

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: P639974

Luminaire Tested: GWS-SA5C-830-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639974  
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-830-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) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

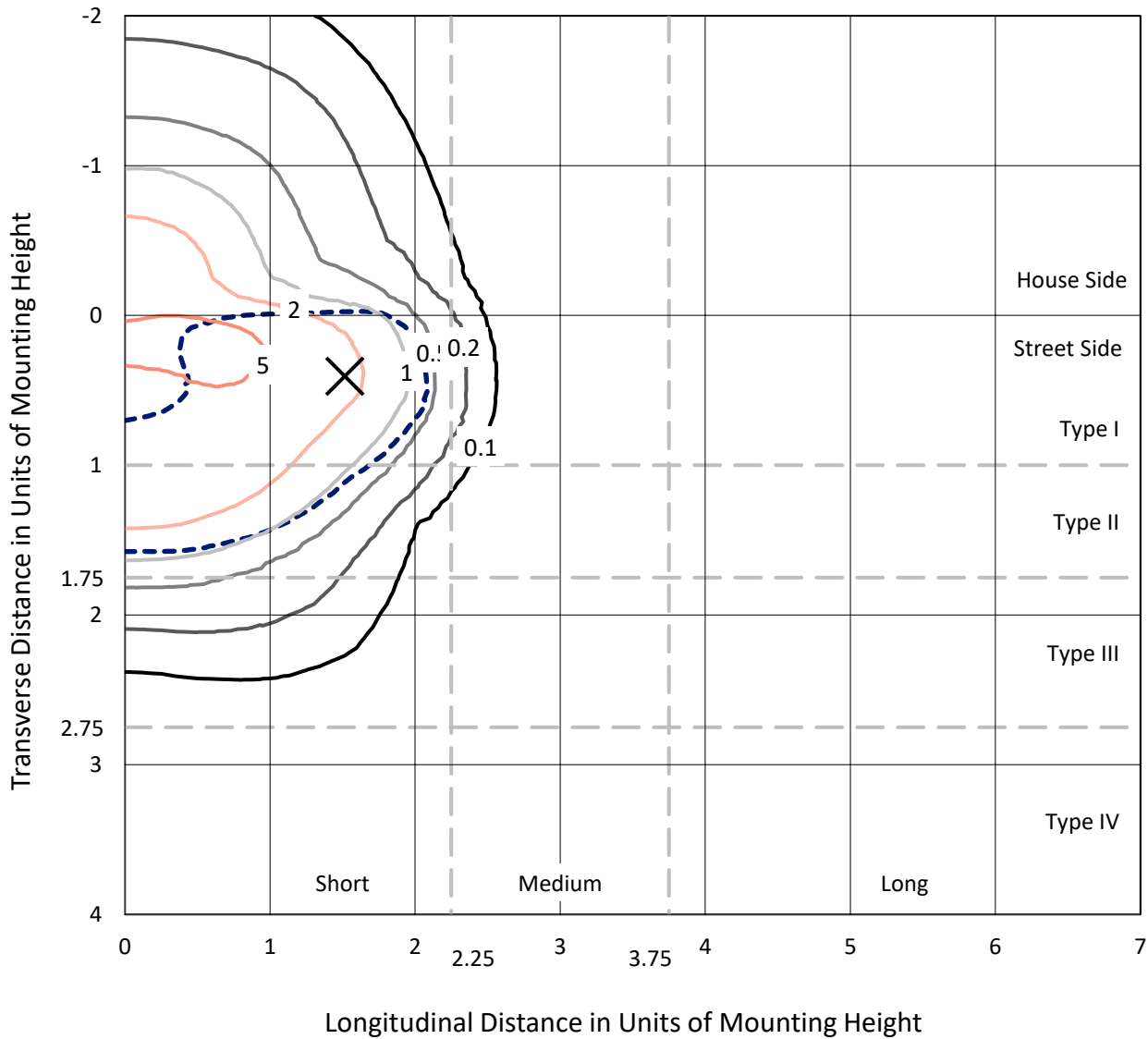
Lumens per Lamp: N/A  
Luminaire Lumens: 15771 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

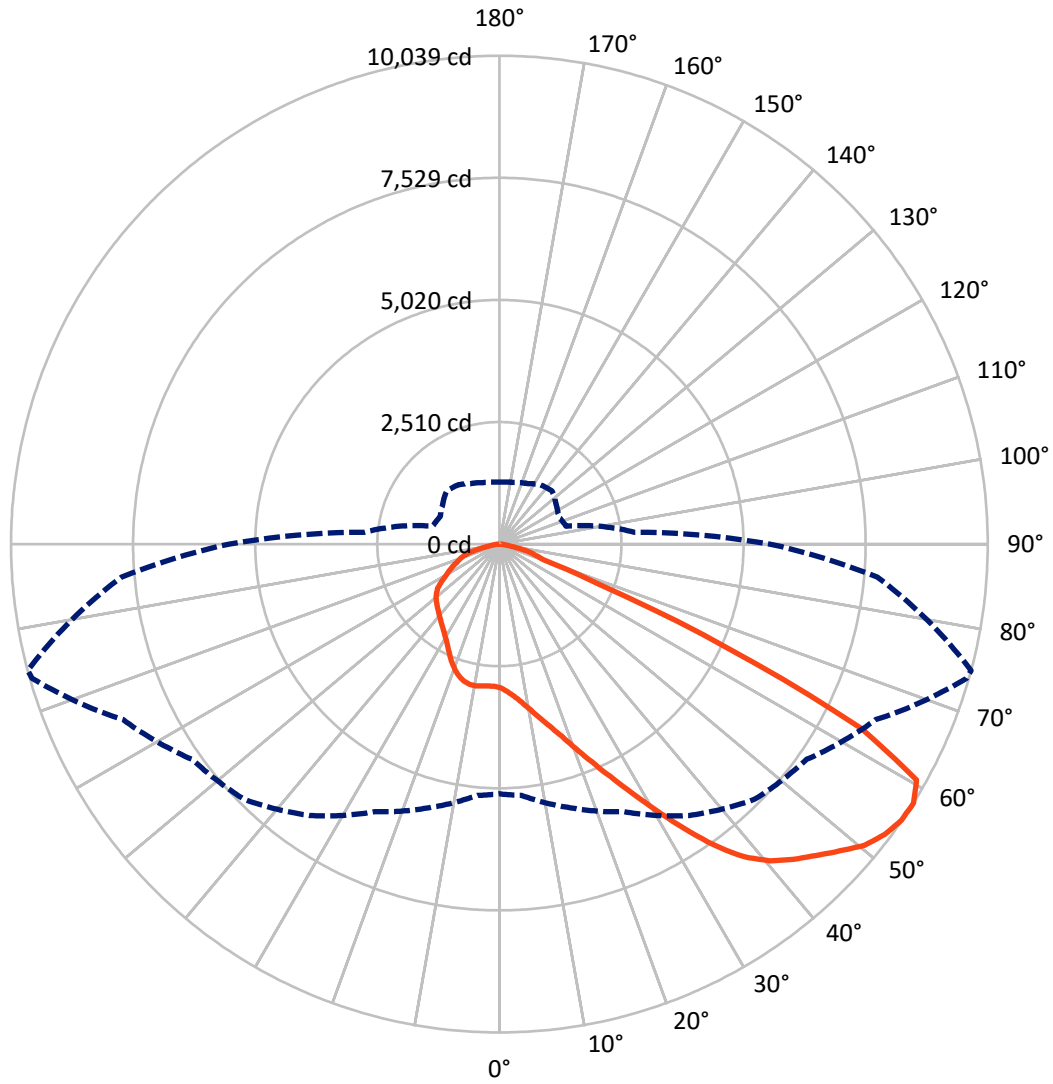
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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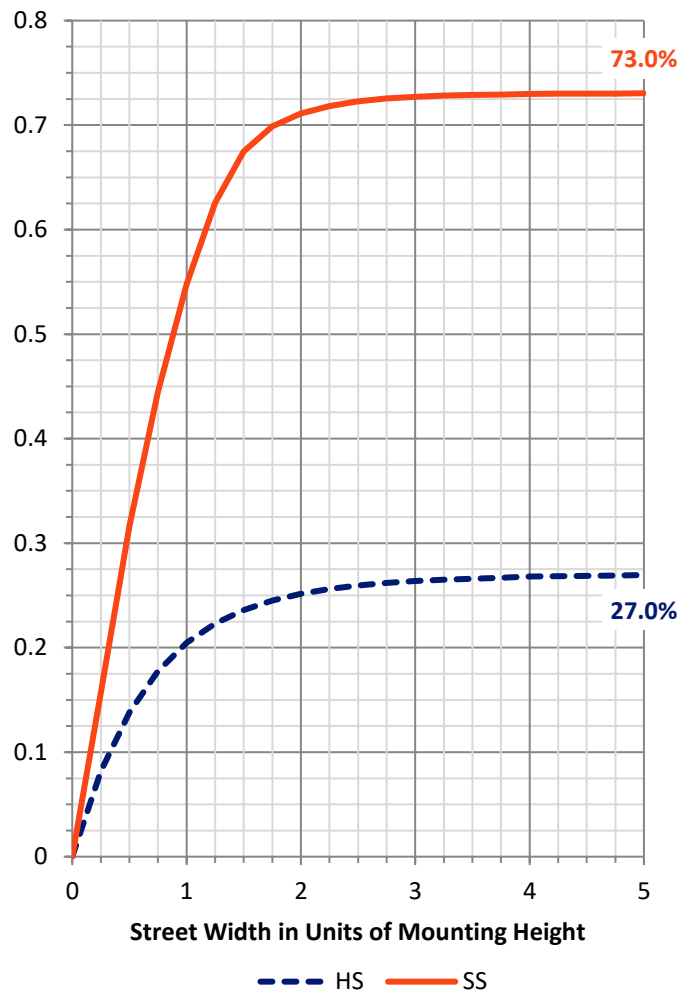
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4266.4	0.0	4266.4
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	11504.6	0.0	11504.6
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	15771.0	0.0	15771.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.6	1.9
10°-20°	941.0	6.0
20°-30°	1668.8	10.6
30°-40°	2554.7	16.2
40°-50°	3557.2	22.6
50°-60°	4075.9	25.8
60°-70°	2094.3	13.3
70°-80°	527.2	3.3
80°-90°	56.4	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°	15771.0	100.0
0°-180°	15771.0	100.0

**Coefficient of Utilization**



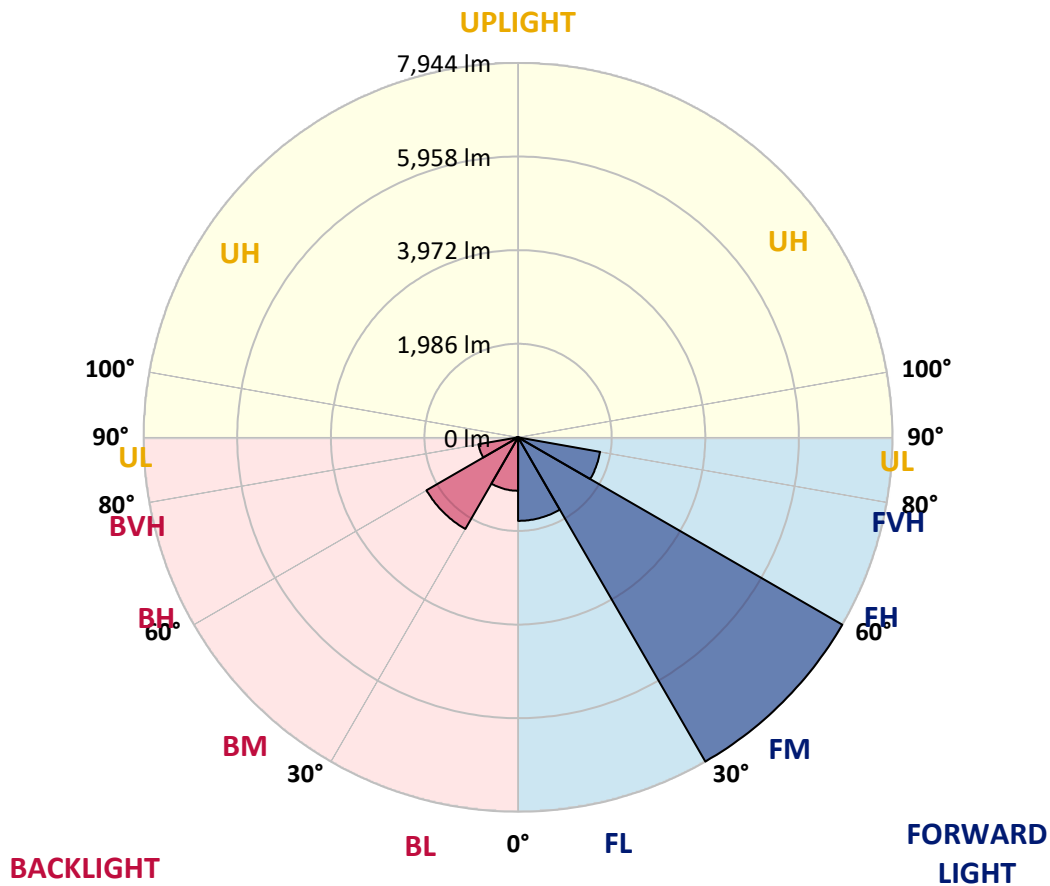
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1772.0	11.2			
FM (30°-60°)	7944.0	50.4			
FH (60°-80°)	1767.8	11.2			G1/1800
FVH (80°-90°)	20.9	0.1			G1/100
BL (0°-30°)	1133.4	7.2	B3/2500		
BM (30°-60°)	2243.7	14.2	B2/2500		
BH (60°-80°)	853.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	35.5	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5
2.5°	3173.2	3181.4	3173.2	3186.8	3159.7	3147.4	3117.6	3072.9	3037.6	3032.2	2992.9
5°	3420.0	3437.6	3426.8	3421.4	3384.8	3357.6	3312.9	3223.4	3150.2	3139.3	3062.0
7.5°	3578.7	3590.9	3590.9	3595.0	3581.4	3550.2	3502.7	3397.0	3293.9	3277.6	3161.0
10°	3631.6	3641.1	3658.7	3692.6	3719.7	3729.2	3698.0	3596.3	3470.2	3453.9	3291.2
12.5°	3643.8	3654.6	3681.7	3744.1	3818.7	3886.5	3891.9	3817.3	3676.3	3658.7	3441.7
15°	3666.8	3677.7	3714.3	3791.6	3901.4	4031.6	4111.6	4060.1	3904.1	3885.2	3612.6
17.5°	3664.1	3676.3	3730.6	3833.6	3981.4	4169.9	4324.5	4346.2	4184.8	4152.3	3806.5
20°	3657.3	3668.2	3726.5	3852.6	4035.7	4294.7	4574.0	4686.6	4513.0	4483.2	4033.0
22.5°	3711.6	3723.8	3768.5	3872.9	4064.2	4391.0	4804.6	5075.8	4902.2	4860.2	4293.3
25°	3833.6	3851.3	3878.4	3950.2	4115.7	4476.4	5040.5	5516.5	5338.9	5288.7	4576.8
27.5°	4022.1	4043.8	4081.8	4115.7	4231.0	4584.9	5275.1	6010.1	5832.5	5779.6	4876.4
30°	4252.6	4281.1	4329.9	4353.0	4431.7	4744.9	5530.1	6518.6	6415.6	6342.4	5214.1
32.5°	4571.3	4610.7	4656.8	4663.5	4711.0	4987.6	5782.3	7023.1	7021.8	6970.2	5597.9
35°	4986.3	5028.3	5037.8	5047.3	5070.4	5321.2	6087.4	7482.8	7660.5	7600.8	6015.5
37.5°	5439.2	5500.2	5515.2	5473.1	5505.7	5722.6	6430.5	7851.7	8216.5	8152.7	6419.7
40°	5923.3	5947.7	5988.4	5922.0	5962.7	6182.3	6766.8	8087.6	8631.4	8563.6	6738.3
42.5°	6270.5	6315.2	6376.3	6351.9	6374.9	6575.6	7002.8	8201.5	8927.0	8859.2	6967.5
45°	6647.5	6661.0	6700.4	6694.9	6708.5	6895.6	7172.3	8251.7	9191.5	9130.4	7162.8
47.5°	6975.6	6996.0	7021.8	6991.9	6962.1	7084.1	7310.6	8295.1	9496.6	9423.4	7367.6
50°	7291.6	7309.2	7340.4	7253.6	7142.4	7173.6	7378.4	8354.8	9782.7	9731.2	7528.9
52.5°	7349.9	7368.9	7515.4	7533.0	7390.6	7280.8	7497.7	8486.3	9950.9	9918.3	7587.2
55°	6616.3	6650.2	6941.7	7276.7	7627.9	7592.7	7688.9	8555.5	10017.3	10025.5	7691.7
57.5°	5135.5	5184.3	5610.1	6069.8	6808.8	7420.4	7713.4	8537.8	9994.3	10039.0	7798.8
60°	3368.5	3397.0	3901.4	4416.7	5182.9	6029.1	6903.8	8220.5	9789.5	9853.2	7771.7
62.5°	2034.1	2066.7	2472.1	2862.7	3314.2	3879.7	4682.5	6606.8	8205.6	8348.0	6224.4
65°	1419.8	1463.2	1818.5	2139.9	2295.8	2179.2	2371.8	3689.9	5112.4	5172.1	3803.8
67.5°	1029.3	1059.1	1350.6	1733.1	1905.3	1539.1	1173.0	1634.1	2226.7	2248.4	1569.0
70°	674.0	707.9	972.3	1319.5	1555.4	1247.6	877.4	884.2	937.0	947.9	911.3
72.5°	370.2	390.5	600.7	876.0	919.4	745.8	684.8	735.0	771.6	771.6	781.1
75°	191.2	208.8	245.4	288.8	348.5	408.2	493.6	568.2	607.5	610.2	606.2
77.5°	97.6	104.4	131.5	142.4	155.9	181.7	236.0	302.4	337.7	351.2	348.5
80°	46.1	48.8	55.6	65.1	80.0	101.7	127.5	151.9	173.6	176.3	191.2
82.5°	24.4	27.1	29.8	35.3	43.4	54.2	74.6	89.5	103.1	105.8	118.0
85°	9.5	10.8	12.2	13.6	19.0	23.1	31.2	42.0	51.5	51.5	61.0
87.5°	0.0	0.0	0.0	0.0	1.4	2.7	5.4	6.8	9.5	9.5	16.3
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°	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5
2.5°	2983.4	2944.0	2926.4	2897.9	2874.9	2849.1	2828.8	2813.9	2804.4	2798.9	2793.5
5°	3032.2	2972.5	2925.1	2868.1	2828.8	2790.8	2759.6	2737.9	2727.1	2718.9	2713.5
7.5°	3108.1	3028.1	2938.6	2850.5	2781.3	2720.3	2681.0	2657.9	2643.0	2637.6	2633.5
10°	3212.5	3101.3	2953.5	2813.9	2710.8	2644.3	2617.2	2606.4	2607.7	2605.0	2603.7
12.5°	3330.5	3178.6	2949.5	2748.8	2634.9	2595.5	2596.9	2614.5	2634.9	2640.3	2641.6
15°	3458.0	3254.6	2910.1	2664.7	2575.2	2579.3	2614.5	2656.5	2694.5	2709.4	2712.1
17.5°	3596.3	3318.3	2838.3	2572.5	2526.4	2569.8	2634.9	2704.0	2759.6	2784.0	2790.8
20°	3750.9	3372.6	2736.6	2481.6	2480.3	2552.1	2647.1	2737.9	2808.4	2841.0	2846.4
22.5°	3915.0	3406.5	2611.8	2397.5	2432.8	2529.1	2637.6	2732.5	2807.1	2839.6	2846.4
25°	4080.4	3417.3	2474.8	2320.2	2384.0	2492.5	2591.5	2667.4	2737.9	2766.4	2771.8
27.5°	4235.0	3386.1	2344.7	2253.8	2339.2	2438.2	2504.7	2545.4	2594.2	2615.9	2619.9
30°	4392.3	3323.7	2234.8	2200.9	2289.1	2363.6	2393.5	2396.2	2415.2	2415.2	2417.9
32.5°	4551.0	3231.5	2138.5	2149.4	2226.7	2275.5	2279.6	2248.4	2225.3	2187.3	2186.0
35°	4734.1	3138.0	2059.9	2091.1	2153.4	2183.3	2171.1	2111.4	2055.8	1993.4	1990.7
37.5°	4903.6	3041.7	1993.4	2031.4	2070.7	2092.4	2063.9	1992.1	1946.0	1882.2	1872.7
40°	5043.2	2954.9	1929.7	1969.0	1988.0	2007.0	1960.9	1902.6	1909.4	1874.1	1872.7
42.5°	5124.6	2870.8	1870.0	1899.9	1912.1	1925.6	1884.9	1841.5	1878.2	1851.0	1852.4
45°	5184.3	2797.6	1815.8	1826.6	1856.5	1876.8	1838.8	1790.0	1798.2	1693.7	1669.3
47.5°	5252.1	2756.9	1764.3	1753.4	1806.3	1841.5	1783.2	1712.7	1663.9	1560.8	1551.3
50°	5323.9	2742.0	1710.0	1680.2	1743.9	1777.8	1710.0	1621.9	1558.1	1502.5	1497.1
52.5°	5348.4	2740.6	1642.2	1592.0	1655.8	1703.2	1646.3	1556.8	1480.8	1426.6	1423.9
55°	5444.6	2780.0	1555.4	1471.3	1531.0	1628.6	1586.6	1457.8	1396.8	1372.3	1369.6
57.5°	5557.2	2786.7	1418.5	1339.8	1422.5	1537.8	1484.9	1373.7	1307.3	1277.4	1274.7
60°	5511.1	2619.9	1272.0	1239.5	1330.3	1452.4	1403.5	1307.3	1230.0	1201.5	1198.8
62.5°	4199.8	1849.7	1164.9	1152.7	1231.3	1329.0	1319.5	1219.1	1145.9	1125.5	1122.8
65°	2526.4	1299.1	1061.8	1060.5	1116.0	1209.6	1221.8	1140.5	1063.2	1034.7	1034.7
67.5°	1248.9	994.0	945.2	938.4	973.7	1040.1	1091.6	1025.2	960.1	933.0	928.9
70°	882.8	876.0	859.8	840.8	847.5	874.7	896.4	840.8	771.6	744.5	739.1
72.5°	763.5	764.8	754.0	739.1	733.6	714.7	695.7	655.0	612.9	584.5	587.2
75°	592.6	595.3	602.1	596.7	581.8	561.4	541.1	489.5	455.6	428.5	423.1
77.5°	345.8	359.4	381.1	375.6	378.3	349.9	341.7	291.6	260.4	241.4	237.3
80°	195.3	203.4	212.9	219.7	211.5	199.3	181.7	154.6	145.1	131.5	128.8
82.5°	118.0	126.1	130.2	135.6	132.9	116.6	103.1	85.4	77.3	70.5	69.2
85°	59.7	65.1	69.2	71.9	63.7	52.9	47.5	38.0	32.5	28.5	28.5
87.5°	14.9	16.3	19.0	16.3	14.9	6.8	5.4	1.4	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)