

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: P643633

Luminaire Tested: GWS-SA6F-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643633  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGF-735-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

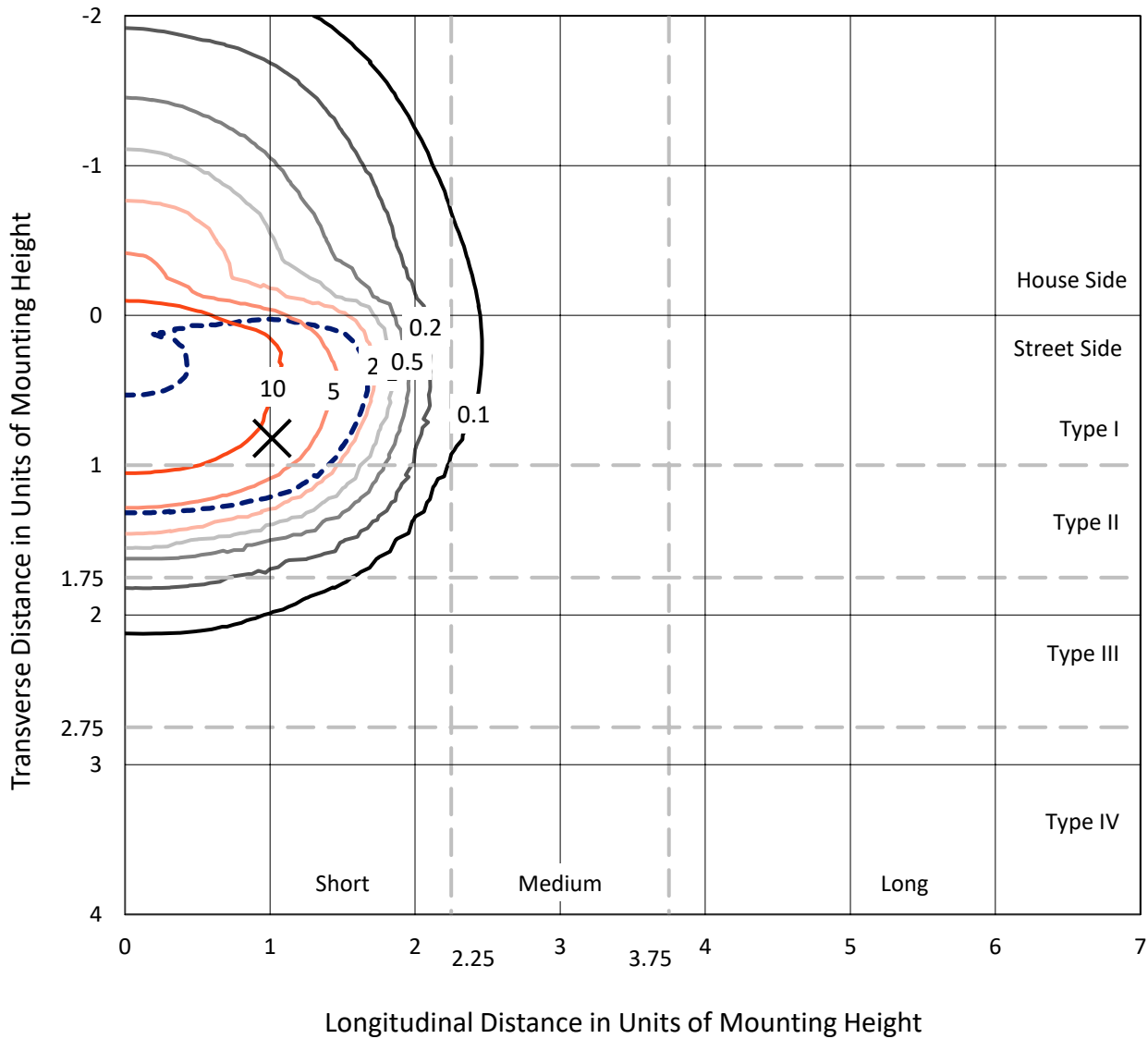
Lumens per Lamp: N/A  
Luminaire Lumens: 44532.6 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

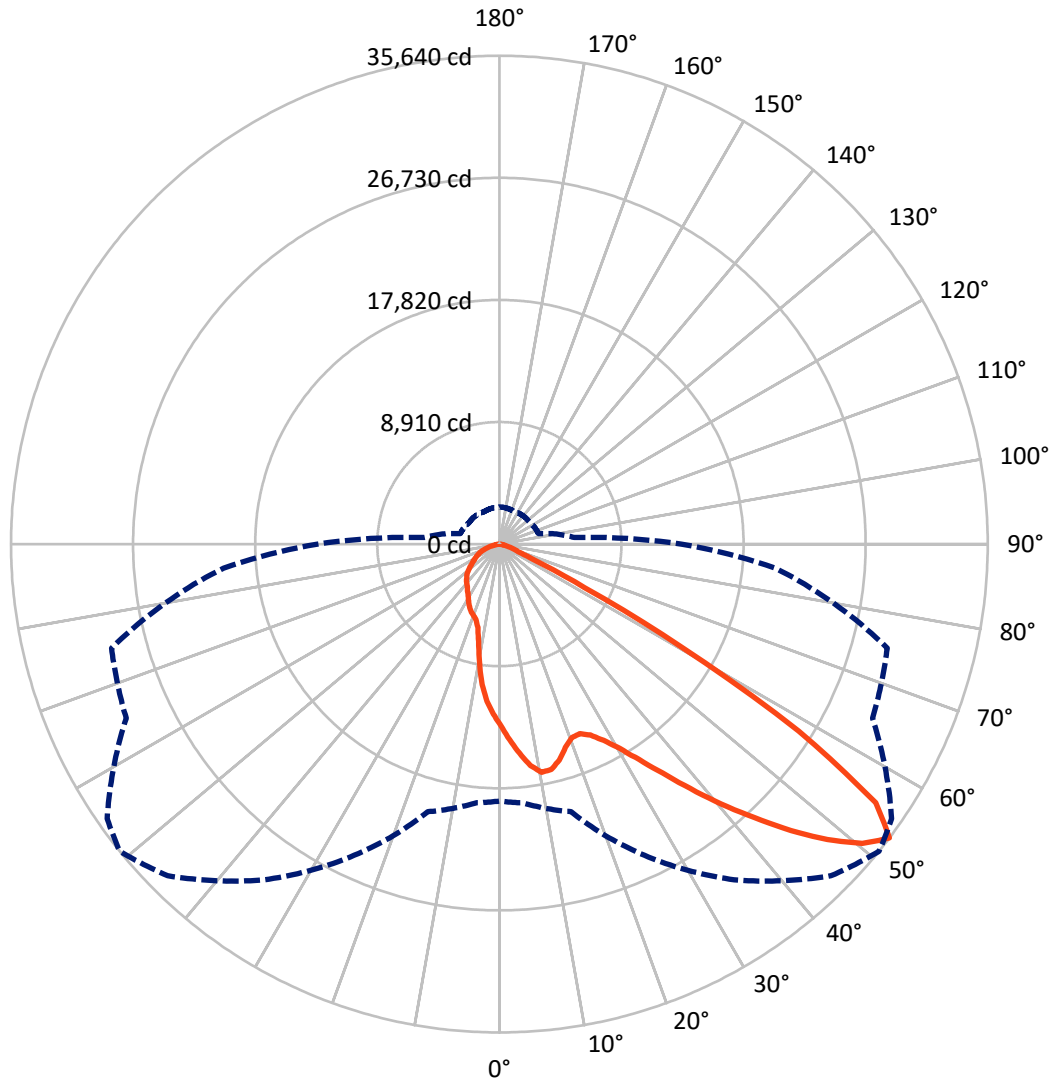
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 18 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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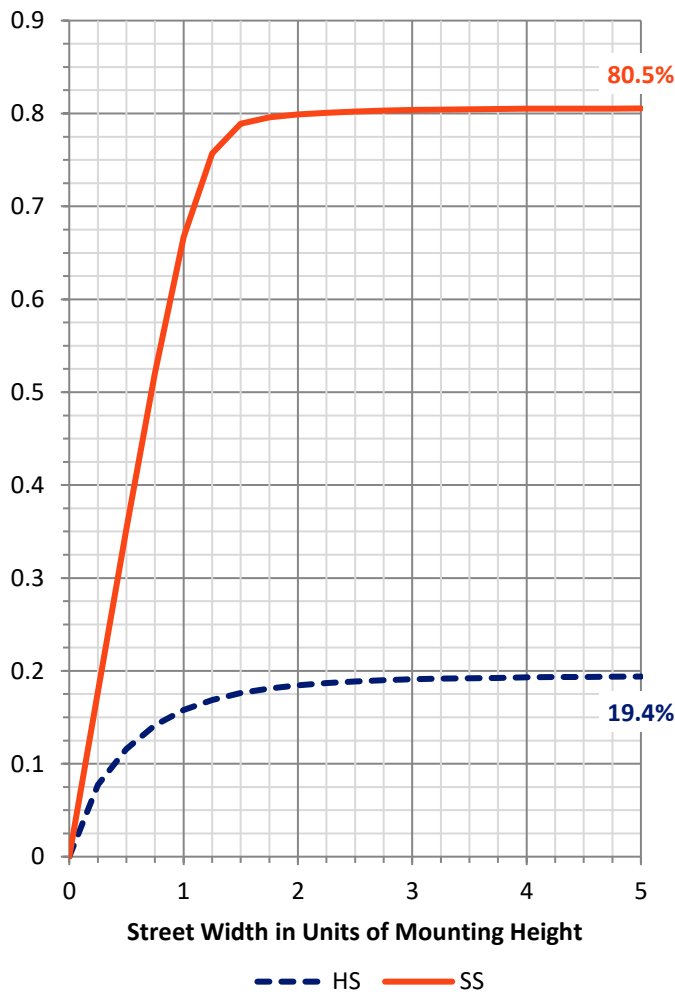
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8676.8	0.0	8676.8
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	35855.8	0.0	35855.8
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	44532.6	0.0	44532.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1237.3	2.8
10°-20°	3215.0	7.2
20°-30°	5227.3	11.7
30°-40°	8284.2	18.6
40°-50°	12494.3	28.1
50°-60°	10808.5	24.3
60°-70°	2450.4	5.5
70°-80°	722.5	1.6
80°-90°	93.1	0.2
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°	44532.6	100.0
0°-180°	44532.6	100.0

**Coefficient of Utilization**



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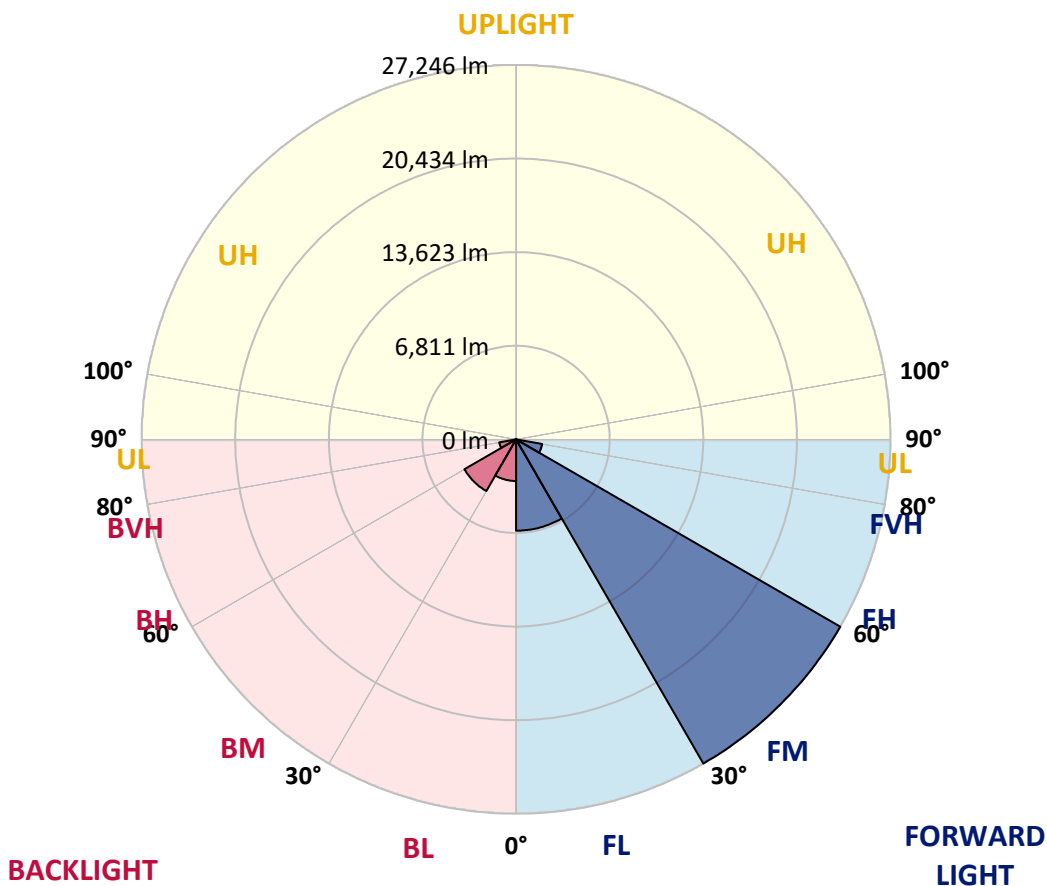
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6646.6	14.9			
FM (30°-60°)	27245.7	61.2			
FH (60°-80°)	1928.4	4.3			G2/5000
FVH (80°-90°)	35.1	0.1			G1/100
BL (0°-30°)	3033.0	6.8	B4/5000		
BM (30°-60°)	4341.3	9.7	B3/5000		
BH (60°-80°)	1244.5	2.8	B3/2500		G3/2500
BVH (80°-90°)	58.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	13259.6	13259.6	13259.6	13259.6	13259.6	13259.6	13259.6	13259.6	13259.6	13259.6	13259.6
2.5°	14776.3	14860.7	14730.5	14681.3	14600.3	14459.6	14297.7	14251.9	13903.6	13674.8	13417.9
5°	16261.3	16307.0	16201.5	16095.9	15895.3	15645.5	15332.3	15265.4	14632.0	14107.7	13562.2
7.5°	16592.1	16574.5	16666.0	16725.8	16701.2	16602.6	16324.6	16194.4	15437.8	14607.4	13801.5
10°	15283.0	15184.5	15522.3	15923.5	16405.6	16961.6	16929.9	16919.3	16261.3	15279.5	14107.7
12.5°	13548.1	13498.9	13773.4	14276.6	15188.0	16419.6	16880.6	17239.6	17003.8	15919.9	14449.0
15°	12555.8	12538.2	12724.7	13087.1	13812.1	15367.5	16352.8	17063.6	17640.7	16606.1	14811.5
17.5°	12376.3	12386.9	12450.2	12657.8	13178.6	14459.6	15599.7	16592.1	18136.9	17359.2	15265.4
20°	12900.6	12971.0	12861.9	12893.6	13175.1	14132.3	15085.9	16117.0	18453.6	18115.8	15754.5
22.5°	14065.4	14040.8	13801.5	13660.7	13664.3	14332.9	15029.6	15895.3	18661.2	18851.3	16197.9
25°	15385.1	15356.9	15071.9	14758.7	14561.6	14878.3	15434.3	16131.1	18847.7	19523.4	16553.4
27.5°	16944.0	16856.0	16539.3	16138.1	15701.8	15839.0	16215.5	16768.0	19136.3	20185.0	16789.1
30°	18453.6	18555.7	18101.7	17626.7	17165.7	17081.2	17299.4	17799.1	19724.0	20959.1	17070.6
32.5°	20455.9	20420.7	19917.5	19298.2	18640.1	18576.8	18749.2	19206.7	20779.7	22028.9	17500.0
35°	22880.5	22887.5	22173.2	21335.7	20399.6	20230.7	20519.3	20962.7	22352.7	23478.7	18179.1
37.5°	25400.1	25389.6	24766.7	23816.6	22539.2	22299.9	22630.7	22961.4	24319.8	25452.9	19234.8
40°	27166.6	27237.0	26945.0	26445.3	25234.7	24650.6	24942.6	25171.4	26459.3	27775.4	20624.8
42.5°	28169.6	28275.1	28338.5	28637.6	28000.7	27377.8	27272.2	27391.9	28370.1	29932.6	21930.4
45°	28384.2	28525.0	28986.0	30094.5	30340.8	30164.8	29820.0	29531.4	29795.3	31463.3	22785.5
47.5°	27437.6	27683.9	28669.3	30608.2	32047.5	32600.0	32216.4	31776.5	30618.8	31857.5	22697.5
50°	23686.4	23974.9	26195.4	29559.6	32290.3	34303.2	34338.4	33687.3	30520.3	30720.8	21592.6
52.5°	18752.7	18949.8	20220.2	25058.8	29907.9	34232.8	35640.4	34943.6	30045.2	29299.2	20209.6
55°	11208.0	11524.7	12710.6	16532.2	23299.3	30340.8	33339.0	33676.8	29812.9	28106.2	19266.5
57.5°	3782.9	3937.8	5070.9	7301.9	13731.1	22215.4	25759.1	27131.5	27064.6	26283.4	17426.1
60°	1801.7	1836.9	2065.7	2769.4	5496.7	11609.2	15247.8	16831.4	18274.1	18418.4	10842.0
62.5°	1372.4	1393.5	1509.6	1661.0	2209.9	4891.4	6988.7	8199.3	8758.8	7516.6	3948.3
65°	1147.2	1164.8	1252.8	1347.8	1502.6	2118.4	2681.5	3093.2	2787.0	2171.2	1882.7
67.5°	957.2	971.2	1038.1	1140.2	1245.7	1418.2	1488.5	1530.8	1604.7	1801.7	1731.3
70°	749.5	763.6	834.0	922.0	1024.0	1066.3	1133.1	1175.3	1323.1	1576.5	1569.5
72.5°	577.1	594.7	633.4	689.7	774.2	816.4	890.3	939.6	1024.0	1228.1	1312.6
75°	422.3	432.8	468.0	485.6	496.2	485.6	559.5	615.8	728.4	805.9	827.0
77.5°	172.4	193.5	186.5	186.5	221.7	267.4	306.2	341.3	418.8	464.5	468.0
80°	70.4	77.4	91.5	102.1	123.2	158.4	183.0	197.1	232.3	260.4	281.5
82.5°	42.2	45.7	52.8	56.3	70.4	91.5	105.6	116.1	144.3	172.4	183.0
85°	21.1	21.1	24.6	28.2	35.2	42.2	49.3	56.3	73.9	91.5	102.1
87.5°	3.5	3.5	3.5	7.0	10.6	14.1	17.6	21.1	24.6	28.2	35.2
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°	13259.6	13259.6	13259.6	13259.6	13259.6	13259.6	13259.6	13259.6	13259.6	13259.6	13259.6
2.5°	13266.6	13076.6	12854.9	12678.9	12474.8	12323.5	12108.9	11975.1	11848.5	11742.9	11665.5
5°	13280.7	12960.5	12499.5	12091.3	11669.0	11267.8	10856.1	10521.8	10222.7	9972.8	9951.7
7.5°	13361.6	12900.6	12179.2	11464.9	10641.4	9846.2	9050.9	8403.4	7910.7	7653.8	7601.0
10°	13498.9	12893.6	11852.0	10711.8	9307.7	8026.8	7083.7	6591.1	6306.0	6204.0	6168.8
12.5°	13643.1	12876.0	11433.2	9649.1	7699.6	6577.0	6059.7	5999.9	6052.7	6059.7	6056.2
15°	13819.1	12865.4	10905.4	8403.4	6524.2	5904.9	5940.1	6066.7	6189.9	6218.1	6218.1
17.5°	14033.8	12840.8	10187.5	7185.8	5788.7	5774.7	5961.2	6130.1	6246.2	6267.3	6267.3
20°	14259.0	12777.5	9304.2	6193.4	5489.6	5693.7	5894.3	6024.5	6105.5	6133.6	6137.1
22.5°	14413.8	12608.6	8287.2	5458.0	5303.1	5538.9	5683.2	5816.9	5816.9	5746.5	5725.4
25°	14445.5	12246.1	7185.8	4954.7	5081.4	5299.6	5447.4	5370.0	5225.7	5169.4	5165.9
27.5°	14329.4	11718.3	6098.4	4595.8	4814.0	5032.2	5007.5	4894.9	4831.6	4775.3	4796.4
30°	14188.6	11084.8	5155.3	4300.2	4504.3	4719.0	4634.5	4595.8	4550.1	4486.7	4500.8
32.5°	14093.6	10377.5	4430.4	4071.5	4296.7	4331.9	4391.7	4388.2	4346.0	4226.3	4219.3
35°	14121.7	9663.2	3944.8	3885.0	4124.3	4110.2	4222.8	4201.7	3909.6	3744.2	3733.7
37.5°	14346.9	8977.0	3659.8	3737.2	3849.8	3937.8	4036.3	3782.9	3680.9	3575.3	3582.3
40°	14776.3	8340.0	3504.9	3656.2	3684.4	3814.6	3585.9	3582.3	3536.6	3441.6	3438.1
42.5°	15261.9	7801.6	3399.4	3617.5	3578.8	3603.5	3360.6	3388.8	3385.3	3325.5	3307.9
45°	15557.5	7305.4	3314.9	3473.2	3483.8	3237.5	3163.6	3195.2	3212.8	3181.2	3177.7
47.5°	15251.3	6735.4	3226.9	3251.6	3343.0	3072.1	2980.6	2984.1	3015.8	3019.3	3005.2
50°	14392.7	6098.4	3121.3	3061.5	3001.7	2899.7	2815.2	2797.6	2829.3	2860.9	2871.5
52.5°	13284.2	5489.6	2945.4	2853.9	2713.1	2713.1	2674.4	2618.1	2660.4	2702.6	2716.7
55°	12471.3	5039.2	2695.6	2593.5	2438.7	2491.4	2484.4	2435.1	2491.4	2523.1	2533.7
57.5°	10806.8	4050.4	2371.8	2340.1	2209.9	2273.3	2287.3	2224.0	2195.9	2202.9	2213.4
60°	6415.1	2614.6	2139.5	2136.0	2019.9	2093.8	2136.0	2072.7	1988.2	1998.8	2012.9
62.5°	2878.5	1998.8	1847.5	1833.4	1829.9	1924.9	1970.6	1910.8	1791.2	1801.7	1815.8
65°	1812.3	1727.8	1604.7	1604.7	1661.0	1741.9	1777.1	1727.8	1590.6	1573.0	1587.1
67.5°	1682.1	1608.2	1481.5	1456.9	1485.0	1551.9	1555.4	1460.4	1379.4	1365.4	1365.4
70°	1509.6	1453.3	1330.2	1280.9	1270.4	1266.8	1256.3	1231.6	1178.9	1164.8	1171.8
72.5°	1249.2	1210.5	1133.1	1080.3	1052.2	1048.7	1006.4	985.3	939.6	932.5	929.0
75°	827.0	837.5	837.5	830.5	805.9	795.3	749.5	728.4	675.6	654.5	651.0
77.5°	489.1	499.7	513.8	517.3	513.8	513.8	471.5	446.9	394.1	366.0	358.9
80°	299.1	306.2	313.2	323.7	309.7	299.1	260.4	235.8	211.1	193.5	190.0
82.5°	193.5	200.6	204.1	211.1	204.1	190.0	158.4	144.3	126.7	112.6	109.1
85°	109.1	112.6	119.6	119.6	109.1	98.5	80.9	70.4	59.8	52.8	52.8
87.5°	38.7	38.7	38.7	42.2	35.2	31.7	21.1	14.1	10.6	10.6	10.6
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)