

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: P643701

Luminaire Tested: GWS-SA6F-740-U-SL3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643701  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGF-740-U-SL3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

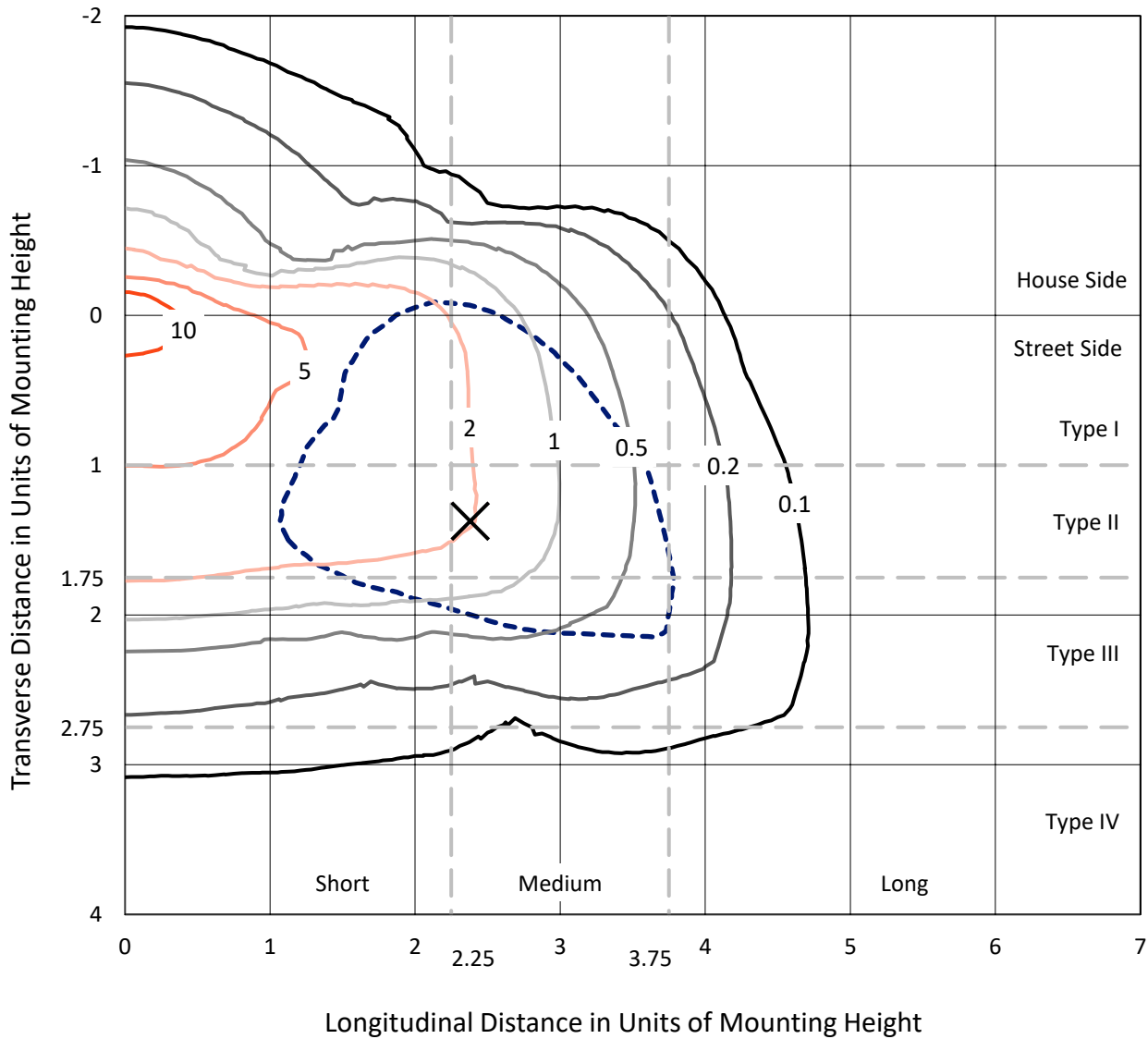
Lumens per Lamp: N/A  
Luminaire Lumens: 48765.7 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): 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

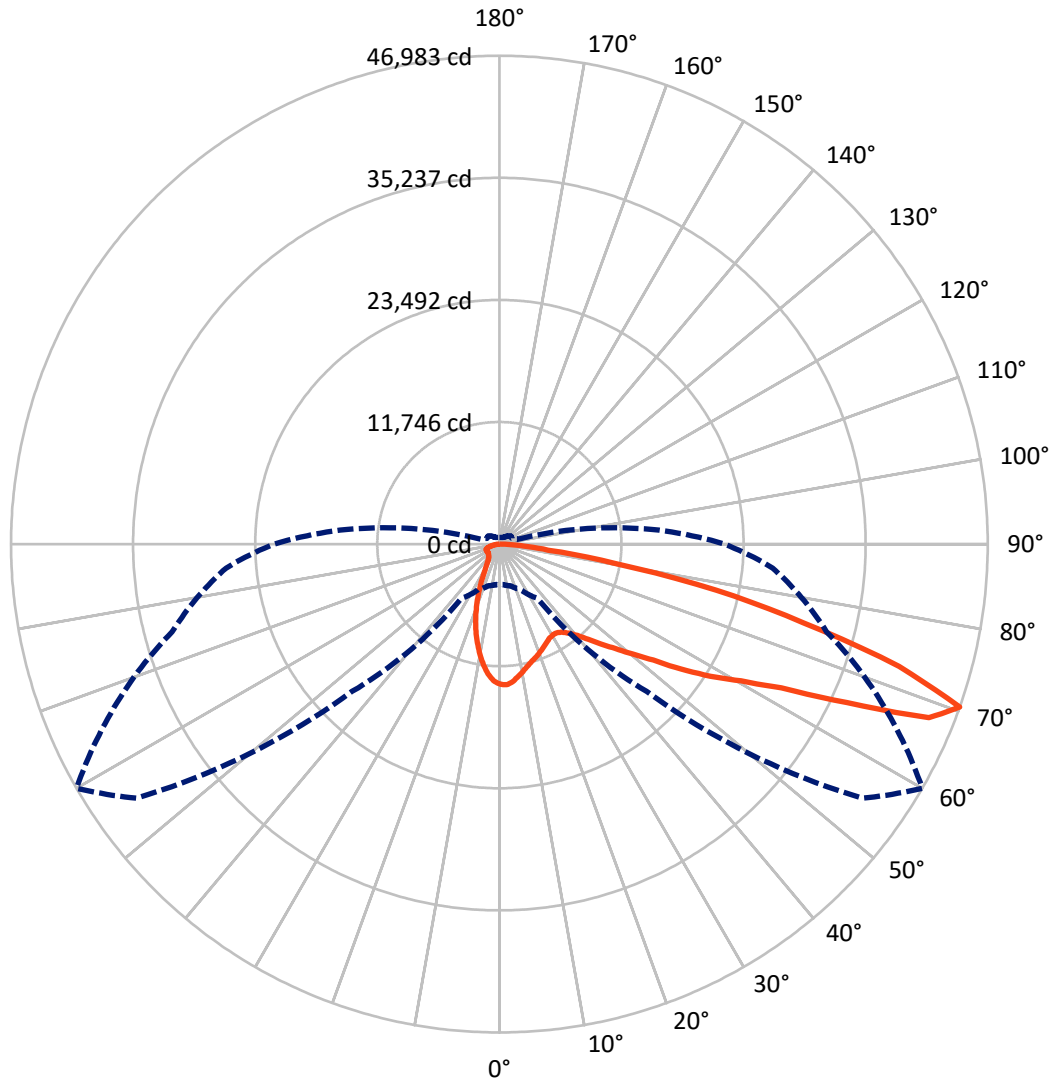
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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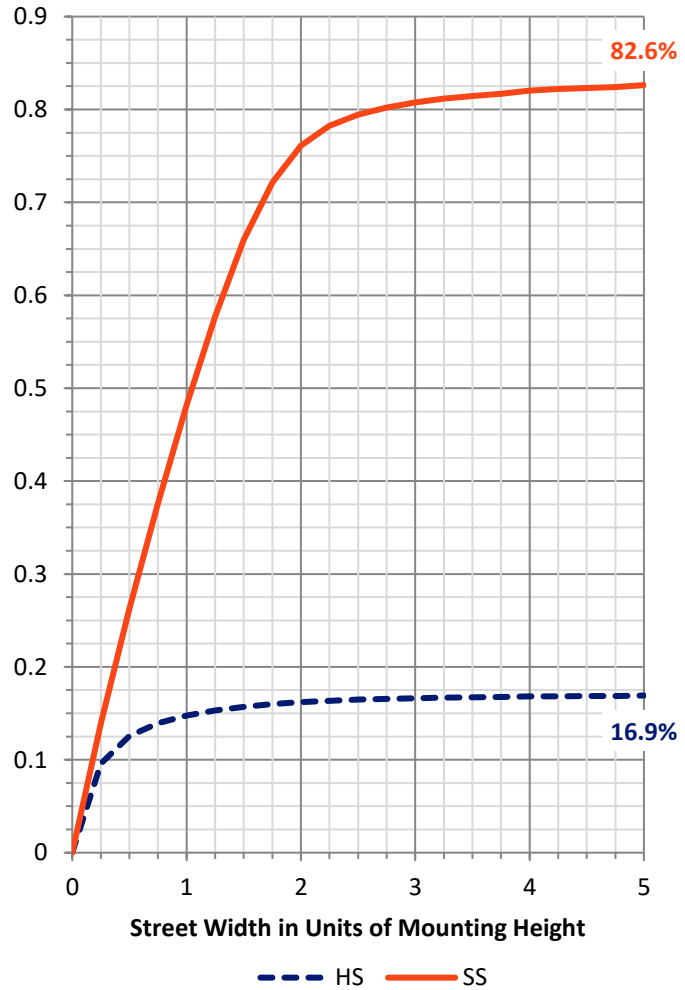
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8340.1	0.0	8340.1
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	40425.6	0.0	40425.6
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	48765.7	0.0	48765.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1163.1	2.4
10°-20°	2605.8	5.3
20°-30°	3337.2	6.8
30°-40°	4385.8	9.0
40°-50°	6363.1	13.0
50°-60°	9928.0	20.4
60°-70°	12997.7	26.7
70°-80°	7187.3	14.7
80°-90°	797.6	1.6
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°	48765.7	100.0
0°-180°	48765.7	100.0

**Coefficient of Utilization**



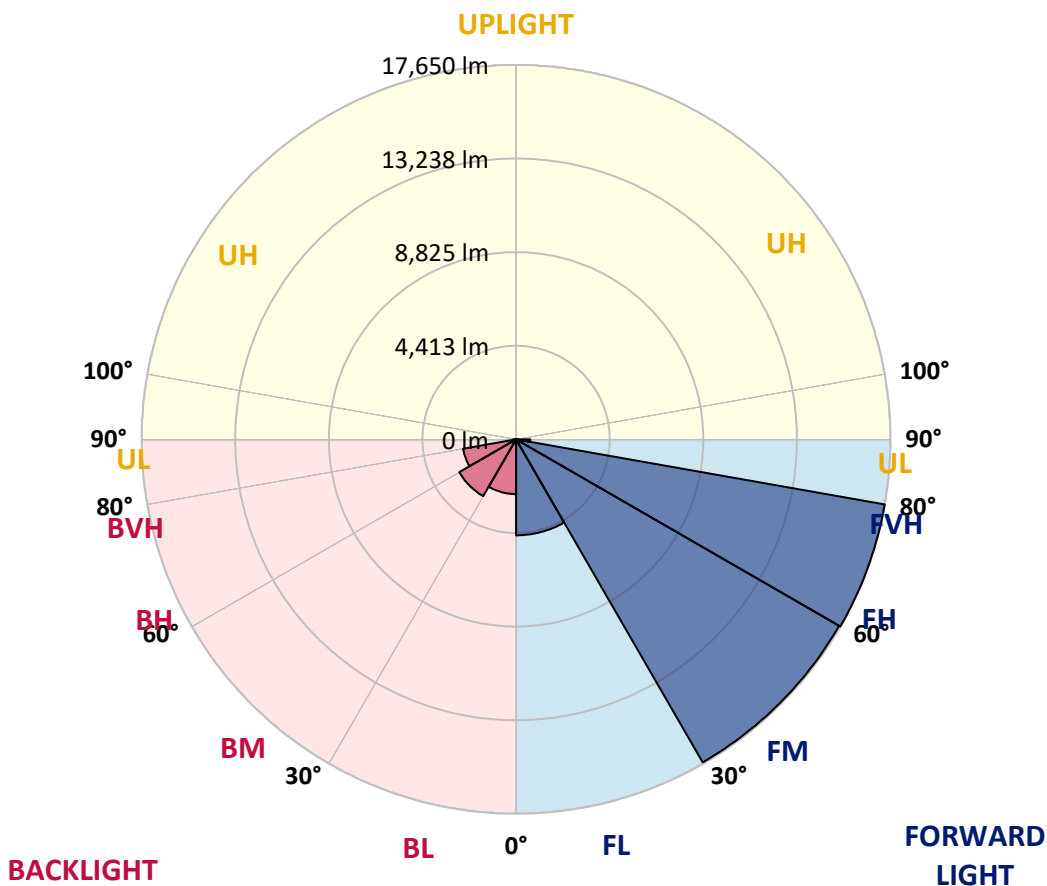
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4525.8	9.3			
FM (30°-60°)	17584.7	36.1			
FH (60°-80°)	17650.5	36.2			G5
FVH (80°-90°)	664.6	1.4			G4/750
BL (0°-30°)	2580.3	5.3	B4/5000		
BM (30°-60°)	3092.2	6.3	B3/5000		
BH (60°-80°)	2534.5	5.2	B4/5000		G4/5000
BVH (80°-90°)	133.0	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	13494.1	13494.1	13494.1	13494.1	13494.1	13494.1	13494.1	13494.1	13494.1	13494.1	13494.1
2.5°	13305.0	13319.3	13358.5	13415.6	13472.7	13501.2	13572.6	13551.2	13536.9	13508.4	13472.7
5°	12716.3	12744.8	12780.5	12891.1	13016.0	13115.9	13276.5	13294.3	13301.4	13315.7	13258.6
7.5°	11967.0	11974.1	12059.8	12206.1	12370.2	12541.4	12809.0	12884.0	12948.2	13019.6	12973.2
10°	11139.2	11157.1	11221.3	11431.8	11713.7	11967.0	12327.4	12452.3	12587.8	12744.8	12680.6
12.5°	10461.3	10464.9	10568.4	10793.1	11100.0	11442.5	11892.1	12041.9	12220.3	12466.5	12409.4
15°	9922.6	9922.6	10018.9	10211.6	10564.8	10968.0	11503.2	11695.8	11938.5	12270.3	12170.4
17.5°	9494.4	9498.0	9558.6	9762.0	10076.0	10522.0	11157.1	11417.5	11685.1	12124.0	11974.1
20°	9269.6	9251.8	9262.5	9387.4	9655.0	10086.7	10811.0	11114.3	11474.6	12024.1	11795.7
22.5°	9258.9	9226.8	9180.4	9191.1	9348.1	9704.9	10439.9	10807.4	11260.5	11942.0	11613.8
25°	9440.9	9405.2	9323.1	9230.4	9216.1	9430.2	10090.2	10507.7	11039.3	11906.3	11438.9
27.5°	9747.7	9722.7	9615.7	9476.6	9330.3	9323.1	9826.2	10261.5	10878.8	11942.0	11314.1
30°	10154.5	10111.7	10043.9	9865.5	9644.2	9415.9	9722.7	10129.5	10771.7	12056.2	11260.5
32.5°	10614.7	10589.8	10525.5	10347.1	10111.7	9747.7	9804.8	10158.0	10771.7	12256.0	11271.2
35°	11103.6	11100.0	11100.0	10982.2	10721.8	10268.6	10129.5	10400.7	10935.9	12577.1	11385.4
37.5°	11578.1	11574.5	11688.7	11731.5	11435.4	10946.6	10682.5	10885.9	11296.2	13051.7	11667.3
40°	11963.4	11977.7	12227.5	12441.5	12277.4	11824.3	11453.2	11556.7	11881.4	13726.0	12159.7
42.5°	12352.3	12391.6	12766.2	13144.4	13208.7	12816.2	12441.5	12502.2	12719.8	14618.0	12894.7
45°	12776.9	12794.8	13319.3	13847.3	14157.7	13925.8	13619.0	13701.0	13751.0	15720.5	13990.0
47.5°	13187.3	13233.6	13911.6	14635.9	15224.6	15203.2	15031.9	15006.9	15017.6	17062.1	15285.2
50°	13747.4	13815.2	14610.9	15485.0	16348.5	16744.5	16794.5	16605.4	16526.9	18553.5	16898.0
52.5°	14810.7	14810.7	15524.3	16384.2	17543.8	18525.0	18860.3	18549.9	18300.2	20130.5	18610.6
55°	16141.5	16198.6	16765.9	17461.7	18931.7	20398.1	21532.8	21190.2	20483.8	21846.7	20405.3
57.5°	16733.8	16805.2	17704.3	18785.4	20747.8	22528.2	24101.7	23980.4	22949.2	23630.7	22267.8
60°	15663.4	15813.3	17051.4	18863.9	22392.6	25964.2	27073.8	26720.6	25247.0	25503.9	24287.2
62.5°	13065.9	13230.1	14603.7	17133.4	22164.3	29678.5	31758.6	30456.3	28115.7	27869.5	26977.5
65°	7796.0	7788.9	9440.9	12794.8	19349.2	30709.6	39172.9	36743.1	32547.1	31116.4	29746.2
67.5°	4955.9	4945.2	5291.3	6779.2	12876.8	28183.5	43939.7	44571.2	38566.3	33503.3	29974.6
70°	3910.5	3906.9	4156.7	4834.6	6368.8	20055.6	42612.4	46983.2	42202.1	32593.5	26392.3
72.5°	2850.8	2858.0	3243.3	4049.7	4913.1	10068.8	34505.9	40200.4	38816.1	28772.2	21425.7
75°	2048.0	2058.7	2290.6	3100.6	4531.3	5505.4	22945.7	30227.9	29532.2	23063.4	14739.3
77.5°	1302.3	1316.6	1520.0	2172.9	3660.7	4445.7	13911.6	21340.1	19648.9	12994.6	5241.4
80°	795.7	842.0	1013.3	1619.9	2925.7	3336.1	6954.0	11242.7	9840.5	3564.4	1762.6
82.5°	410.3	446.0	610.1	1002.6	2015.9	2929.3	3935.5	4724.0	3047.1	1491.4	938.4
85°	128.4	149.9	214.1	406.7	959.8	1816.1	2604.6	2347.7	1398.6	702.9	435.3
87.5°	32.1	32.1	35.7	35.7	39.2	82.1	503.1	531.6	371.1	221.2	178.4
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°	13494.1	13494.1	13494.1	13494.1	13494.1	13494.1	13494.1	13494.1	13494.1	13494.1	13494.1
2.5°	13401.3	13315.7	13280.0	13276.5	13187.3	13058.8	12973.2	12912.5	12876.8	12869.7	12869.7
5°	13162.3	13051.7	12905.4	12794.8	12555.7	12313.1	12109.7	11995.5	11863.5	11845.7	11842.1
7.5°	12844.7	12684.2	12405.9	12095.5	11678.0	11274.8	10932.3	10700.4	10468.5	10425.6	10411.4
10°	12502.2	12284.6	11810.0	11264.1	10639.7	10036.7	9512.2	9101.9	8830.8	8638.1	8602.4
12.5°	12163.2	11874.2	11178.5	10365.0	9508.7	8684.5	7895.9	7225.2	6739.9	6458.0	6408.1
15°	11845.7	11442.5	10489.9	9451.6	8338.4	7210.9	6094.1	5223.5	4542.0	4299.4	4242.3
17.5°	11556.7	11053.6	9822.6	8506.1	7118.1	5644.5	4374.3	3600.1	3200.5	3079.2	3050.6
20°	11267.7	10654.0	9144.7	7510.6	5822.9	4171.0	3196.9	2833.0	2683.1	2636.7	2622.5
22.5°	10957.3	10215.1	8406.2	6529.4	4513.5	3122.0	2615.3	2454.8	2408.4	2412.0	2408.4
25°	10646.9	9769.1	7631.9	5462.6	3361.0	2533.3	2283.5	2222.9	2233.6	2265.7	2272.8
27.5°	10390.0	9373.1	6871.9	4292.3	2626.0	2180.0	2062.3	2058.7	2098.0	2140.8	2147.9
30°	10204.4	9019.9	6122.7	3300.4	2162.2	1937.4	1891.0	1912.4	1958.8	1990.9	2001.6
32.5°	10072.4	8716.6	5323.4	2593.9	1894.6	1766.2	1744.7	1766.2	1794.7	1826.8	1833.9
35°	10026.0	8495.4	4538.5	2115.8	1712.6	1641.3	1627.0	1637.7	1652.0	1669.8	1677.0
37.5°	10129.5	8384.8	3717.8	1841.1	1602.0	1559.2	1537.8	1530.7	1534.2	1541.4	1544.9
40°	10436.3	8434.7	3047.1	1680.5	1530.7	1491.4	1455.7	1441.5	1437.9	1445.0	1441.5
42.5°	10964.4	8645.2	2561.8	1587.8	1473.6	1416.5	1377.2	1363.0	1363.0	1380.8	1380.8
45°	11738.7	9059.1	2212.1	1520.0	1423.6	1352.3	1309.4	1302.3	1316.6	1345.1	1348.7
47.5°	12873.3	9665.7	2001.6	1470.0	1377.2	1295.2	1252.4	1248.8	1277.3	1323.7	1327.3
50°	14218.4	10539.8	1887.5	1434.3	1345.1	1248.8	1206.0	1209.5	1241.7	1291.6	1302.3
52.5°	15838.3	11731.5	1894.6	1420.1	1327.3	1220.2	1177.4	1170.3	1202.4	1252.4	1263.1
55°	17511.6	13180.1	2033.7	1423.6	1302.3	1206.0	1148.9	1123.9	1152.5	1188.1	1191.7
57.5°	19352.7	14814.3	2379.8	1416.5	1270.2	1191.7	1123.9	1066.8	1084.7	1106.1	1116.8
60°	21429.3	16737.4	3125.6	1430.8	1255.9	1159.6	1074.0	999.0	995.5	1009.7	1013.3
62.5°	24205.2	19352.7	3964.0	1455.7	1288.0	1120.3	999.0	920.5	906.3	913.4	917.0
65°	26328.1	20601.5	3700.0	1434.3	1355.8	1091.8	927.7	845.6	817.1	809.9	809.9
67.5°	25464.7	18949.5	2576.1	1377.2	1387.9	1095.4	870.6	767.1	731.4	713.6	710.0
70°	21668.3	15392.3	1791.1	1320.2	1352.3	1088.2	809.9	702.9	656.5	631.5	628.0
72.5°	17119.2	11752.9	1448.6	1206.0	1227.4	981.2	720.7	631.5	592.3	560.2	560.2
75°	11017.9	7171.6	1209.5	1074.0	1002.6	763.5	624.4	563.7	524.5	492.4	492.4
77.5°	3707.1	2661.7	938.4	909.8	749.3	574.4	524.5	485.2	453.1	424.6	421.0
80°	1505.7	1263.1	688.6	688.6	524.5	438.9	410.3	392.5	371.1	335.4	335.4
82.5°	874.2	767.1	481.7	417.5	349.7	303.3	285.4	267.6	267.6	242.6	242.6
85°	421.0	424.6	289.0	256.9	199.8	174.8	167.7	157.0	153.4	139.2	135.6
87.5°	228.4	231.9	146.3	114.2	78.5	67.8	57.1	53.5	50.0	46.4	46.4
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)