

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: P641162

Luminaire Tested: GWS-SA5F-735-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641162  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-735-U-RW-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

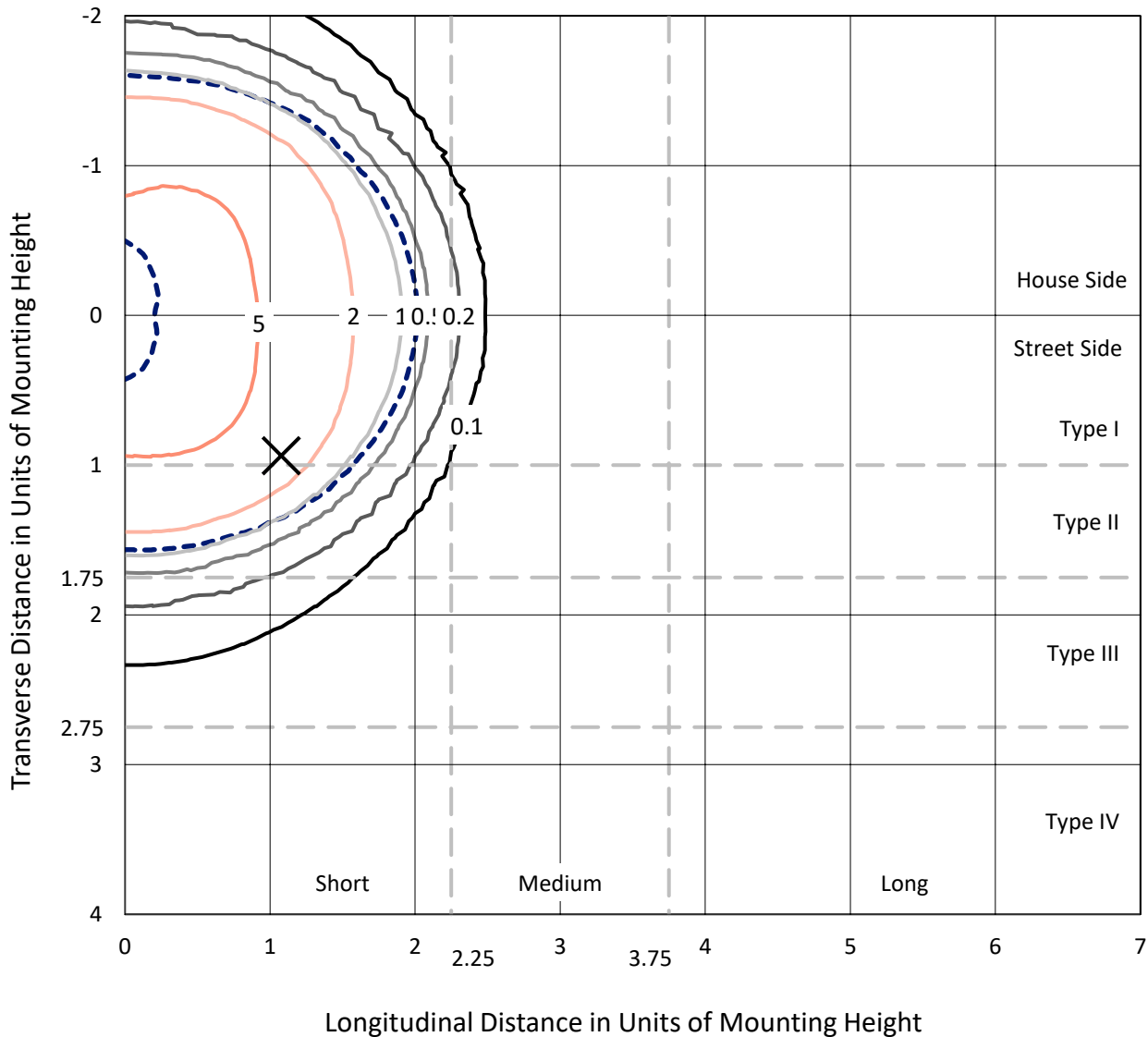
Lumens per Lamp: N/A  
Luminaire Lumens: 36289.6 lumens  
Efficiency: N/A  
Efficacy: 117.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

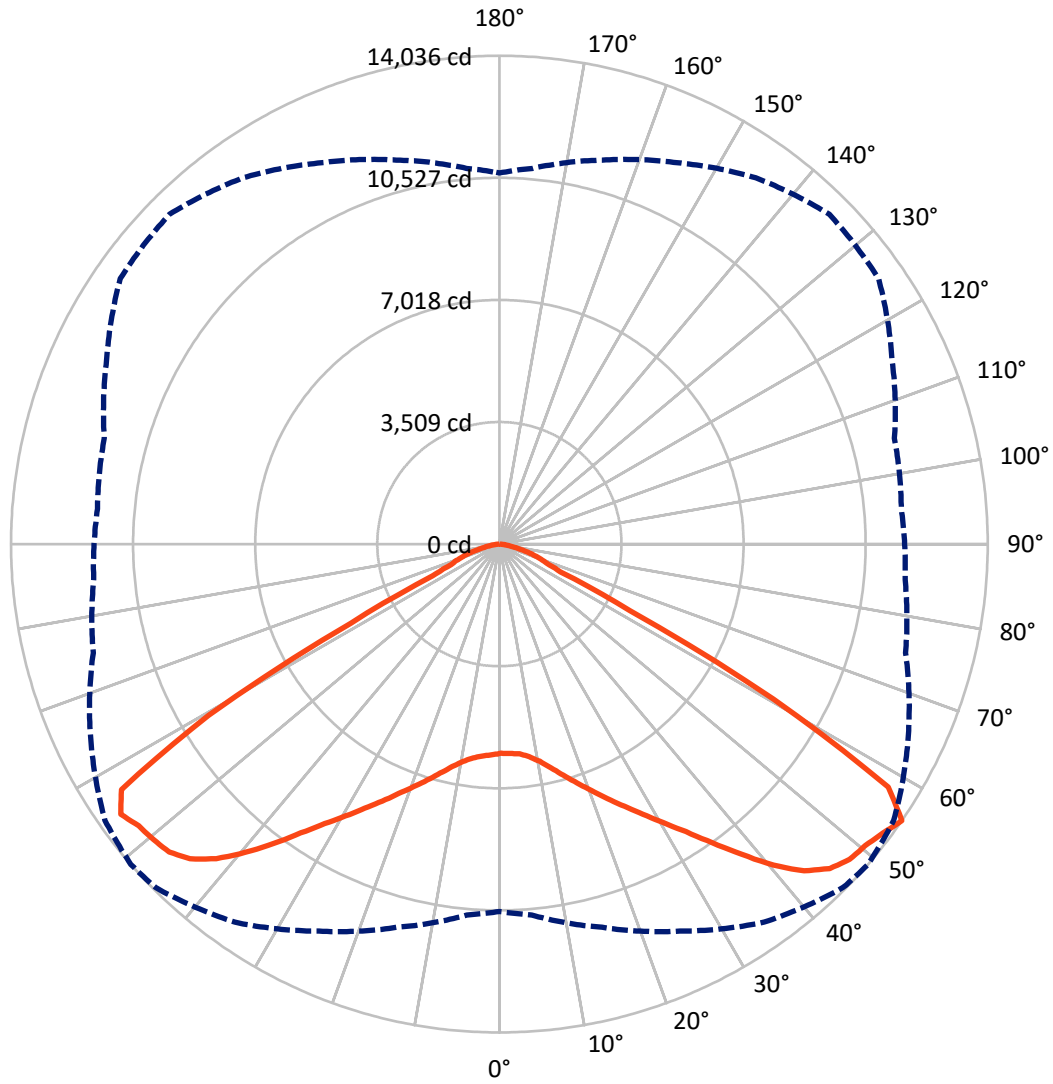
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17966.8	0.0	17966.8
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	18322.8	0.0	18322.8
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	36289.6	0.0	36289.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	586.4	1.6
10°-20°	1934.3	5.3
20°-30°	3684.3	10.2
30°-40°	6245.7	17.2
40°-50°	9399.3	25.9
50°-60°	10288.4	28.4
60°-70°	3253.2	9.0
70°-80°	780.8	2.2
80°-90°	117.2	0.3
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°	36289.6	100.0
0°-180°	36289.6	100.0

**Coefficient of Utilization**



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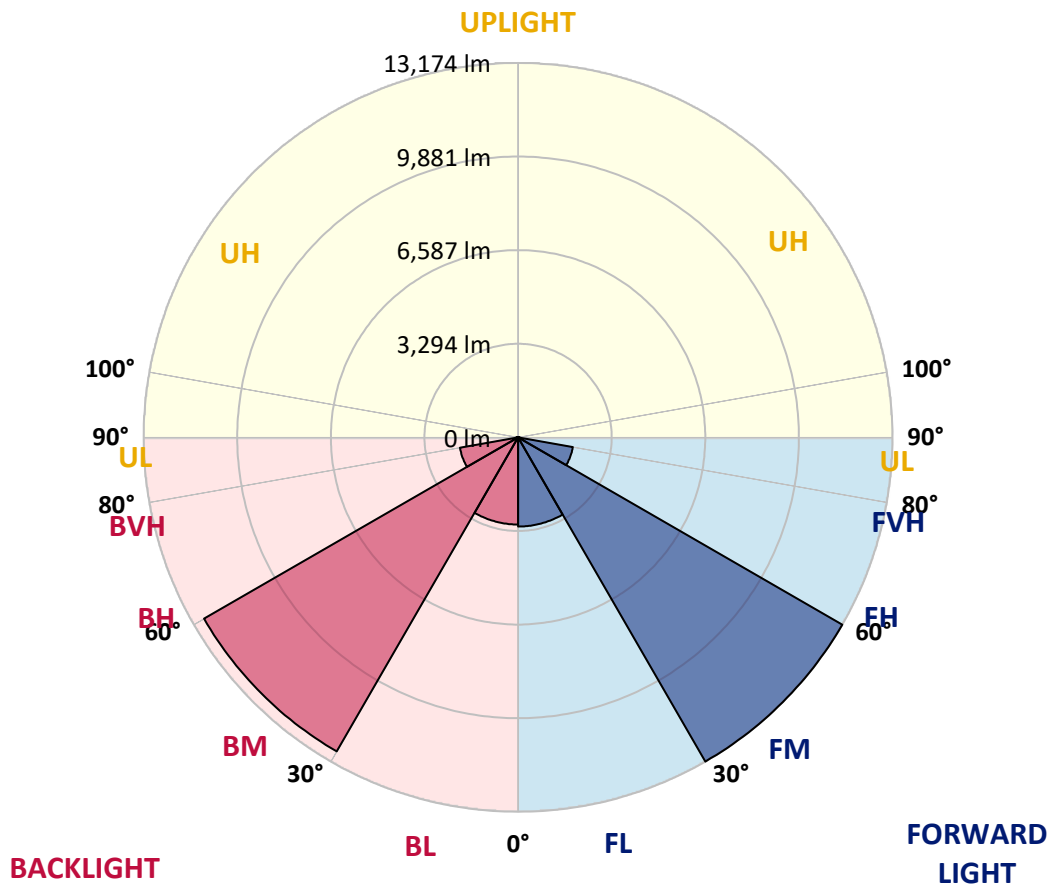
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3137.6	8.6			
FM (30°-60°)	13174.1	36.3			
FH (60°-80°)	1956.9	5.4			G2/5000
FVH (80°-90°)	54.2	0.1			G1/100
BL (0°-30°)	3067.5	8.5	B4/5000		
BM (30°-60°)	12759.2	35.2	B5		
BH (60°-80°)	2077.2	5.7	B3/2500		G2/5000
BVH (80°-90°)	62.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	6011.6	6011.6	6011.6	6011.6	6011.6	6011.6	6011.6	6011.6	6011.6	6011.6	6011.6
2.5°	5923.1	5929.0	5940.8	5961.4	5982.1	6011.6	6023.4	6038.2	6035.2	6052.9	6052.9
5°	5893.5	5902.4	5920.1	5949.6	5985.0	6041.1	6055.9	6091.3	6126.7	6171.0	6185.7
7.5°	5929.0	5940.8	5961.4	6008.6	6061.8	6135.5	6165.1	6224.1	6292.0	6371.6	6404.1
10°	5996.8	6011.6	6047.0	6123.7	6209.3	6321.5	6348.0	6421.8	6531.0	6640.2	6705.1
12.5°	6073.6	6097.2	6162.1	6283.1	6410.0	6557.6	6598.9	6690.4	6808.4	6950.1	7038.6
15°	6162.1	6182.8	6283.1	6454.3	6652.0	6846.8	6894.0	6982.5	7115.3	7254.0	7378.0
17.5°	6348.0	6383.4	6501.5	6699.2	6929.4	7159.6	7212.7	7313.1	7419.3	7528.5	7646.6
20°	6601.8	6631.3	6781.9	7026.8	7298.3	7507.9	7561.0	7649.5	7699.7	7755.8	7856.1
22.5°	6855.6	6897.0	7068.1	7357.3	7676.1	7903.3	7944.6	8027.3	7991.8	7974.1	8039.1
25°	7171.4	7227.5	7395.7	7711.5	8036.1	8316.5	8348.9	8419.8	8360.7	8269.3	8266.3
27.5°	7563.9	7614.1	7788.2	8112.8	8434.5	8726.7	8788.7	8883.1	8753.3	8641.1	8561.4
30°	8030.2	8062.7	8254.5	8599.8	8930.3	9207.7	9287.4	9381.9	9284.5	9098.5	9018.9
32.5°	8573.2	8617.5	8838.8	9201.8	9497.0	9774.4	9854.1	9972.1	9865.9	9656.3	9556.0
35°	9225.4	9269.7	9502.9	9898.3	10199.3	10485.6	10541.7	10639.1	10506.3	10264.3	10184.6
37.5°	9933.7	9989.8	10284.9	10659.7	10975.5	11309.0	11311.9	11341.5	11152.6	10851.6	10763.0
40°	10730.6	10804.3	11099.5	11489.0	11869.7	12141.2	12138.3	12055.6	11736.9	11270.6	11134.9
42.5°	11518.5	11577.6	11875.6	12277.0	12657.7	12914.4	12837.7	12637.0	12176.6	11542.1	11362.1
45°	12088.1	12132.4	12445.2	12896.7	13283.3	13442.7	13304.0	13062.0	12439.3	11713.3	11447.7
47.5°	12356.7	12415.7	12731.5	13180.1	13616.8	13708.3	13543.1	13315.8	12592.8	11872.7	11515.6
50°	12212.1	12288.8	12645.9	13062.0	13554.9	13743.7	13625.7	13398.4	12755.1	12029.1	11636.6
52.5°	11837.3	11911.0	12362.6	12867.2	13425.0	13799.8	13796.9	13610.9	12941.0	12073.4	11642.5
55°	10556.4	10701.0	11403.4	12274.0	13265.6	13965.1	14035.9	13838.2	12970.5	12085.2	11704.5
57.5°	6870.4	7124.2	7791.2	8924.4	10913.5	12702.0	13180.1	13227.3	12758.0	12035.0	11716.3
60°	2868.6	3072.2	3600.5	4353.0	5996.8	8124.7	9051.3	9981.0	11102.4	11509.7	11607.1
62.5°	1782.5	1800.2	1853.4	2024.5	2573.4	3612.3	4208.4	5079.0	6746.4	8166.0	8821.1
65°	1608.4	1617.3	1629.1	1617.3	1643.8	1770.7	1930.1	2234.1	2912.8	3618.2	4456.3
67.5°	1416.6	1428.4	1437.2	1428.4	1437.2	1443.1	1460.8	1487.4	1611.4	1711.7	1788.4
70°	1145.1	1162.8	1177.5	1171.6	1207.0	1207.0	1224.7	1245.4	1307.4	1381.2	1434.3
72.5°	873.6	858.8	876.5	882.4	914.9	932.6	959.1	982.7	1053.6	1097.8	1165.7
75°	566.6	551.9	578.4	593.2	637.5	661.1	684.7	708.3	758.5	788.0	852.9
77.5°	306.9	304.0	330.5	351.2	398.4	427.9	445.6	463.3	504.7	513.5	554.8
80°	177.1	177.1	194.8	209.5	239.0	271.5	289.2	304.0	333.5	342.3	360.0
82.5°	97.4	97.4	106.2	115.1	138.7	156.4	171.2	183.0	209.5	218.4	227.2
85°	47.2	44.3	50.2	56.1	64.9	73.8	82.6	88.5	109.2	115.1	126.9
87.5°	5.9	5.9	5.9	8.9	11.8	17.7	20.7	20.7	32.5	38.4	44.3
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°	6011.6	6011.6	6011.6	6011.6	6011.6	6011.6	6011.6	6011.6	6011.6	6011.6	6011.6
2.5°	6070.6	6032.3	6055.9	6064.7	6064.7	6055.9	6017.5	6005.7	5988.0	5961.4	5961.4
5°	6206.4	6176.9	6182.8	6168.0	6132.6	6088.3	6017.5	5982.1	5952.6	5920.1	5917.2
7.5°	6439.5	6401.2	6395.2	6339.2	6244.7	6150.3	6044.1	5979.1	5934.9	5893.5	5890.6
10°	6743.5	6708.1	6663.8	6551.7	6413.0	6274.2	6129.6	6041.1	5976.2	5917.2	5914.2
12.5°	7082.9	7041.6	6958.9	6793.7	6619.5	6483.8	6318.5	6182.8	6085.4	6005.7	5990.9
15°	7451.8	7392.8	7251.1	7056.3	6885.1	6740.5	6563.5	6368.7	6221.1	6094.2	6079.5
17.5°	7735.1	7658.4	7504.9	7321.9	7180.3	7035.7	6805.5	6560.5	6348.0	6188.7	6165.1
20°	7929.9	7867.9	7693.8	7558.0	7475.4	7348.5	7079.9	6802.5	6563.5	6362.8	6351.0
22.5°	8109.9	8036.1	7864.9	7785.3	7785.3	7699.7	7442.9	7115.3	6835.0	6601.8	6572.3
25°	8313.5	8233.8	8104.0	8095.1	8136.5	8098.1	7788.2	7437.0	7109.4	6846.8	6799.6
27.5°	8596.8	8508.3	8431.6	8484.7	8543.7	8502.4	8157.1	7749.8	7404.6	7139.0	7097.6
30°	9048.4	8939.2	8868.4	8933.3	9048.4	8927.4	8552.6	8121.7	7773.5	7481.3	7460.6
32.5°	9573.7	9449.7	9376.0	9479.3	9582.5	9393.7	9021.8	8608.6	8242.7	7935.8	7900.4
35°	10205.2	10048.8	9939.6	10078.3	10184.6	9998.7	9629.8	9237.3	8830.0	8511.3	8464.0
37.5°	10766.0	10577.1	10503.3	10698.1	10839.8	10718.8	10317.4	9948.5	9502.9	9154.6	9134.0
40°	11173.2	10987.3	10934.2	11255.9	11503.8	11474.3	11114.2	10692.2	10273.1	9871.8	9833.4
42.5°	11350.3	11220.5	11232.3	11666.1	12049.7	12238.6	11916.9	11465.4	11061.1	10645.0	10618.4
45°	11388.7	11309.0	11403.4	11946.5	12451.1	12837.7	12563.3	12185.5	11728.1	11326.7	11314.9
47.5°	11430.0	11385.7	11530.3	12105.8	12704.9	13153.5	13000.0	12610.5	12147.1	11754.6	11725.1
50°	11527.4	11509.7	11672.0	12218.0	12825.9	13239.1	13065.0	12678.4	12203.2	11816.6	11745.8
52.5°	11556.9	11527.4	11760.5	12392.1	13026.6	13236.1	12861.3	12356.7	11878.6	11447.7	11373.9
55°	11648.4	11595.3	11754.6	12457.0	13304.0	13407.3	12849.5	12094.0	11427.0	10839.8	10665.6
57.5°	11672.0	11613.0	11716.3	12350.8	13003.0	12911.5	11294.2	9759.6	8502.4	7850.2	7924.0
60°	11545.1	11562.8	11385.7	11314.9	10429.5	9207.7	6914.7	5527.6	4341.2	3839.5	3948.7
62.5°	8788.7	8862.5	8257.5	7180.3	5521.7	4376.6	2895.1	2248.8	1903.5	1815.0	1829.7
65°	4435.7	4536.0	3907.4	3231.6	2402.3	1941.9	1679.2	1626.1	1608.4	1587.7	1587.7
67.5°	1756.0	1785.5	1761.9	1649.7	1534.6	1493.3	1481.5	1475.6	1454.9	1443.1	1446.1
70°	1410.7	1434.3	1398.9	1328.0	1280.8	1277.9	1272.0	1260.2	1245.4	1245.4	1254.3
72.5°	1151.0	1174.6	1124.4	1080.1	1044.7	1018.2	1003.4	994.6	973.9	973.9	982.7
75°	847.0	861.8	820.4	814.5	776.2	749.6	726.0	714.2	687.6	675.8	684.7
77.5°	563.7	560.7	540.1	540.1	525.3	492.9	466.3	439.7	404.3	380.7	386.6
80°	365.9	365.9	357.1	357.1	342.3	315.8	283.3	256.8	236.1	218.4	218.4
82.5°	233.1	230.2	227.2	224.3	218.4	191.8	168.2	150.5	135.8	124.0	126.9
85°	129.9	129.9	124.0	124.0	112.1	97.4	85.6	73.8	64.9	62.0	62.0
87.5°	44.3	44.3	41.3	41.3	35.4	26.6	20.7	17.7	14.8	11.8	14.8
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)