

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: P643202

Luminaire Tested: GWS-SA6E-740-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643202  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-740-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

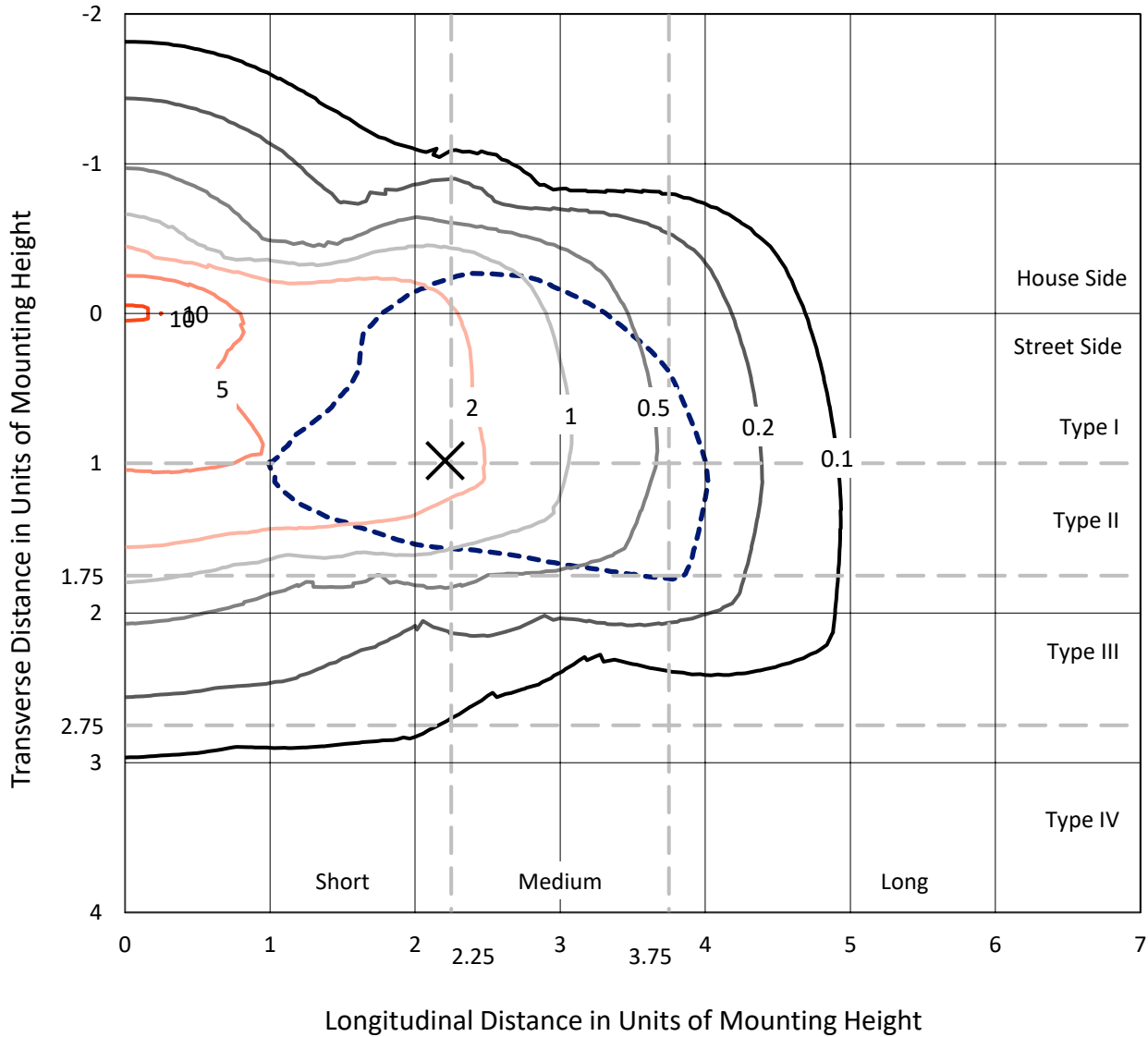
Lumens per Lamp: N/A  
Luminaire Lumens: 43989.5 lumens  
Efficiency: N/A  
Efficacy: 135.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P643202  
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### Iso-Footcandle Lines of Horizontal Illumination

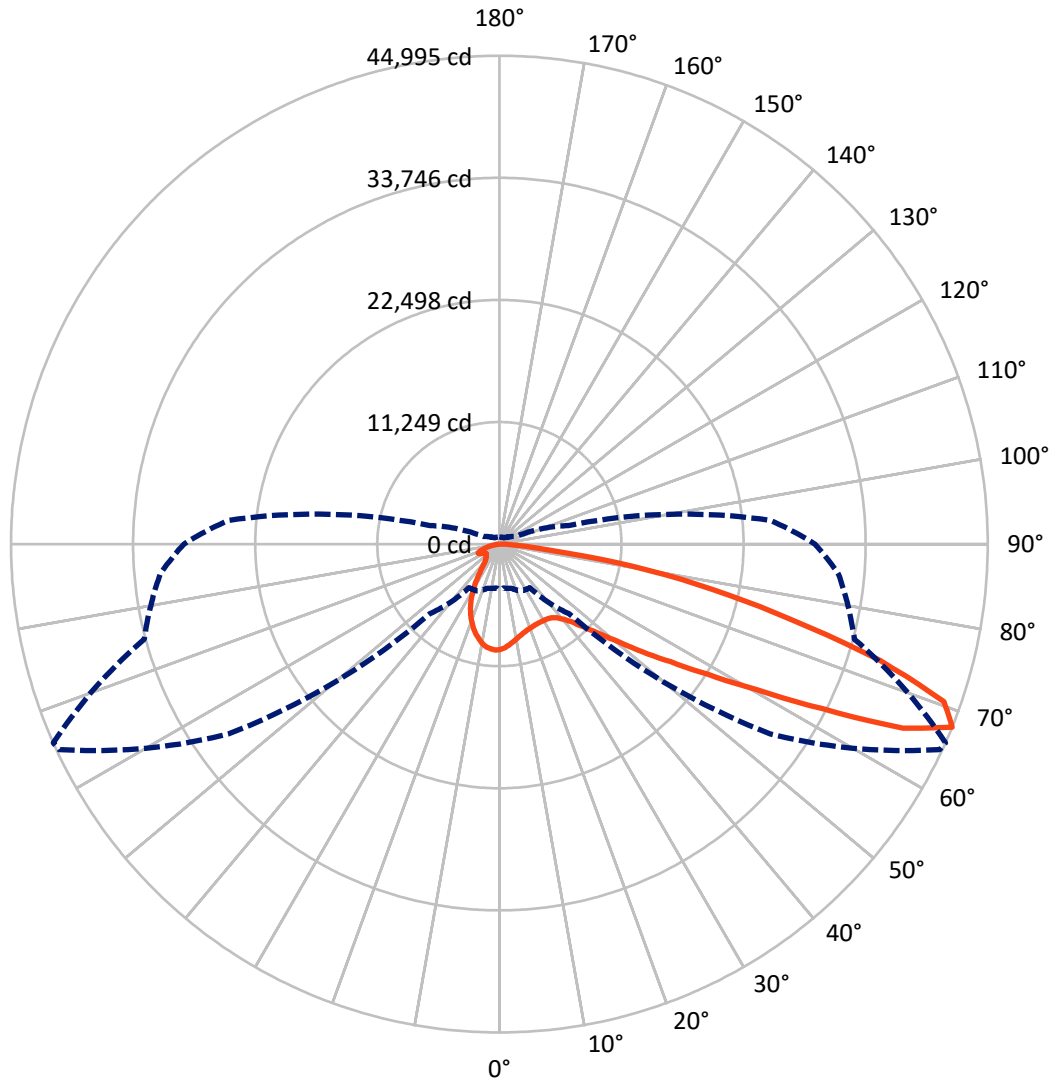
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P643202  
CATALOG NUMBER: GWS-SA6E-740-U-SL2-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P643202

CATALOG NUMBER: GWS-SA6E-740-U-SL2-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8926.5	0.0	8926.5
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	35063.0	0.0	35063.0
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	43989.5	0.0	43989.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	853.1	1.9
10°-20°	2096.6	4.8
20°-30°	2881.8	6.6
30°-40°	3939.9	9.0
40°-50°	5970.0	13.6
50°-60°	9280.5	21.1
60°-70°	11298.8	25.7
70°-80°	6882.7	15.6
80°-90°	786.2	1.8
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°	43989.5	100.0
0°-180°	43989.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P643202

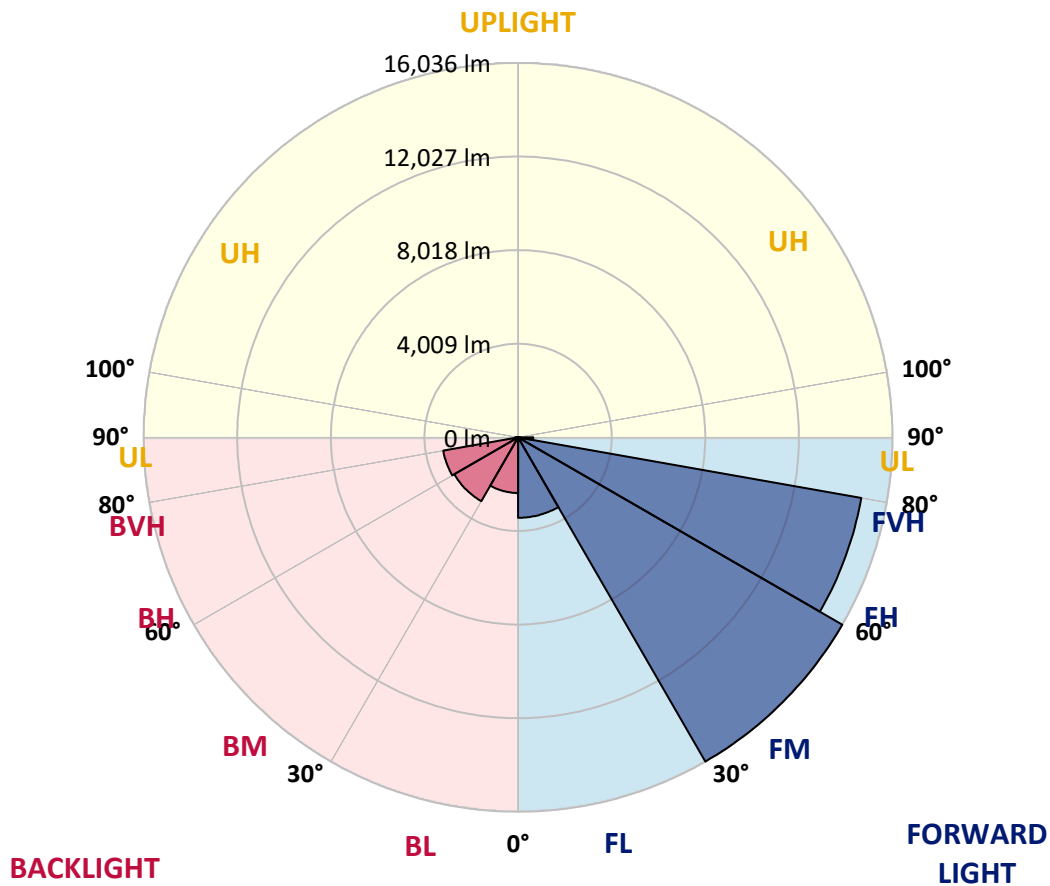
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3446.8	7.8			
FM (30°-60°)	16035.8	36.5			
FH (60°-80°)	14926.8	33.9			G5
FVH (80°-90°)	653.6	1.5			G4/750
BL (0°-30°)	2384.7	5.4	B3/2500		
BM (30°-60°)	3154.5	7.2	B3/5000		
BH (60°-80°)	3254.7	7.4	B4/5000		G4/5000
BVH (80°-90°)	132.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Short





REPORT NUMBER: P643202

CATALOG NUMBER: GWS-SA6E-740-U-SL2-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4
2.5°	9104.3	9136.4	9117.1	9239.1	9245.5	9399.5	9486.2	9560.0	9566.4	9662.7	9726.8
5°	8481.7	8501.0	8501.0	8616.5	8693.5	8898.9	9097.9	9309.7	9325.7	9556.8	9733.3
7.5°	7977.9	7997.1	7984.3	8138.3	8237.8	8465.7	8719.2	9043.3	9075.4	9447.7	9755.7
10°	7583.2	7576.7	7608.8	7750.0	7878.4	8151.2	8433.6	8802.6	8850.8	9322.5	9781.4
12.5°	7313.6	7320.0	7339.3	7486.9	7624.9	7894.4	8186.5	8587.6	8639.0	9178.1	9768.6
15°	7185.2	7172.4	7188.4	7323.2	7454.8	7692.3	7993.9	8407.9	8459.2	9049.7	9771.8
17.5°	7156.3	7146.7	7143.5	7239.8	7339.3	7560.7	7849.5	8269.9	8324.5	8966.3	9791.0
20°	7246.2	7233.4	7198.1	7239.8	7281.5	7467.6	7746.8	8170.4	8231.4	8911.7	9829.5
22.5°	7493.3	7470.8	7416.3	7364.9	7310.4	7422.7	7682.6	8096.6	8157.6	8876.4	9868.1
25°	7868.8	7849.5	7791.7	7676.2	7477.3	7458.0	7669.8	8064.5	8125.5	8850.8	9884.1
27.5°	8385.4	8356.6	8298.8	8131.9	7807.8	7589.6	7717.9	8061.3	8119.1	8821.9	9868.1
30°	8998.4	8979.1	8947.0	8744.9	8311.6	7868.8	7827.0	8087.0	8131.9	8805.8	9836.0
32.5°	9620.9	9601.7	9627.4	9531.1	8998.4	8330.9	8064.5	8157.6	8189.7	8802.6	9807.1
35°	10169.7	10192.2	10378.3	10394.3	9871.3	8956.7	8440.0	8321.3	8327.7	8866.8	9819.9
37.5°	10744.1	10830.8	11074.7	11283.3	10846.8	9784.6	8998.4	8629.3	8622.9	9030.5	9900.1
40°	11504.7	11543.2	11854.5	12246.0	11973.2	10920.6	9791.0	9133.2	9088.2	9364.2	10115.2
42.5°	12246.0	12339.1	12836.5	13285.8	13195.9	12201.1	10789.1	9887.3	9807.1	9954.7	10558.0
45°	13189.5	13279.3	13837.7	14415.4	14579.0	13648.4	12066.3	10959.2	10878.9	10843.6	11369.9
47.5°	14133.0	14226.0	14726.7	15561.0	16135.5	15458.3	13728.6	12374.4	12242.8	12104.8	12595.8
50°	14768.4	14877.5	15355.6	16356.9	17704.7	17717.6	15699.0	14229.2	14062.4	13844.2	14322.3
52.5°	14745.9	14816.5	15272.2	16427.5	18834.3	20313.7	18336.9	16591.2	16456.4	15981.4	16398.6
55°	13587.4	13693.3	14152.2	15596.3	18956.3	22775.1	22213.5	19376.7	19136.0	18285.6	18744.5
57.5°	11260.8	11350.7	11812.8	13593.8	17874.8	24036.3	27136.3	22926.0	22595.4	20795.1	21324.6
60°	8501.0	8391.9	8610.1	10169.7	15288.3	24068.4	31481.5	27739.7	27187.7	23477.9	23920.8
62.5°	6379.7	6270.6	6318.8	6758.4	10365.5	22123.7	33958.9	34324.8	33413.4	26507.3	26420.7
65°	5041.5	4980.6	5118.5	5420.2	6042.8	16847.9	33978.2	41445.8	40871.4	30018.1	28984.8
67.5°	4107.7	4069.2	4210.4	4768.8	4900.3	9052.9	30467.4	44770.5	44995.1	33862.7	31362.7
70°	3308.6	3250.8	3472.3	4207.2	4557.0	5478.0	21825.2	43076.0	43438.7	36154.0	30692.0
72.5°	2284.9	2288.1	2400.4	3408.1	4399.7	4730.2	12345.5	35868.4	36654.6	34077.7	26982.3
75°	1540.4	1553.2	1585.3	2249.6	4053.1	4589.0	6578.7	27155.6	27710.8	28166.5	22303.4
77.5°	930.6	937.1	1010.9	1360.7	2795.1	4284.2	4457.5	19684.8	20121.2	18568.0	13824.9
80°	539.1	561.6	629.0	911.4	1887.0	3218.7	3449.8	12069.5	12563.7	8253.9	4393.3
82.5°	237.5	253.5	343.4	529.5	1100.7	2737.4	2692.5	4768.8	4698.2	2300.9	1524.3
85°	41.7	51.3	73.8	166.9	404.3	1444.1	2089.1	2105.2	1980.0	872.9	632.2
87.5°	0.0	0.0	0.0	0.0	0.0	9.6	314.5	564.8	561.6	247.1	218.2
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°	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4
2.5°	9768.6	9681.9	9758.9	9768.6	9752.5	9739.7	9643.4	9560.0	9550.3	9460.5	9460.5
5°	9803.9	9723.6	9762.1	9688.3	9572.8	9454.1	9248.7	9107.5	9043.3	8927.8	8927.8
7.5°	9852.0	9768.6	9723.6	9540.7	9271.2	9011.2	8680.7	8404.7	8292.4	8128.7	8122.3
10°	9896.9	9791.0	9637.0	9280.8	8850.8	8436.8	7955.4	7563.9	7297.5	7101.8	7101.8
12.5°	9893.7	9755.7	9450.9	8924.6	8330.9	7730.8	7089.0	6498.5	6145.5	5840.6	5821.3
15°	9887.3	9698.0	9213.4	8510.6	7724.4	6893.2	6020.3	5250.1	4727.0	4428.6	4402.9
17.5°	9880.9	9624.2	8947.0	8038.9	6986.3	5853.4	4701.4	3867.0	3430.6	3247.6	3254.0
20°	9880.9	9540.7	8661.4	7496.5	6135.8	4608.3	3449.8	2843.3	2734.2	2743.8	2753.4
22.5°	9852.0	9438.0	8343.7	6906.0	5189.2	3388.8	2544.8	2339.4	2397.2	2487.1	2499.9
25°	9784.6	9267.9	7974.7	6251.4	4062.7	2467.8	2076.3	2037.8	2143.7	2256.0	2288.1
27.5°	9678.7	9072.2	7560.7	5484.4	2990.9	1983.2	1826.0	1822.8	1906.2	1989.7	2018.5
30°	9566.4	8854.0	7124.3	4630.8	2166.2	1726.5	1665.5	1665.5	1707.3	1758.6	1752.2
32.5°	9434.8	8632.5	6655.7	3741.8	1765.0	1582.1	1562.8	1553.2	1559.6	1578.9	1578.9
35°	9322.5	8436.8	6174.4	2801.6	1582.1	1501.9	1482.6	1460.2	1450.5	1437.7	1444.1
37.5°	9280.8	8282.7	5676.9	2111.6	1492.2	1444.1	1412.0	1379.9	1357.5	1351.0	1347.8
40°	9348.2	8218.6	5179.5	1739.3	1428.1	1383.1	1347.8	1306.1	1286.9	1286.9	1286.9
42.5°	9611.3	8266.7	4672.5	1572.5	1383.1	1331.8	1280.4	1241.9	1235.5	1241.9	1245.1
45°	10092.7	8452.8	4146.2	1489.0	1344.6	1280.4	1219.5	1190.6	1190.6	1197.0	1197.0
47.5°	10952.7	8940.6	3626.3	1437.7	1306.1	1238.7	1174.5	1145.7	1142.4	1148.9	1148.9
50°	12441.8	9819.9	3157.8	1402.4	1277.2	1206.6	1142.4	1103.9	1094.3	1091.1	1091.1
52.5°	14319.1	11344.2	2859.3	1376.7	1241.9	1171.3	1107.1	1055.8	1036.5	1026.9	1026.9
55°	16588.0	13375.6	2859.3	1357.5	1197.0	1129.6	1055.8	1004.5	975.6	962.7	962.7
57.5°	19158.5	15740.7	3353.5	1341.4	1161.7	1081.5	1001.2	949.9	917.8	898.6	898.6
60°	21773.9	18240.6	4576.2	1318.9	1129.6	1020.5	940.3	892.1	850.4	828.0	824.7
62.5°	24485.6	20994.1	6187.2	1331.8	1107.1	962.7	876.1	821.5	786.2	763.8	760.6
65°	26969.5	23615.9	7596.0	1431.3	1110.4	911.4	802.3	754.1	725.3	696.4	693.2
67.5°	29077.9	25063.2	6607.6	1633.4	1177.7	850.4	728.5	680.3	654.7	635.4	632.2
70°	27601.7	22855.4	3748.3	1758.6	1270.8	786.2	645.0	612.9	587.3	574.4	571.2
72.5°	23603.1	19351.0	2506.3	1553.2	1158.5	702.8	568.0	542.3	523.1	507.0	503.8
75°	19119.9	15346.0	1915.8	1274.0	901.8	571.2	487.8	468.5	449.3	433.2	430.0
77.5°	11312.2	8866.8	1412.0	1007.7	635.4	446.1	404.3	388.3	369.0	356.2	353.0
80°	3610.3	3080.8	895.3	693.2	420.4	343.4	311.3	298.4	279.2	263.1	259.9
82.5°	1376.7	1190.6	475.0	353.0	279.2	234.3	208.6	195.8	182.9	166.9	163.7
85°	609.7	571.2	263.1	189.3	150.8	115.5	102.7	96.3	80.2	67.4	64.2
87.5°	215.0	215.0	112.3	54.6	32.1	16.0	9.6	3.2	0.0	0.0	0.0
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)