

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: P640509

Luminaire Tested: GWS-SA5E-722-U-SL3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640509  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-722-U-SL3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

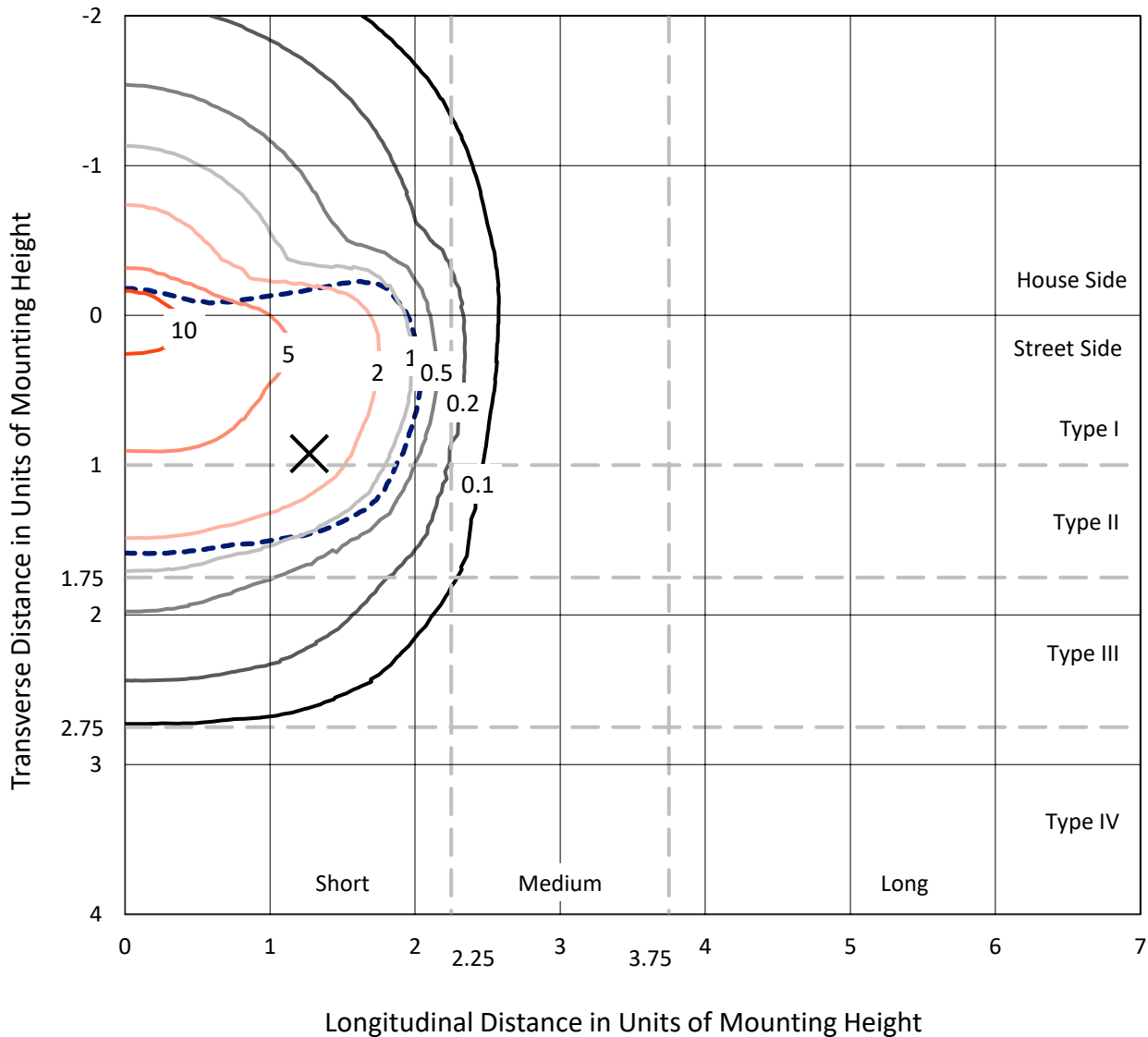
Lumens per Lamp: N/A  
Luminaire Lumens: 23157.4 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

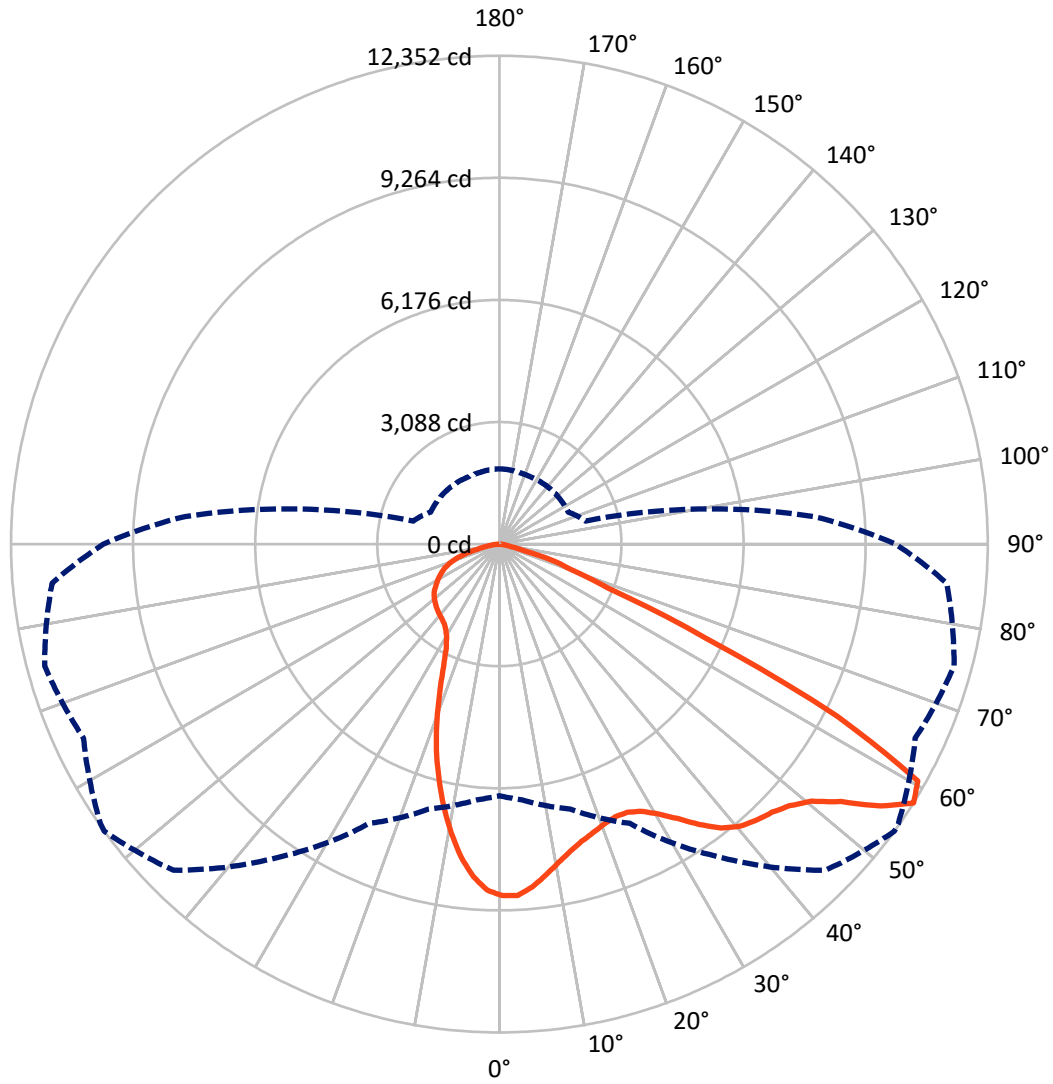
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6732.1	0.0	6732.1
	% Fixture	29.1	0.0	29.1
<b>Street Side</b>	Lumens	16425.3	0.0	16425.3
	% Fixture	70.9	0.0	70.9
<b>Total</b>	Lumens	23157.4	0.0	23157.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	781.5	3.4
10°-20°	1864.7	8.1
20°-30°	2580.5	11.1
30°-40°	3585.6	15.5
40°-50°	4735.5	20.4
50°-60°	5627.4	24.3
60°-70°	3117.7	13.5
70°-80°	776.4	3.4
80°-90°	88.3	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°	23157.4	100.0
0°-180°	23157.4	100.0

**Coefficient of Utilization**



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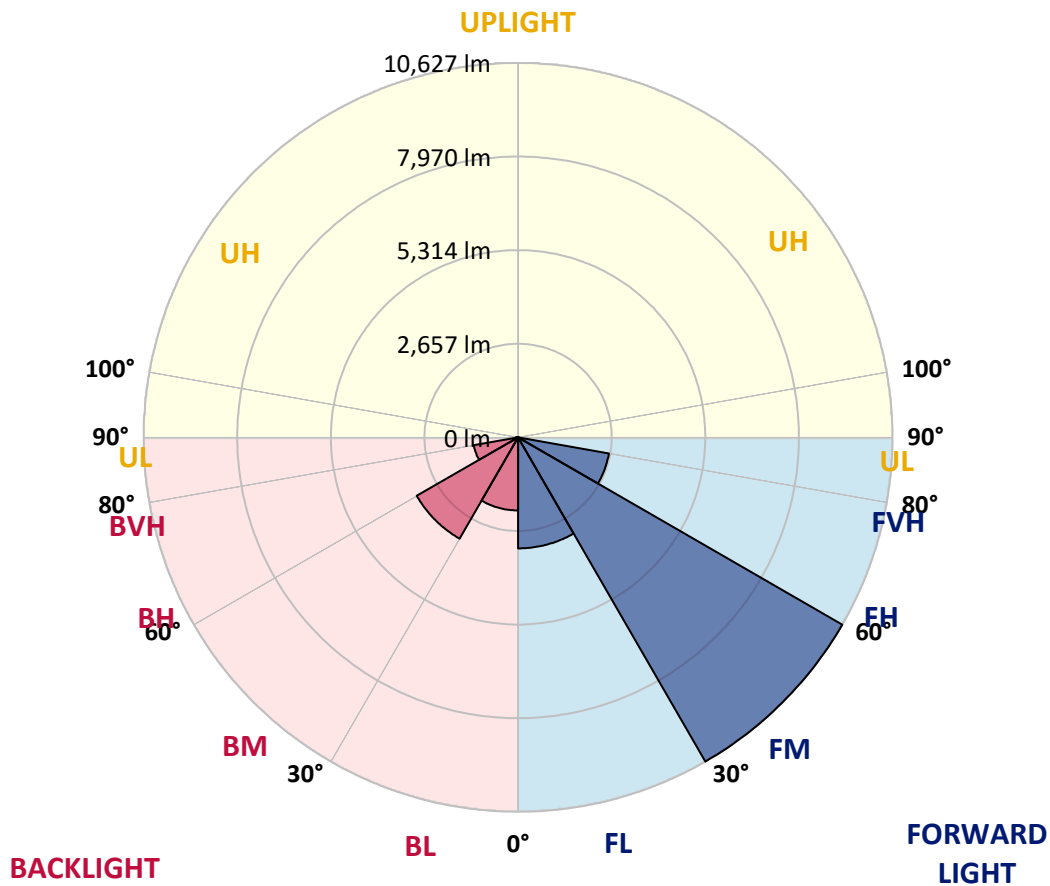
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3152.1	13.6			
FM (30°-60°)	10627.3	45.9			
FH (60°-80°)	2618.3	11.3			G2/5000
FVH (80°-90°)	27.6	0.1			G1/100
BL (0°-30°)	2074.6	9.0	B3/2500		
BM (30°-60°)	3321.1	14.3	B3/5000		
BH (60°-80°)	1275.8	5.5	B3/2500		G3/2500
BVH (80°-90°)	60.7	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°	54°	55°	65°	75°	85°
0°	8890.7	8890.7	8890.7	8890.7	8890.7	8890.7	8890.7	8890.7	8890.7	8890.7	8890.7
2.5°	8724.1	8742.0	8753.9	8795.5	8831.2	8862.9	8896.6	8896.6	8894.6	8888.7	8876.8
5°	8379.2	8399.0	8426.8	8484.3	8561.6	8617.1	8708.3	8716.2	8755.9	8771.7	8763.8
7.5°	7978.8	7984.7	8020.4	8095.7	8218.6	8317.8	8448.6	8464.5	8559.6	8615.1	8605.2
10°	7540.7	7520.9	7584.3	7695.3	7855.9	8022.4	8190.9	8204.8	8357.4	8462.5	8454.5
12.5°	7140.3	7142.3	7205.7	7340.5	7540.7	7746.9	7972.8	8004.6	8192.9	8327.7	8313.8
15°	6805.3	6813.2	6890.5	7043.1	7271.1	7516.9	7798.4	7828.1	8066.0	8244.4	8204.8
17.5°	6537.7	6545.6	6613.0	6787.4	7031.2	7328.6	7671.5	7701.3	7996.6	8208.7	8127.5
20°	6353.3	6349.3	6414.7	6581.3	6833.0	7156.1	7560.5	7604.1	7974.8	8222.6	8075.9
22.5°	6278.0	6276.0	6323.6	6460.3	6696.2	7023.3	7493.1	7552.6	7998.6	8284.1	8044.2
25°	6315.6	6307.7	6349.3	6450.4	6638.7	6971.8	7512.9	7576.4	8099.7	8410.9	8050.2
27.5°	6432.6	6422.7	6458.4	6549.5	6692.3	7025.3	7651.7	7725.1	8313.8	8642.9	8129.4
30°	6611.0	6605.1	6640.7	6728.0	6852.8	7203.7	7917.3	8000.6	8644.8	9003.6	8301.9
32.5°	6819.1	6809.2	6872.7	6973.8	7118.5	7528.8	8274.2	8383.2	9037.3	9467.5	8591.3
35°	7053.1	7045.1	7132.3	7279.0	7487.2	7980.8	8706.3	8825.2	9437.8	9992.8	8975.9
37.5°	7281.0	7281.0	7449.5	7667.6	7929.2	8472.4	9112.7	9188.0	9715.3	10458.7	9388.2
40°	7483.2	7495.1	7748.8	8075.9	8409.0	8916.4	9380.3	9443.7	9838.2	10779.8	9747.0
42.5°	7707.2	7717.1	8012.5	8440.7	8837.1	9275.2	9542.8	9574.5	9862.0	10940.4	10000.7
45°	7885.6	7899.5	8266.2	8724.1	9209.8	9544.8	9671.7	9699.4	9895.7	11027.6	10185.1
47.5°	7978.8	7998.6	8418.9	8952.1	9461.6	9786.7	9883.8	9895.7	10034.4	11180.2	10407.1
50°	7962.9	8002.6	8476.3	9065.1	9647.9	10030.5	10224.7	10244.6	10317.9	11404.2	10666.8
52.5°	8103.7	8121.5	8599.3	9199.9	9913.5	10480.5	10817.5	10845.2	10811.5	11572.7	10821.4
55°	7869.8	7955.0	8446.6	9180.1	10317.9	11176.3	11695.6	11681.7	11259.5	11761.0	11079.1
57.5°	6365.2	6490.1	6940.1	7792.5	9651.9	11663.9	12351.8	12318.1	11606.4	11905.7	11358.6
60°	4406.7	4426.5	4832.9	5437.5	7449.5	10304.0	12159.5	12232.8	11669.8	11723.4	10841.2
62.5°	3524.5	3518.6	3556.3	3572.1	4737.7	7243.4	9598.3	9865.9	9695.5	9134.5	7683.4
65°	3009.1	3030.9	3142.0	3084.5	3092.4	4079.6	5734.8	5772.5	5653.5	5451.3	4063.7
67.5°	2355.0	2392.6	2588.9	2812.9	2741.5	2626.6	2975.4	2957.6	2331.2	1803.9	1490.7
70°	1474.8	1498.6	1708.7	2208.3	2386.7	2156.8	1912.9	1905.0	1248.9	1026.8	1126.0
72.5°	860.3	864.3	923.8	1231.0	1583.9	1474.8	1407.4	1355.9	802.8	818.7	898.0
75°	473.8	473.8	471.8	531.3	624.4	553.1	535.2	521.3	537.2	608.6	668.0
77.5°	99.1	101.1	107.0	140.7	182.4	222.0	279.5	281.5	350.9	406.4	453.9
80°	45.6	47.6	59.5	75.3	97.1	128.9	170.5	172.5	212.1	255.7	287.4
82.5°	23.8	25.8	31.7	39.6	51.5	67.4	95.2	95.2	126.9	150.7	170.5
85°	7.9	7.9	11.9	15.9	21.8	27.8	37.7	37.7	55.5	73.3	85.2
87.5°	0.0	0.0	0.0	0.0	2.0	4.0	7.9	7.9	9.9	11.9	19.8
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°	8890.7	8890.7	8890.7	8890.7	8890.7	8890.7	8890.7	8890.7	8890.7	8890.7	8890.7
2.5°	8851.0	8789.6	8791.5	8803.4	8765.8	8708.3	8670.6	8623.0	8593.3	8587.4	8609.2
5°	8724.1	8652.8	8603.2	8551.7	8444.6	8317.8	8218.6	8137.4	8083.9	8064.0	8040.2
7.5°	8549.7	8456.5	8331.6	8186.9	7992.7	7766.7	7608.1	7459.4	7356.3	7326.6	7312.7
10°	8375.3	8240.5	8018.4	7748.8	7425.7	7120.5	6833.0	6613.0	6438.5	6339.4	6371.1
12.5°	8194.9	8028.3	7681.4	7267.1	6817.2	6357.3	5980.6	5615.9	5334.4	5193.6	5152.0
15°	8036.3	7810.3	7326.6	6765.6	6167.0	5588.1	5043.0	4495.9	4139.1	3944.8	3891.3
17.5°	7901.5	7608.1	6952.0	6254.2	5538.6	4713.9	4043.9	3536.4	3292.6	3185.6	3177.6
20°	7768.7	7409.9	6581.3	5703.1	4813.0	3889.3	3290.6	3052.8	2965.5	2927.9	2925.9
22.5°	7649.7	7201.7	6190.7	5152.0	4091.5	3268.8	2939.8	2836.7	2812.9	2812.9	2808.9
25°	7548.6	6993.6	5790.3	4567.2	3439.3	2910.0	2757.4	2713.8	2723.7	2741.5	2743.5
27.5°	7507.0	6831.0	5403.8	3966.6	2989.3	2701.9	2632.5	2626.6	2654.3	2682.1	2686.0
30°	7550.6	6720.0	5007.3	3391.7	2719.7	2575.0	2543.3	2555.2	2588.9	2616.6	2616.6
32.5°	7685.4	6664.5	4602.9	2971.5	2563.1	2485.8	2475.9	2487.8	2513.6	2529.4	2531.4
35°	7913.4	6686.3	4184.7	2688.0	2462.0	2420.4	2418.4	2426.3	2436.3	2446.2	2448.2
37.5°	8200.8	6783.5	3736.7	2523.5	2396.6	2372.8	2368.9	2366.9	2368.9	2368.9	2370.8
40°	8482.3	6930.1	3336.2	2426.3	2351.0	2331.2	2321.3	2307.4	2305.4	2301.5	2299.5
42.5°	8690.4	7043.1	3017.1	2357.0	2309.4	2285.6	2273.7	2251.9	2249.9	2247.9	2246.0
45°	8847.0	7138.3	2751.4	2289.6	2265.8	2244.0	2218.2	2198.4	2202.3	2206.3	2206.3
47.5°	9023.5	7221.5	2557.2	2226.1	2212.3	2190.5	2158.7	2144.9	2158.7	2172.6	2172.6
50°	9237.6	7338.5	2398.6	2162.7	2156.8	2131.0	2103.2	2097.3	2113.1	2133.0	2133.0
52.5°	9394.2	7439.6	2285.6	2099.3	2099.3	2065.6	2041.8	2039.8	2057.6	2077.5	2079.4
55°	9687.5	7675.5	2246.0	2025.9	2018.0	1992.2	1974.4	1960.5	1982.3	2000.1	2000.1
57.5°	10018.6	7988.7	2255.9	1920.9	1910.9	1903.0	1889.1	1873.3	1879.2	1899.1	1901.0
60°	9316.8	7382.1	2146.8	1815.8	1809.8	1805.9	1788.0	1760.3	1768.2	1784.1	1786.1
62.5°	6507.9	4906.2	1736.5	1685.0	1704.8	1702.8	1679.0	1647.3	1649.3	1671.1	1671.1
65°	3377.9	2654.3	1524.4	1566.0	1595.8	1583.9	1544.2	1516.5	1512.5	1540.3	1534.3
67.5°	1457.0	1449.1	1387.6	1441.1	1472.9	1447.1	1405.5	1359.9	1363.8	1373.7	1365.8
70°	1173.5	1209.2	1235.0	1292.5	1318.2	1270.7	1225.1	1199.3	1177.5	1175.5	1161.6
72.5°	937.6	987.2	1044.7	1104.1	1112.1	1064.5	1007.0	983.2	949.5	947.5	933.7
75°	705.7	747.3	792.9	840.5	840.5	794.9	757.2	745.3	705.7	693.8	681.9
77.5°	481.7	507.5	543.2	555.0	566.9	549.1	511.4	491.6	446.0	434.1	418.3
80°	303.3	321.1	342.9	350.9	362.8	341.0	311.2	289.4	257.7	247.8	239.9
82.5°	182.4	194.3	208.1	212.1	222.0	206.2	178.4	162.5	144.7	136.8	130.8
85°	93.2	99.1	107.0	109.0	107.0	91.2	81.3	73.3	61.5	59.5	55.5
87.5°	23.8	27.8	29.7	27.8	25.8	19.8	13.9	9.9	4.0	4.0	2.0
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)