

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: P643345

Luminaire Tested: GWS-SA6E-760-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643345  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6E-760-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (96) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

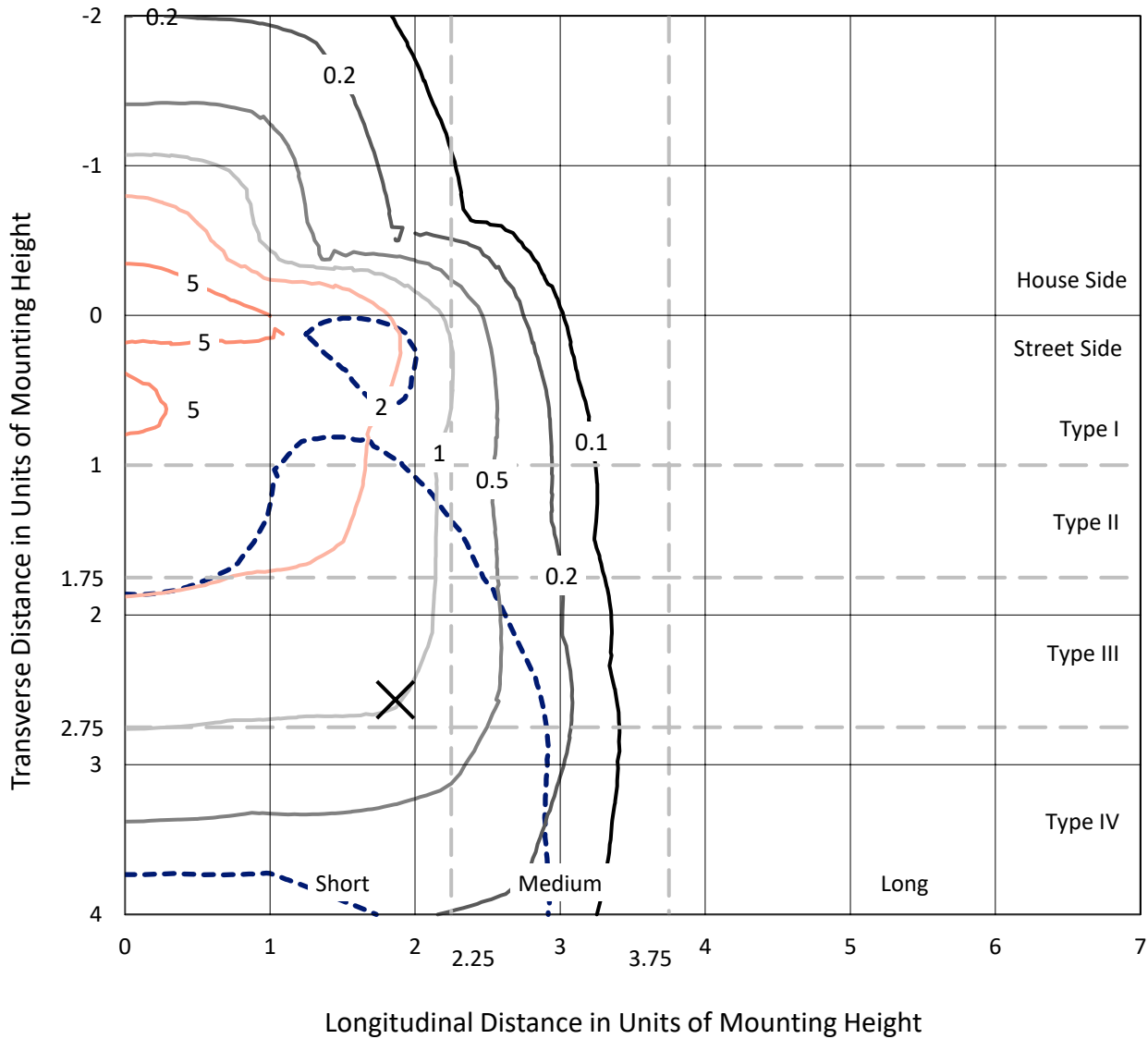
Lumens per Lamp: N/A  
Luminaire Lumens: 43623.3 lumens  
Efficiency: N/A  
Efficacy: 134.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

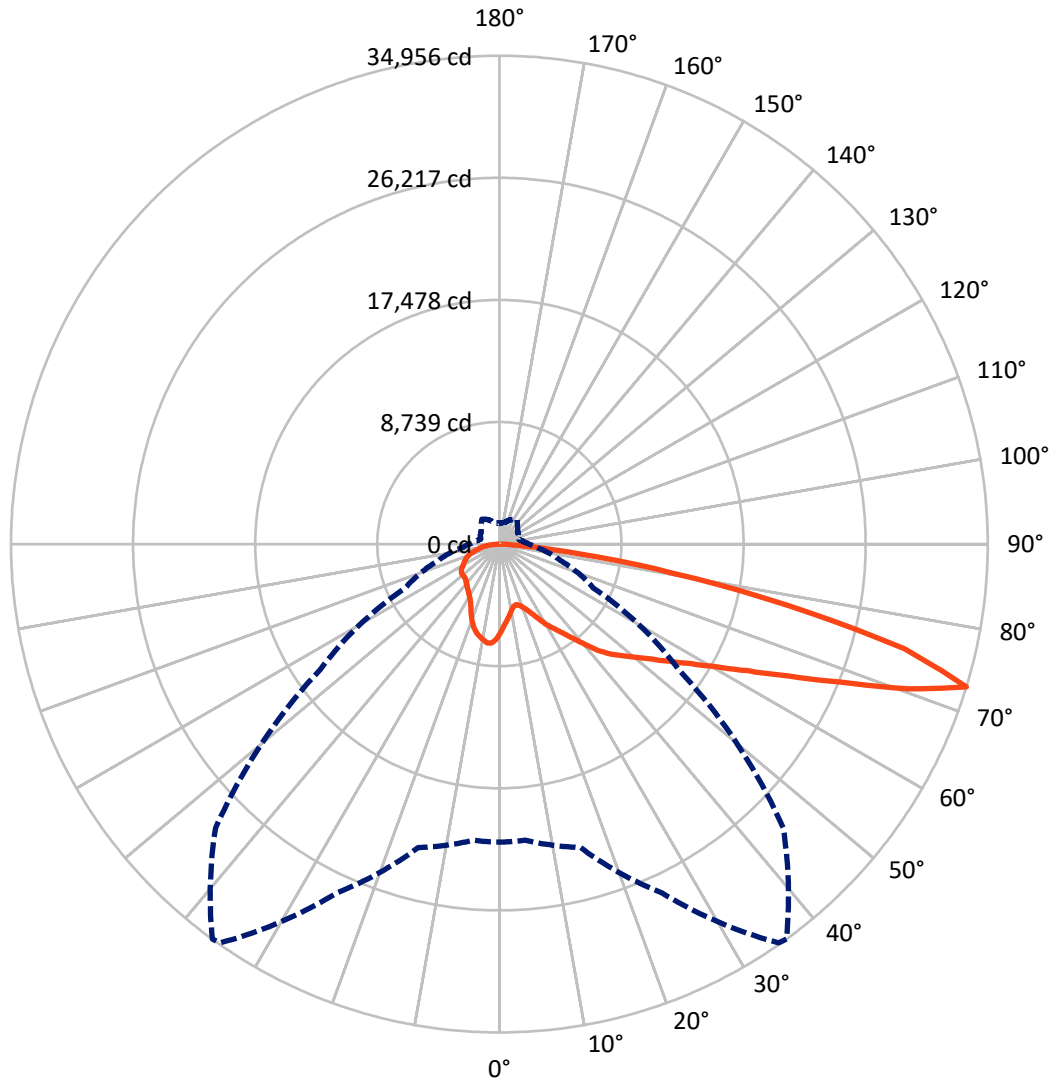
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10057.1	0.0	10057.1
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	33566.2	0.0	33566.2
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	43623.3	0.0	43623.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	596.8	1.4
10°-20°	1683.7	3.9
20°-30°	2788.5	6.4
30°-40°	4176.0	9.6
40°-50°	6092.4	14.0
50°-60°	8671.3	19.9
60°-70°	10955.6	25.1
70°-80°	7806.8	17.9
80°-90°	852.2	2.0
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°	43623.3	100.0
0°-180°	43623.3	100.0

**Coefficient of Utilization**



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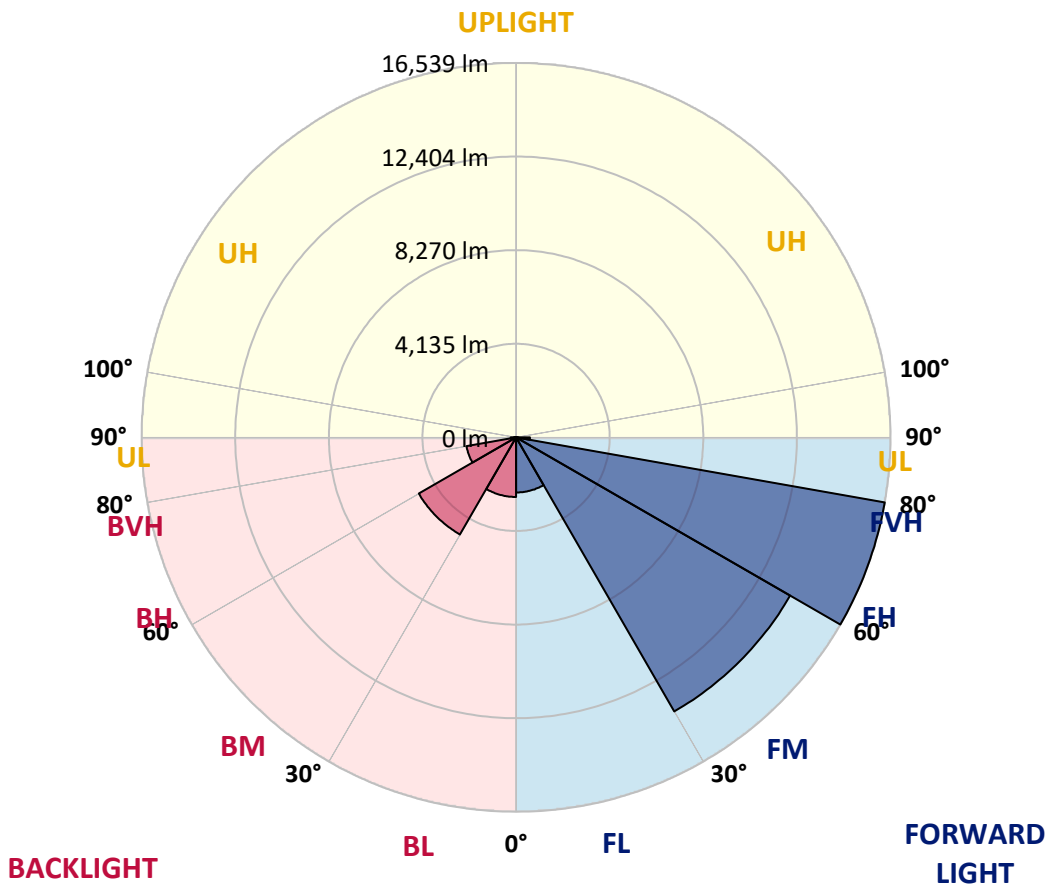
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2435.4	5.6			
FM (30°-60°)	13980.2	32.0			
FH (60°-80°)	16539.0	37.9			G5
FVH (80°-90°)	611.7	1.4			G4/750
BL (0°-30°)	2633.6	6.0	B4/5000		
BM (30°-60°)	4959.5	11.4	B3/5000		
BH (60°-80°)	2223.4	5.1	B3/2500		G3/2500
BVH (80°-90°)	240.5	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	6384.5	6384.5	6384.5	6384.5	6384.5	6384.5	6384.5	6384.5	6384.5	6384.5	6384.5
2.5°	5824.4	5814.7	5795.2	5853.5	5911.8	5905.3	5986.2	6063.9	6148.1	6235.5	6352.1
5°	5358.2	5351.7	5335.5	5422.9	5510.3	5507.1	5639.8	5766.1	5937.7	6125.5	6358.6
7.5°	4892.0	4875.8	4898.4	5008.5	5131.5	5144.5	5325.8	5533.0	5782.3	6063.9	6394.2
10°	4480.8	4477.5	4487.3	4610.3	4794.8	4807.8	5040.9	5329.0	5659.3	6034.8	6475.1
12.5°	4373.9	4367.5	4341.6	4403.1	4542.3	4561.7	4817.5	5170.4	5575.1	6051.0	6585.2
15°	4548.8	4532.6	4441.9	4412.8	4480.8	4497.0	4713.9	5076.5	5526.5	6080.1	6724.4
17.5°	4849.9	4840.1	4668.6	4548.8	4594.1	4607.0	4768.9	5060.3	5513.6	6138.4	6896.0
20°	5290.2	5248.1	4979.4	4798.1	4798.1	4817.5	4914.6	5131.5	5529.7	6209.6	7090.3
22.5°	5872.9	5788.8	5410.0	5163.9	5099.2	5125.1	5167.1	5309.6	5597.7	6329.4	7333.1
25°	6526.9	6449.2	5999.2	5652.8	5562.1	5571.8	5536.2	5562.1	5746.7	6494.5	7634.2
27.5°	7223.0	7171.2	6692.0	6251.7	6109.3	6109.3	5983.0	5921.5	5953.9	6682.3	7970.9
30°	7844.6	7773.4	7368.7	6886.3	6698.5	6698.5	6458.9	6326.2	6248.5	6912.2	8420.9
32.5°	8171.6	8129.5	7860.8	7491.7	7261.8	7226.2	7019.0	6863.6	6682.3	7252.1	9029.6
35°	8599.0	8589.2	8427.4	8139.2	7847.8	7796.0	7653.6	7530.6	7216.5	7676.3	9838.9
37.5°	9136.4	9120.2	9094.3	8922.7	8573.1	8563.3	8437.1	8288.1	7880.2	8288.1	10819.9
40°	9738.6	9709.4	9677.1	9673.8	9463.4	9427.8	9418.1	9249.7	8679.9	9026.3	11843.0
42.5°	10567.4	10467.0	10162.7	10298.7	10454.1	10421.7	10544.7	10292.2	9677.1	9903.7	12811.0
45°	11587.2	11341.2	10739.0	10777.8	11169.6	11234.3	11661.7	11600.2	10774.6	10917.0	13830.8
47.5°	12199.1	11985.4	11425.3	11393.0	11881.8	11962.8	12892.0	13008.5	11956.3	12137.6	15090.3
50°	12700.9	12552.0	12092.3	12137.6	12655.6	12736.6	14112.5	14361.8	13070.0	13387.3	16553.6
52.5°	13306.4	13092.7	12736.6	12950.2	13584.8	13681.9	15469.1	15737.8	14073.7	14760.0	18068.8
55°	13646.3	13558.9	13565.4	13892.4	14688.8	14821.5	16890.3	16845.0	14993.1	15935.3	19208.4
57.5°	14429.8	14397.4	14695.3	14818.3	15977.4	16148.9	18311.6	17923.1	15828.4	16845.0	19755.6
60°	15812.2	15731.3	15990.3	16178.1	17570.2	17813.0	19898.0	18978.6	16395.0	17521.7	19571.0
62.5°	17754.8	17654.4	17664.1	17962.0	19703.8	19959.5	21662.5	19859.2	16569.8	17625.3	18402.3
65°	20170.0	20024.3	19859.2	20263.9	22536.6	22750.3	23582.4	20500.2	16152.2	16628.1	15961.2
67.5°	22717.9	22598.2	22403.9	23252.1	26204.8	26334.3	25735.4	20445.2	14828.0	13960.4	11195.5
70°	22866.9	22896.0	23815.5	26884.7	30993.1	31025.5	27771.8	19337.9	12008.1	9049.0	5578.3
72.5°	21332.3	21283.7	22481.6	27548.4	34845.8	34955.9	28733.3	15666.5	7420.5	4513.2	2615.9
75°	17327.4	17411.6	18671.0	24103.6	29866.5	29963.6	23423.7	9236.8	3525.7	2208.0	1673.8
77.5°	7459.3	7928.8	10412.0	16981.0	21390.5	21089.5	12072.9	3742.6	1881.0	1573.5	1282.1
80°	2153.0	2337.5	3710.2	8074.5	12817.5	12590.9	4778.6	1401.9	1311.2	1181.7	919.5
82.5°	696.1	770.5	1359.8	3214.9	5743.4	5737.0	1813.0	828.8	858.0	802.9	592.5
85°	194.3	223.4	417.6	974.5	1777.4	1741.8	524.5	391.7	456.5	463.0	294.6
87.5°	0.0	0.0	3.2	6.5	6.5	6.5	13.0	58.3	132.7	168.4	119.8
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°	6384.5	6384.5	6384.5	6384.5	6384.5	6384.5	6384.5	6384.5	6384.5	6384.5	6384.5
2.5°	6423.3	6413.6	6546.3	6649.9	6747.1	6811.8	6831.2	6844.2	6870.1	6883.0	6870.1
5°	6468.6	6517.2	6737.4	6899.2	7028.7	7106.4	7109.7	7103.2	7122.6	7106.4	7096.7
7.5°	6565.8	6659.7	6938.1	7109.7	7193.9	7197.1	7119.4	7028.7	6983.4	6944.6	6931.6
10°	6695.3	6834.5	7138.8	7252.1	7226.2	7106.4	6934.9	6792.4	6711.5	6653.2	6640.2
12.5°	6873.3	7028.7	7316.9	7313.6	7151.8	6938.1	6737.4	6565.8	6449.2	6381.2	6358.6
15°	7041.7	7239.2	7446.4	7294.2	7038.5	6779.4	6520.4	6290.6	6135.2	6028.3	6008.9
17.5°	7248.9	7459.3	7540.3	7232.7	6896.0	6562.5	6216.1	5915.0	5704.6	5578.3	5568.6
20°	7488.5	7676.3	7585.6	7125.9	6711.5	6274.4	5804.9	5468.2	5241.6	5118.6	5128.3
22.5°	7766.9	7902.9	7598.5	6980.2	6455.7	5866.5	5342.0	5018.2	4866.1	4801.3	4804.5
25°	8064.8	8152.2	7575.9	6782.7	6063.9	5367.9	4866.1	4717.1	4704.2	4688.0	4694.5
27.5°	8417.7	8398.2	7507.9	6504.3	5536.2	4788.3	4532.6	4571.4	4623.2	4616.8	4623.2
30°	8890.3	8705.8	7420.5	6119.0	4908.1	4302.7	4335.1	4445.2	4513.2	4519.6	4539.1
32.5°	9431.0	9045.7	7281.3	5594.5	4309.2	4030.8	4150.5	4283.3	4364.2	4380.4	4406.3
35°	10075.3	9434.2	7035.2	4940.5	3878.6	3868.9	3979.0	4069.6	4157.0	4163.5	4163.5
37.5°	10816.7	9822.8	6643.5	4218.5	3613.1	3729.7	3833.3	3852.7	3875.4	3855.9	3865.6
40°	11496.6	10198.3	6086.6	3561.3	3396.2	3606.6	3694.1	3629.3	3558.1	3509.5	3519.2
42.5°	12066.4	10454.1	5348.4	3101.6	3176.0	3496.6	3564.6	3431.8	3292.6	3201.9	3214.9
45°	12707.4	10690.4	4480.8	2790.8	2988.3	3418.9	3464.2	3292.6	3114.5	2978.6	2959.1
47.5°	13591.3	11172.8	3710.2	2573.9	2855.5	3376.8	3451.2	3218.1	2985.0	2781.1	2758.4
50°	14682.3	11855.9	3066.0	2431.4	2794.0	3354.1	3448.0	3137.2	2858.8	2619.2	2603.0
52.5°	15873.7	12522.9	2590.0	2321.3	2732.5	3286.1	3431.8	3046.5	2726.0	2467.0	2447.6
55°	16667.0	12785.1	2269.5	2217.7	2632.1	3179.3	3367.1	2959.1	2525.3	2289.0	2259.8
57.5°	16900.1	12448.4	2046.1	2123.8	2502.6	3030.4	3244.0	2774.6	2402.3	2214.5	2191.8
60°	16498.6	11600.2	1906.9	2046.1	2360.2	2839.3	3030.4	2667.7	2305.1	2136.8	2120.6
62.5°	15365.5	10292.2	1800.1	1965.2	2214.5	2638.6	2894.4	2538.2	2198.3	2065.6	2042.9
65°	13086.2	8440.3	1712.7	1881.0	2075.3	2447.6	2745.4	2408.7	2081.8	1981.4	1955.5
67.5°	9152.6	5928.0	1618.8	1780.7	1936.1	2263.1	2590.0	2289.0	1962.0	1887.5	1861.6
70°	4474.3	3143.7	1505.5	1664.1	1787.1	2075.3	2434.6	2143.3	1803.3	1761.2	1725.6
72.5°	2130.3	1758.0	1372.7	1505.5	1583.2	1826.0	2175.6	1932.8	1615.5	1524.9	1463.4
75°	1427.8	1249.7	1197.9	1317.7	1337.1	1531.4	1864.8	1667.3	1424.5	1320.9	1269.1
77.5°	1081.3	955.1	1006.9	1113.7	1074.9	1259.4	1534.6	1486.0	1285.3	1191.4	1165.5
80°	760.8	696.1	799.7	864.4	835.3	1071.6	1382.4	1272.4	1058.7	955.1	935.7
82.5°	479.2	466.2	589.2	598.9	608.7	848.2	1136.4	1000.4	822.3	676.6	628.1
85°	239.6	265.5	352.9	352.9	349.7	437.1	647.5	563.3	443.5	352.9	343.2
87.5°	80.9	113.3	152.2	123.0	93.9	74.5	84.2	103.6	110.1	106.8	106.8
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)