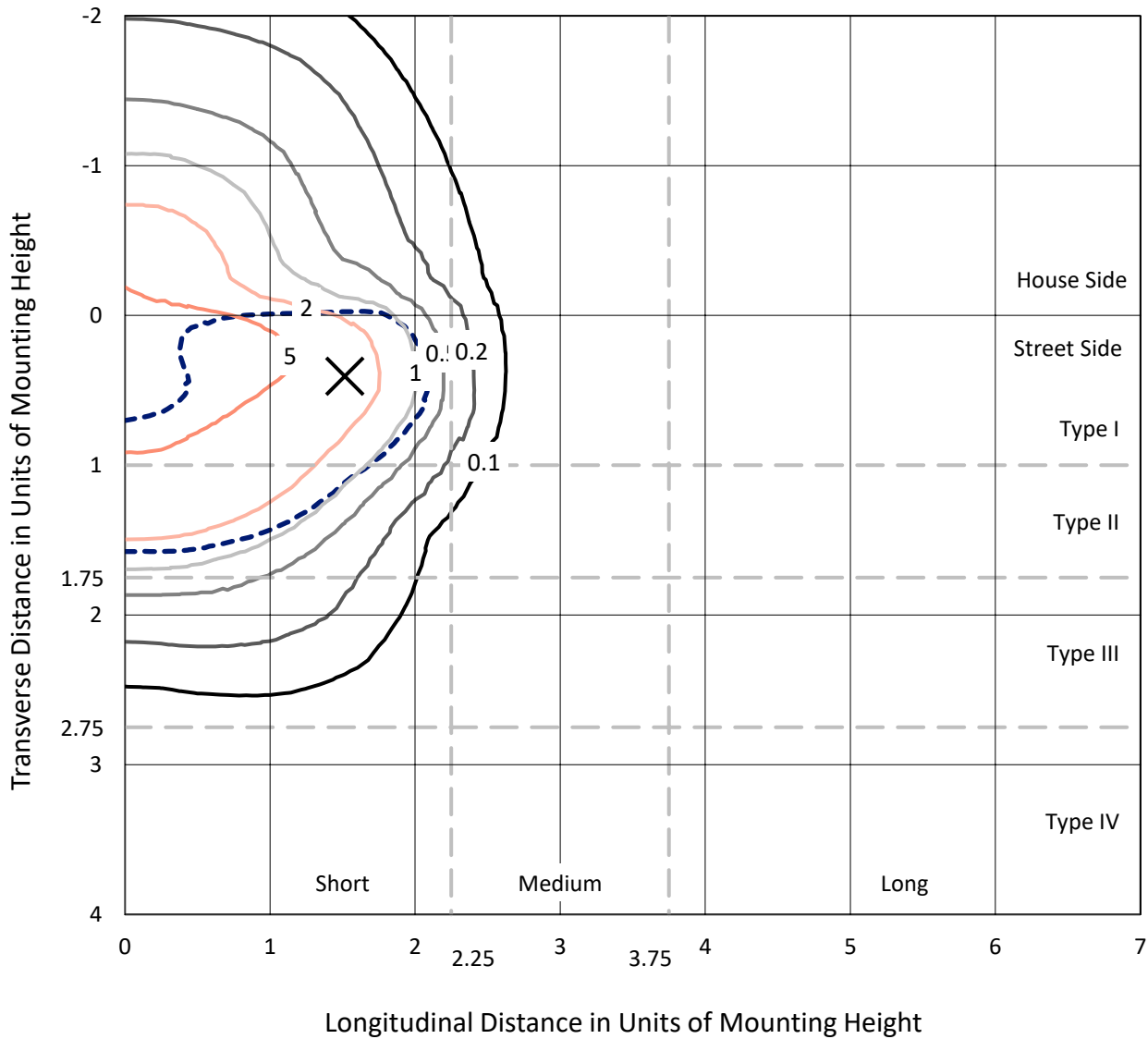
Lumens per Lamp: N/A  
Luminaire Lumens: 19580.9 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

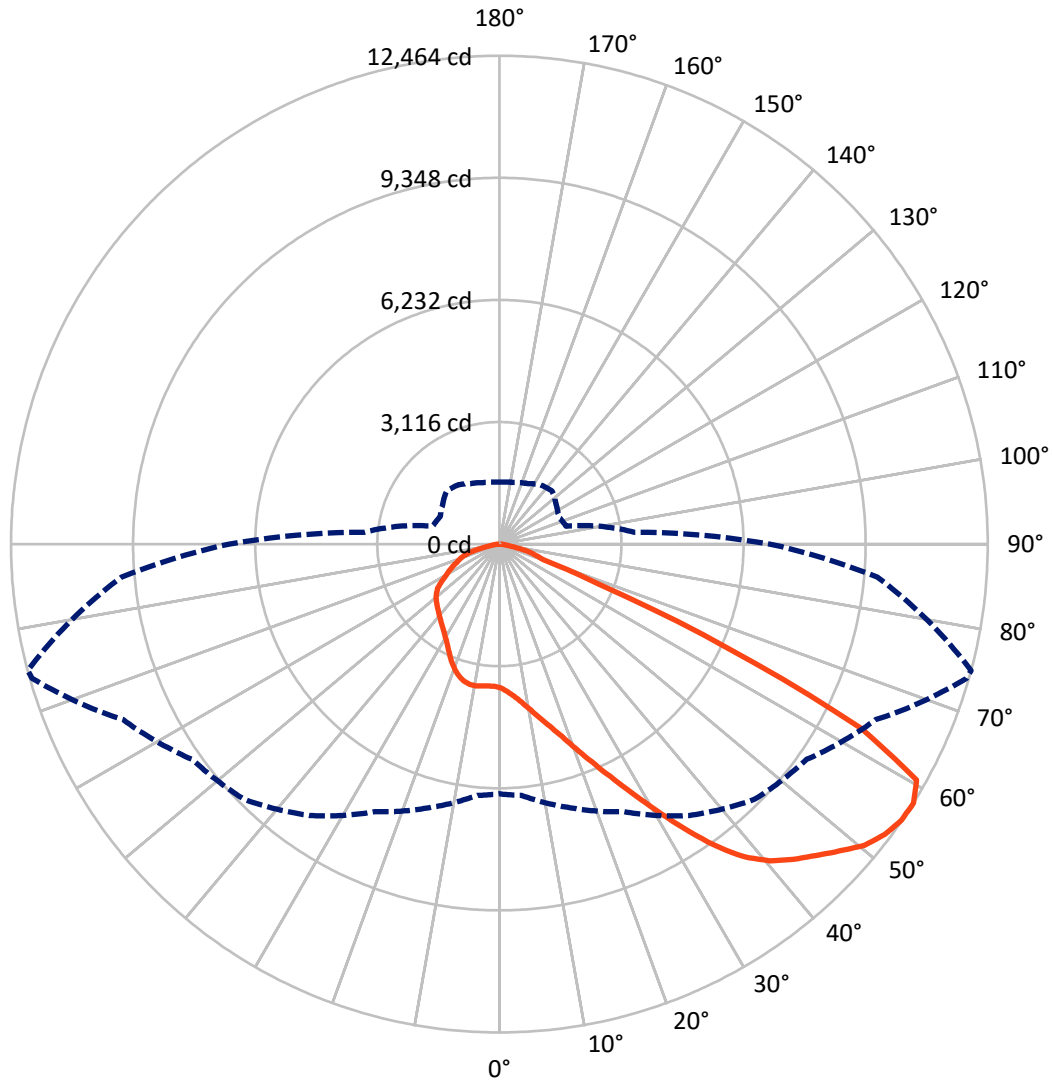
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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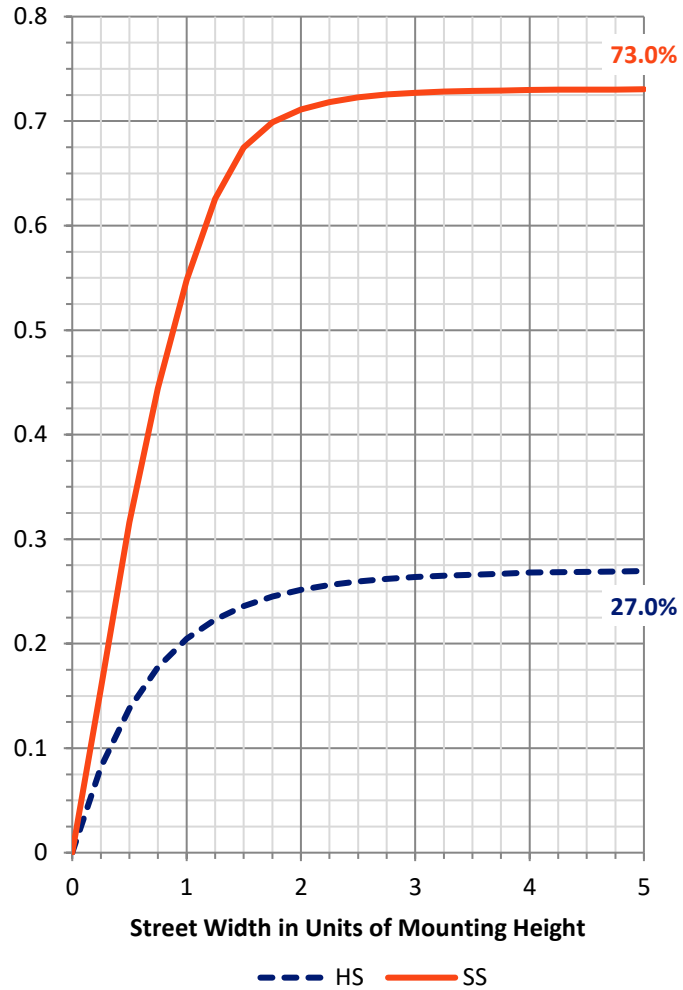
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5297.0	0.0	5297.0
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	14283.9	0.0	14283.9
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	19580.9	0.0	19580.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.0	1.9
10°-20°	1168.3	6.0
20°-30°	2072.0	10.6
30°-40°	3171.8	16.2
40°-50°	4416.5	22.6
50°-60°	5060.5	25.8
60°-70°	2600.2	13.3
70°-80°	654.6	3.3
80°-90°	70.0	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°	19580.9	100.0
0°-180°	19580.9	100.0

**Coefficient of Utilization**



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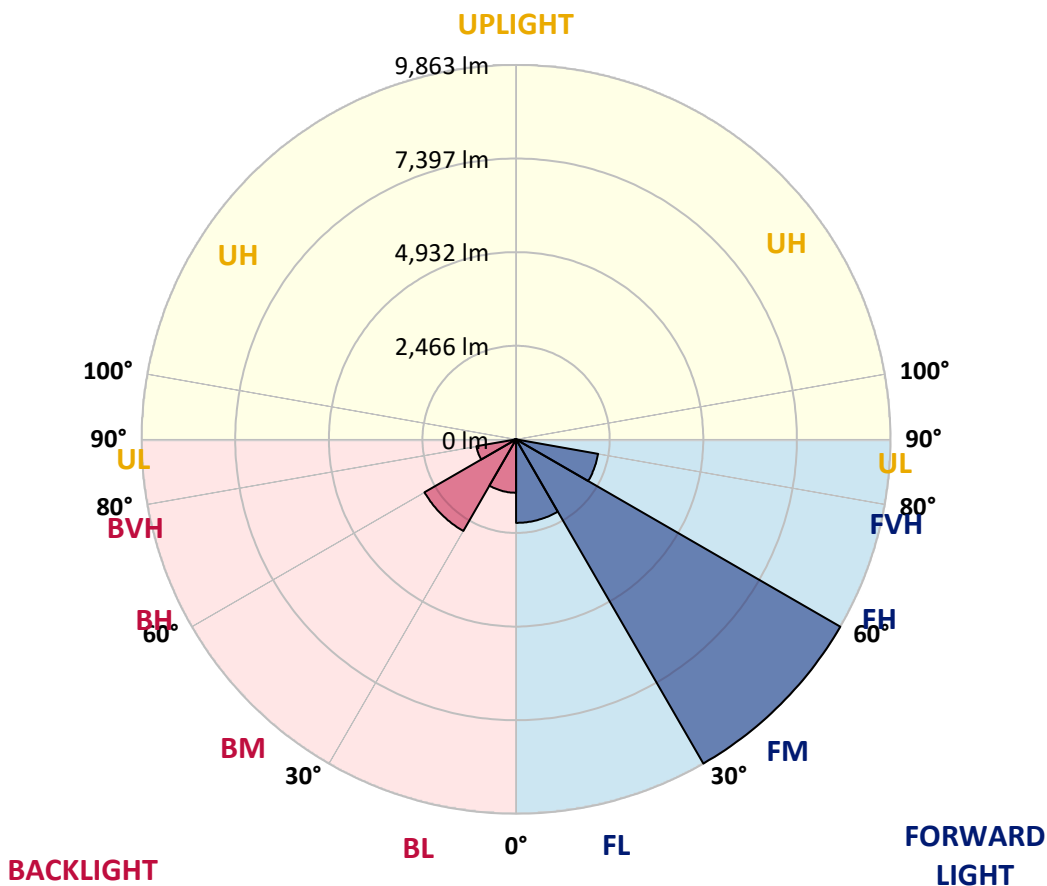
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2200.0	11.2			
FM (30°-60°)	9863.1	50.4			
FH (60°-80°)	2194.8	11.2			G2/5000
FVH (80°-90°)	25.9	0.1			G1/100
BL (0°-30°)	1407.2	7.2	B3/2500		
BM (30°-60°)	2785.8	14.2	B3/5000		
BH (60°-80°)	1060.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	44.1	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°	3667.0	3667.0	3667.0	3667.0	3667.0	3667.0	3667.0	3667.0	3667.0	3667.0	3667.0
2.5°	3939.8	3949.9	3939.8	3956.6	3923.0	3907.8	3870.8	3815.2	3771.4	3764.7	3715.9
5°	4246.2	4268.1	4254.6	4247.9	4202.4	4168.8	4113.2	4002.1	3911.2	3897.7	3801.7
7.5°	4443.2	4458.4	4458.4	4463.4	4446.6	4407.8	4348.9	4217.6	4089.6	4069.4	3924.6
10°	4508.9	4520.7	4542.5	4584.6	4618.3	4630.1	4591.4	4465.1	4308.5	4288.3	4086.3
12.5°	4524.0	4537.5	4571.2	4648.6	4741.2	4825.4	4832.1	4739.5	4564.4	4542.5	4273.2
15°	4552.6	4566.1	4611.6	4707.5	4843.9	5005.5	5104.9	5040.9	4847.3	4823.7	4485.3
17.5°	4549.3	4564.4	4631.8	4759.7	4943.3	5177.3	5369.2	5396.2	5195.8	5155.4	4726.1
20°	4540.9	4554.3	4626.7	4783.3	5010.6	5332.2	5679.0	5818.8	5603.3	5566.2	5007.2
22.5°	4608.2	4623.4	4678.9	4808.6	5046.0	5451.7	5965.2	6302.0	6086.5	6034.3	5330.5
25°	4759.7	4781.6	4815.3	4904.5	5109.9	5557.8	6258.2	6849.2	6628.6	6566.3	5682.4
27.5°	4993.8	5020.7	5067.8	5109.9	5253.0	5692.5	6549.5	7462.0	7241.5	7175.8	6054.5
30°	5280.0	5315.3	5376.0	5404.6	5502.2	5891.2	6866.0	8093.4	7965.4	7874.5	6473.7
32.5°	5675.7	5724.5	5781.7	5790.1	5849.1	6192.5	7179.2	8719.7	8718.0	8654.1	6950.2
35°	6190.9	6243.0	6254.8	6266.6	6295.2	6606.7	7558.0	9290.5	9511.0	9437.0	7468.8
37.5°	6753.2	6829.0	6847.5	6795.3	6835.7	7105.1	7984.0	9748.4	10201.4	10122.2	7970.5
40°	7354.3	7384.6	7435.1	7352.6	7403.1	7675.8	8401.5	10041.4	10716.6	10632.4	8366.2
42.5°	7785.3	7840.8	7916.6	7886.3	7914.9	8164.1	8694.5	10182.8	11083.6	10999.4	8650.7
45°	8253.3	8270.2	8319.0	8312.3	8329.1	8561.5	8904.9	10245.1	11411.9	11336.1	8893.1
47.5°	8660.8	8686.1	8718.0	8681.0	8644.0	8795.5	9076.7	10299.0	11790.7	11699.8	9147.4
50°	9053.1	9075.0	9113.7	9005.9	8867.9	8906.6	9160.8	10373.1	12146.0	12082.0	9347.7
52.5°	9125.5	9149.1	9330.9	9352.8	9176.0	9039.6	9309.0	10536.4	12354.8	12314.4	9420.1
55°	8214.6	8256.7	8618.7	9034.6	9470.6	9426.9	9546.4	10622.3	12437.3	12447.4	9549.8
57.5°	6376.1	6436.7	6965.3	7536.1	8453.7	9213.0	9576.7	10600.4	12408.6	12464.2	9682.8
60°	4182.2	4217.6	4843.9	5483.7	6435.0	7485.6	8571.6	10206.4	12154.4	12233.5	9649.1
62.5°	2525.5	2565.9	3069.3	3554.2	4114.9	4817.0	5813.7	8202.8	10187.9	10364.7	7728.0
65°	1762.8	1816.7	2257.8	2656.8	2850.5	2705.7	2944.7	4581.3	6347.4	6421.5	4722.7
67.5°	1277.9	1314.9	1676.9	2151.7	2365.6	1911.0	1456.4	2028.8	2764.6	2791.5	1948.0
70°	836.8	878.9	1207.2	1638.2	1931.2	1549.0	1089.3	1097.8	1163.4	1176.9	1131.4
72.5°	459.6	484.9	745.9	1087.7	1141.5	926.0	850.3	912.5	958.0	958.0	969.8
75°	237.4	259.3	304.7	358.6	432.7	506.8	612.9	705.5	754.3	757.7	752.6
77.5°	121.2	129.6	163.3	176.8	193.6	225.6	293.0	375.5	419.2	436.1	432.7
80°	57.2	60.6	69.0	80.8	99.3	126.3	158.3	188.6	215.5	218.9	237.4
82.5°	30.3	33.7	37.0	43.8	53.9	67.3	92.6	111.1	128.0	131.3	146.5
85°	11.8	13.5	15.2	16.8	23.6	28.6	38.7	52.2	64.0	64.0	75.8
87.5°	0.0	0.0	0.0	0.0	1.7	3.4	6.7	8.4	11.8	11.8	20.2
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°	3667.0	3667.0	3667.0	3667.0	3667.0	3667.0	3667.0	3667.0	3667.0	3667.0	3667.0
2.5°	3704.1	3655.2	3633.4	3598.0	3569.4	3537.4	3512.1	3493.6	3481.8	3475.1	3468.4
5°	3764.7	3690.6	3631.7	3561.0	3512.1	3465.0	3426.3	3399.3	3385.9	3375.8	3369.0
7.5°	3859.0	3759.6	3648.5	3539.1	3453.2	3377.4	3328.6	3300.0	3281.5	3274.7	3269.7
10°	3988.6	3850.6	3667.0	3493.6	3365.7	3283.2	3249.5	3236.0	3237.7	3234.3	3232.6
12.5°	4135.1	3946.5	3662.0	3412.8	3271.4	3222.5	3224.2	3246.1	3271.4	3278.1	3279.8
15°	4293.4	4040.8	3613.2	3308.4	3197.3	3202.3	3246.1	3298.3	3345.5	3364.0	3367.3
17.5°	4465.1	4119.9	3523.9	3193.9	3136.7	3190.6	3271.4	3357.2	3426.3	3456.6	3465.0
20°	4657.0	4187.3	3397.6	3081.1	3079.4	3168.7	3286.5	3399.3	3486.9	3527.3	3534.0
22.5°	4860.8	4229.4	3242.7	2976.7	3020.5	3140.0	3274.7	3392.6	3485.2	3525.6	3534.0
25°	5066.2	4242.8	3072.7	2880.8	2959.9	3094.6	3217.5	3311.8	3399.3	3434.7	3441.4
27.5°	5258.1	4204.1	2911.1	2798.3	2904.3	3027.2	3109.7	3160.2	3220.9	3247.8	3252.8
30°	5453.4	4126.7	2774.7	2732.6	2842.0	2934.6	2971.7	2975.0	2998.6	2998.6	3002.0
32.5°	5650.4	4012.2	2655.1	2668.6	2764.6	2825.2	2830.2	2791.5	2762.9	2715.8	2714.1
35°	5877.7	3896.0	2557.5	2596.2	2673.7	2710.7	2695.6	2621.5	2552.4	2475.0	2471.6
37.5°	6088.1	3776.5	2475.0	2522.1	2571.0	2597.9	2562.5	2473.3	2416.1	2336.9	2325.1
40°	6261.6	3668.7	2395.9	2444.7	2468.3	2491.8	2434.6	2362.2	2370.6	2326.8	2325.1
42.5°	6362.6	3564.3	2321.8	2358.8	2374.0	2390.8	2340.3	2286.4	2331.9	2298.2	2299.9
45°	6436.7	3473.4	2254.4	2267.9	2304.9	2330.2	2283.1	2222.4	2232.5	2102.9	2072.6
47.5°	6520.9	3422.9	2190.5	2177.0	2242.6	2286.4	2214.0	2126.5	2065.9	1937.9	1926.1
50°	6610.1	3404.4	2123.1	2086.1	2165.2	2207.3	2123.1	2013.7	1934.5	1865.5	1858.8
52.5°	6640.4	3402.7	2038.9	1976.6	2055.8	2114.7	2044.0	1932.9	1838.6	1771.2	1767.9
55°	6759.9	3451.5	1931.2	1826.8	1900.9	2022.1	1969.9	1809.9	1734.2	1703.9	1700.5
57.5°	6899.7	3459.9	1761.1	1663.5	1766.2	1909.3	1843.6	1705.6	1623.1	1586.0	1582.6
60°	6842.4	3252.8	1579.3	1538.9	1651.7	1803.2	1742.6	1623.1	1527.1	1491.7	1488.4
62.5°	5214.3	2296.5	1446.3	1431.1	1528.8	1650.0	1638.2	1513.6	1422.7	1397.4	1394.1
65°	3136.7	1613.0	1318.3	1316.6	1385.7	1501.8	1517.0	1416.0	1320.0	1284.6	1284.6
67.5°	1550.7	1234.1	1173.5	1165.1	1208.9	1291.4	1355.4	1272.9	1192.0	1158.4	1153.3
70°	1096.1	1087.7	1067.4	1043.9	1052.3	1086.0	1112.9	1043.9	958.0	924.3	917.6
72.5°	947.9	949.6	936.1	917.6	910.9	887.3	863.7	813.2	761.0	725.7	729.0
75°	735.8	739.1	747.5	740.8	722.3	697.0	671.8	607.8	565.7	532.0	525.3
77.5°	429.3	446.2	473.1	466.4	469.7	434.4	424.3	362.0	323.3	299.7	294.6
80°	242.4	252.6	264.3	272.8	262.7	247.5	225.6	191.9	180.2	163.3	159.9
82.5°	146.5	156.6	161.6	168.4	165.0	144.8	128.0	106.1	96.0	87.6	85.9
85°	74.1	80.8	85.9	89.2	79.1	65.7	58.9	47.1	40.4	35.4	35.4
87.5°	18.5	20.2	23.6	20.2	18.5	8.4	6.7	1.7	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)