

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: P638965

Luminaire Tested: GWS-SA4F-830-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638965  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-830-U-SL2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

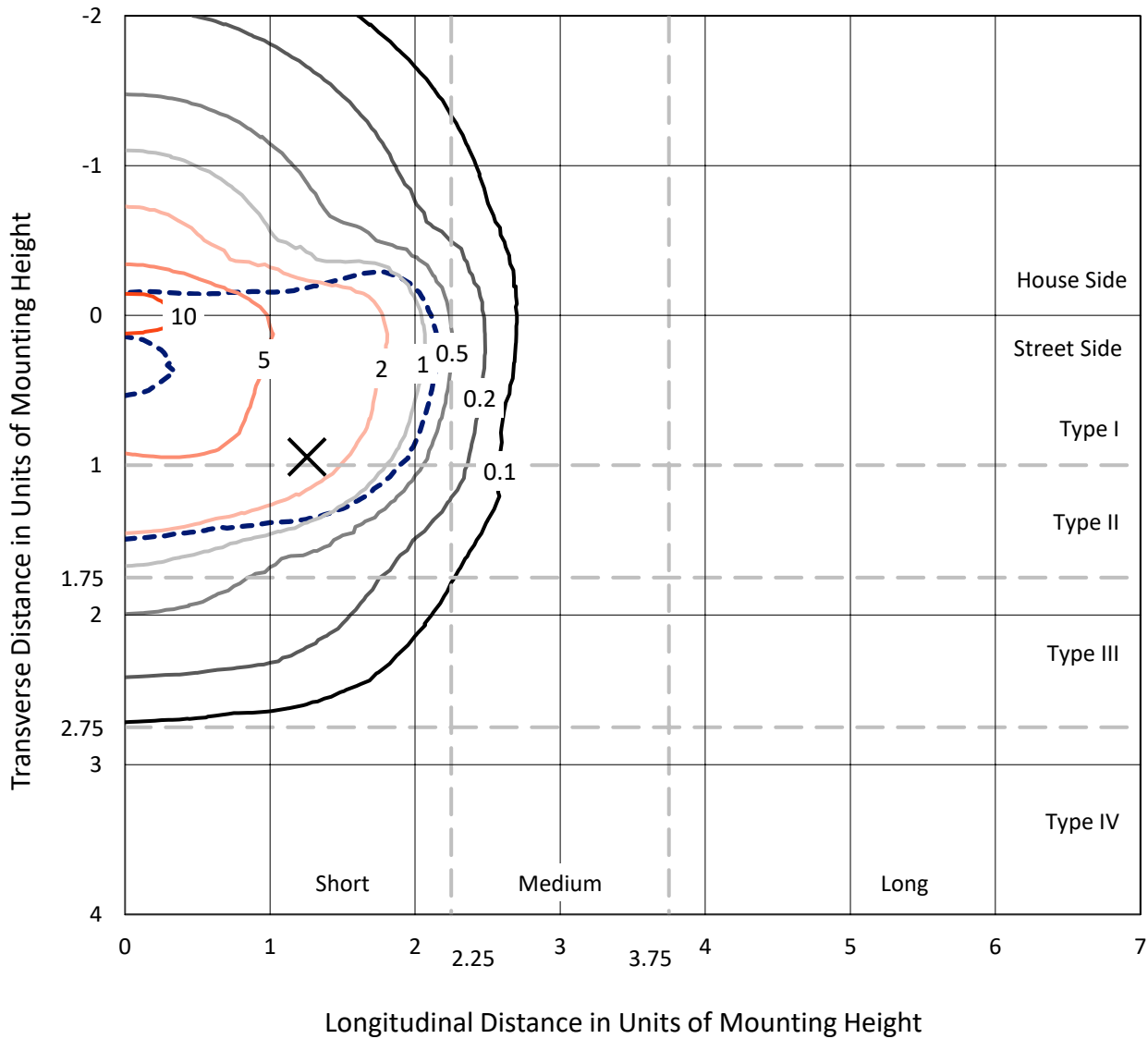
Lumens per Lamp: N/A  
Luminaire Lumens: 23020.8 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

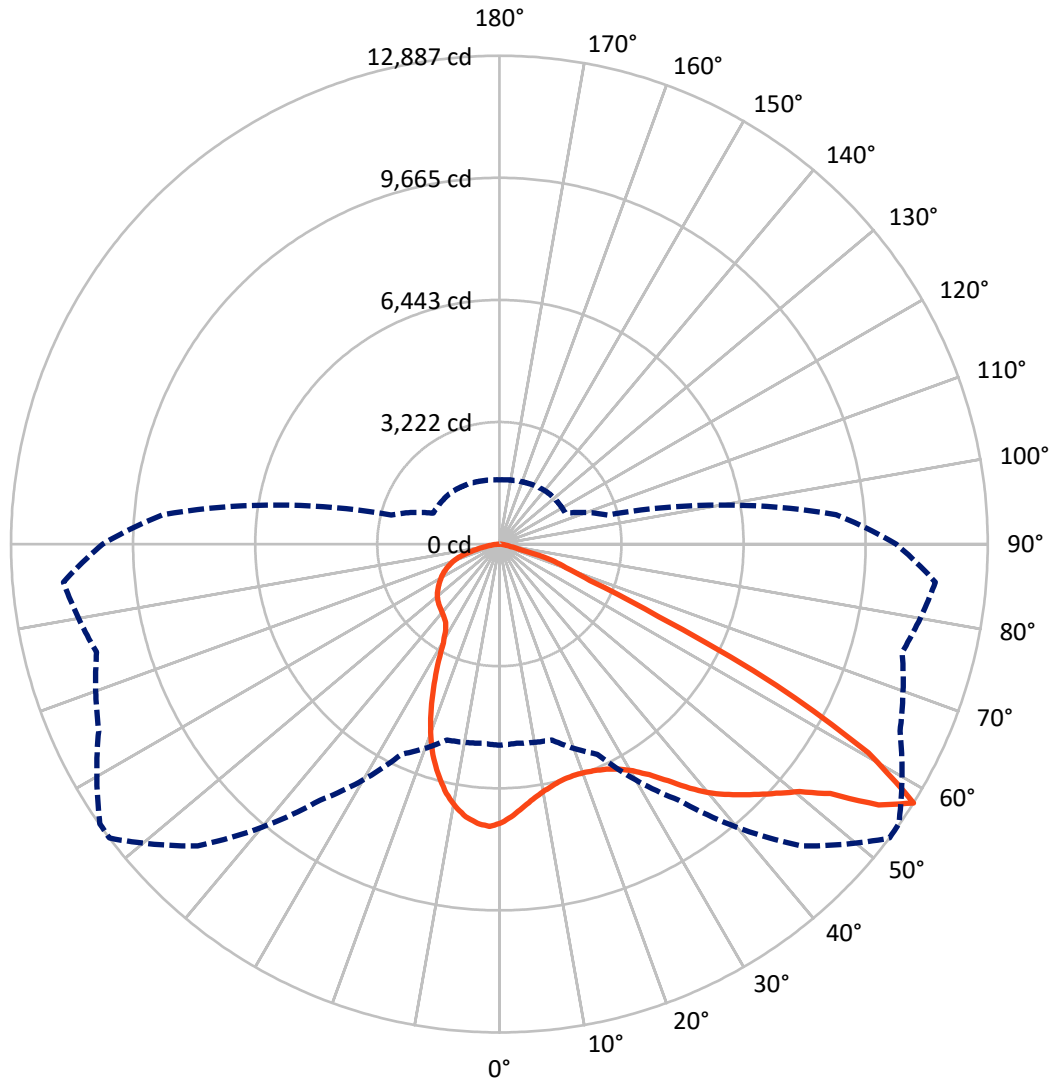
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7197.8	0.0	7197.8
	% Fixture	31.3	0.0	31.3
<b>Street Side</b>	Lumens	15823.0	0.0	15823.0
	% Fixture	68.7	0.0	68.7
<b>Total</b>	Lumens	23020.8	0.0	23020.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	664.8	2.9
10°-20°	1744.0	7.6
20°-30°	2569.6	11.2
30°-40°	3596.7	15.6
40°-50°	4728.2	20.5
50°-60°	5543.8	24.1
60°-70°	3265.9	14.2
70°-80°	812.4	3.5
80°-90°	95.3	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°	23020.8	100.0
0°-180°	23020.8	100.0

**Coefficient of Utilization**



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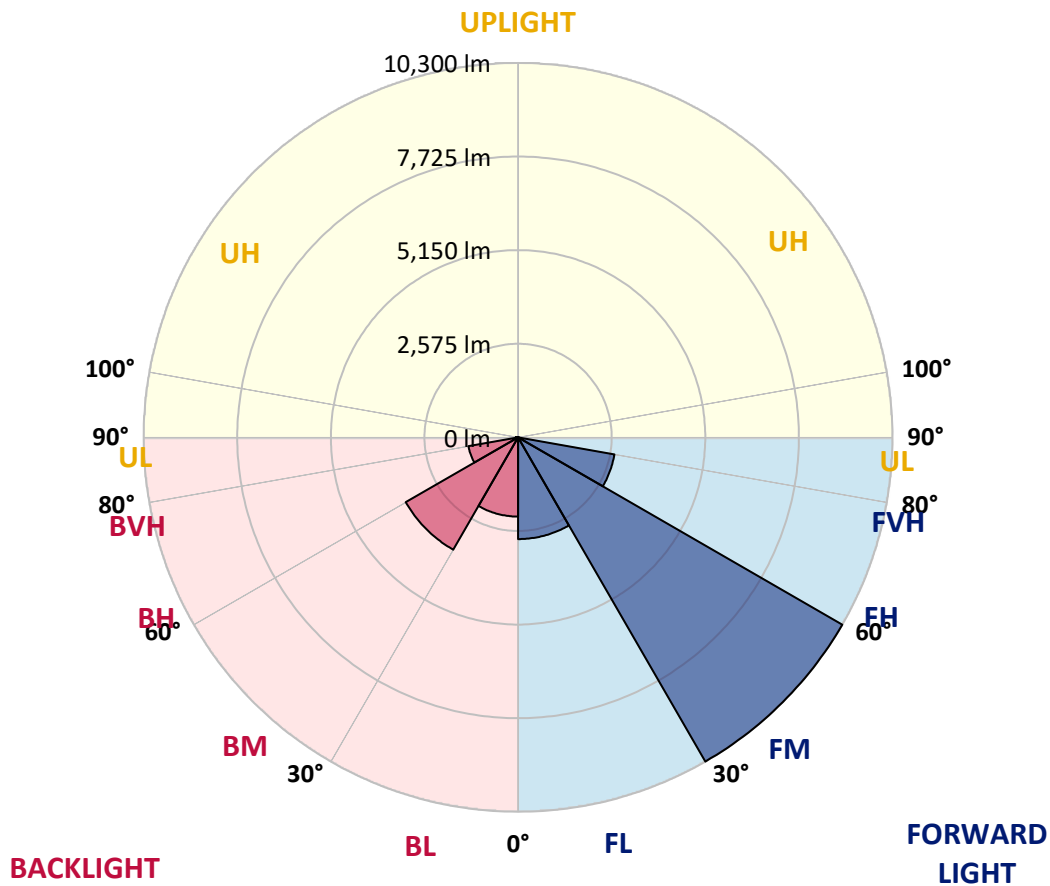
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2798.9	12.2			
FM (30°-60°)	10299.7	44.7			
FH (60°-80°)	2692.6	11.7			G2/5000
FVH (80°-90°)	31.9	0.1			G1/100
BL (0°-30°)	2179.5	9.5	B3/2500		
BM (30°-60°)	3569.0	15.5	B3/5000		
BH (60°-80°)	1385.8	6.0	B3/2500		G3/2500
BVH (80°-90°)	63.4	0.3			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°	53°	55°	65°	75°	85°
0°	7351.2	7351.2	7351.2	7351.2	7351.2	7351.2	7351.2	7351.2	7351.2	7351.2	7351.2
2.5°	6928.8	6948.1	6952.0	7012.1	7016.0	7103.2	7161.3	7149.7	7209.7	7283.3	7341.5
5°	6597.4	6599.4	6618.8	6690.4	6729.2	6843.5	6940.4	6940.4	7056.7	7207.8	7337.6
7.5°	6324.2	6322.3	6339.7	6419.2	6483.1	6620.7	6752.5	6768.0	6930.7	7151.6	7362.8
10°	6070.4	6084.0	6103.4	6200.2	6281.6	6452.1	6609.1	6634.3	6839.6	7112.8	7397.7
12.5°	5907.7	5909.6	5938.7	6047.2	6151.8	6333.9	6498.6	6529.6	6766.0	7076.0	7422.9
15°	5803.0	5805.0	5836.0	5956.1	6078.2	6262.2	6430.8	6465.7	6723.4	7070.2	7471.3
17.5°	5756.5	5754.6	5783.7	5903.8	6037.5	6229.3	6409.5	6452.1	6742.8	7114.8	7556.5
20°	5756.5	5758.5	5774.0	5882.5	6018.1	6221.6	6430.8	6483.1	6818.3	7215.5	7688.3
22.5°	5837.9	5845.7	5853.4	5927.0	6033.6	6233.2	6487.0	6556.8	6981.1	7384.1	7860.7
25°	5996.8	5998.7	6006.5	6066.6	6115.0	6266.1	6580.0	6684.6	7234.9	7630.2	8077.8
27.5°	6209.9	6237.1	6244.8	6283.6	6283.6	6347.5	6725.3	6876.5	7577.9	7984.8	8354.8
30°	6508.3	6518.0	6531.6	6574.2	6527.7	6500.6	6938.5	7132.2	7975.1	8413.0	8688.1
32.5°	6769.9	6791.2	6864.8	6934.6	6851.3	6766.0	7252.3	7481.0	8356.8	8858.6	9042.7
35°	6992.7	7045.0	7186.5	7341.5	7283.3	7198.1	7668.9	7907.2	8670.7	9178.3	9356.6
37.5°	7262.0	7302.7	7496.5	7748.4	7800.7	7760.0	8176.6	8347.1	8879.9	9259.7	9527.1
40°	7535.2	7597.2	7847.2	8195.9	8395.5	8424.6	8645.5	8759.8	8951.6	9100.8	9494.1
42.5°	7814.2	7920.8	8263.8	8670.7	9025.2	9091.1	9040.7	9089.2	8928.4	8881.8	9341.1
45°	8155.3	8281.2	8668.7	9188.0	9654.9	9757.6	9428.2	9383.7	8924.5	8798.5	9246.1
47.5°	8558.3	8684.2	9054.3	9658.8	10255.6	10331.2	9825.4	9744.1	9060.1	8926.4	9374.0
50°	8914.8	9002.0	9333.3	10009.5	10815.5	10860.1	10263.3	10164.5	9397.2	9281.0	9773.1
52.5°	8552.5	8542.8	8891.5	9724.7	11106.2	11642.9	10937.6	10842.7	10048.3	9870.0	10391.2
55°	7256.2	7145.8	7457.7	8277.3	10294.3	12338.5	12146.7	11956.8	10916.3	10462.9	10970.6
57.5°	5305.1	5274.1	5349.6	6118.9	8246.3	11261.2	12886.8	12869.4	11666.1	11005.4	11548.0
60°	4148.4	4101.8	3900.3	3921.7	5620.9	8796.6	11183.7	11697.1	12131.2	11330.9	11951.0
62.5°	3683.3	3648.5	3543.8	3255.1	3348.1	5898.0	8197.9	8668.7	10600.5	10007.6	10265.3
65°	3049.7	3040.1	3127.2	3115.6	2805.6	3257.1	4626.9	5101.6	6665.3	6748.6	6665.3
67.5°	2216.6	2199.1	2420.0	2856.0	2701.0	2458.8	2578.9	2743.6	3417.9	3069.1	2763.0
70°	1441.6	1416.4	1544.2	2063.5	2418.1	2143.0	1858.1	1831.0	1879.4	1168.4	1263.3
72.5°	966.9	937.8	935.8	1135.4	1460.9	1443.5	1439.6	1426.1	1273.0	922.3	1023.0
75°	538.6	515.4	509.6	490.2	523.1	532.8	567.7	587.1	635.5	699.5	775.0
77.5°	91.1	89.1	112.4	143.4	197.6	253.8	313.9	331.3	408.8	484.4	532.8
80°	50.4	52.3	67.8	83.3	110.4	151.1	193.8	205.4	251.9	292.6	331.3
82.5°	27.1	27.1	34.9	44.6	60.1	79.4	104.6	114.3	145.3	170.5	197.6
85°	9.7	9.7	13.6	17.4	25.2	32.9	40.7	46.5	63.9	87.2	98.8
87.5°	0.0	0.0	0.0	0.0	1.9	3.9	7.8	7.8	9.7	17.4	25.2
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°	7351.2	7351.2	7351.2	7351.2	7351.2	7351.2	7351.2	7351.2	7351.2	7351.2	7351.2
2.5°	7389.9	7337.6	7409.3	7442.2	7453.9	7461.6	7411.2	7376.4	7364.7	7327.9	7306.6
5°	7417.0	7382.2	7450.0	7450.0	7401.5	7351.2	7248.5	7176.8	7126.4	7066.3	7056.7
7.5°	7463.5	7438.4	7475.2	7399.6	7277.5	7141.9	6963.6	6824.1	6711.8	6638.1	6640.1
10°	7525.5	7494.5	7465.5	7296.9	7074.1	6824.1	6550.9	6347.5	6161.5	6076.2	6029.7
12.5°	7566.2	7521.7	7399.6	7120.6	6793.1	6457.9	6072.4	5770.1	5500.8	5378.7	5369.0
15°	7616.6	7535.2	7291.1	6892.0	6436.6	5979.4	5483.3	5062.9	4698.6	4508.7	4499.1
17.5°	7682.5	7548.8	7161.3	6630.4	6060.7	5386.5	4762.6	4233.6	3846.1	3698.8	3724.0
20°	7775.5	7564.3	7014.0	6339.7	5593.8	4712.2	3935.2	3448.9	3299.7	3290.0	3270.6
22.5°	7880.1	7574.0	6851.3	6014.2	5028.0	3993.3	3251.3	3043.9	3042.0	3090.4	3102.1
25°	7998.3	7581.7	6667.2	5634.5	4415.7	3276.4	2875.4	2813.4	2861.8	2952.9	2964.5
27.5°	8149.4	7597.2	6444.4	5217.9	3764.7	2830.8	2668.0	2652.5	2710.7	2795.9	2792.0
30°	8372.3	7653.4	6208.0	4739.3	3096.2	2619.6	2542.1	2544.0	2567.3	2608.0	2613.8
32.5°	8599.0	7740.6	5977.4	4200.7	2712.6	2499.5	2464.6	2460.7	2460.7	2478.2	2482.0
35°	8814.0	7839.4	5727.5	3638.8	2526.6	2429.7	2406.5	2394.8	2389.0	2385.2	2379.3
37.5°	8934.2	7887.9	5483.3	3084.6	2427.8	2383.2	2360.0	2344.5	2323.2	2307.7	2303.8
40°	8881.8	7831.7	5200.5	2670.0	2367.7	2338.7	2311.5	2290.2	2261.2	2247.6	2239.8
42.5°	8707.5	7657.3	4892.4	2474.3	2319.3	2290.2	2257.3	2222.4	2203.0	2191.4	2189.5
45°	8523.4	7446.1	4520.4	2360.0	2272.8	2237.9	2199.1	2160.4	2139.1	2133.3	2131.3
47.5°	8517.6	7341.5	4125.1	2268.9	2216.6	2181.7	2133.3	2094.5	2071.3	2063.5	2055.8
50°	8773.3	7448.0	3679.5	2189.5	2158.5	2121.6	2067.4	2024.8	1995.7	1986.0	1984.1
52.5°	9304.2	7849.1	3280.3	2110.0	2081.0	2038.3	1993.8	1951.1	1916.3	1898.8	1896.9
55°	9877.8	8358.7	3032.3	2028.6	1989.9	1953.1	1912.4	1865.9	1827.1	1800.0	1796.1
57.5°	10470.7	8914.8	2956.7	1926.0	1896.9	1871.7	1823.3	1772.9	1728.3	1703.1	1697.3
60°	10958.9	9393.4	3098.2	1817.4	1801.9	1769.0	1724.4	1676.0	1645.0	1625.6	1621.8
62.5°	9174.4	7647.6	2501.4	1699.3	1699.3	1664.4	1614.0	1579.1	1557.8	1544.2	1540.4
65°	5822.4	4735.4	1707.0	1581.1	1579.1	1532.6	1490.0	1466.7	1457.1	1435.7	1431.9
67.5°	2536.3	2164.3	1459.0	1460.9	1453.2	1402.8	1360.2	1342.7	1323.4	1300.1	1298.2
70°	1315.6	1340.8	1305.9	1327.2	1313.7	1253.6	1212.9	1185.8	1145.1	1121.9	1123.8
72.5°	1061.8	1088.9	1127.7	1160.6	1131.5	1083.1	1019.2	986.2	933.9	908.7	910.7
75°	809.9	839.0	875.8	910.7	887.4	827.3	786.7	753.7	693.7	664.6	670.4
77.5°	558.0	573.5	618.1	616.1	608.4	591.0	530.9	492.1	430.1	395.3	399.1
80°	346.8	356.5	377.8	387.5	383.6	360.4	311.9	282.9	246.1	224.8	226.7
82.5°	209.3	215.1	234.4	236.4	234.4	217.0	180.2	158.9	135.6	124.0	124.0
85°	106.6	110.4	122.1	122.1	110.4	93.0	83.3	73.6	60.1	54.3	54.3
87.5°	29.1	29.1	36.8	31.0	25.2	23.3	11.6	9.7	3.9	1.9	1.9
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)