

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: P638751

Luminaire Tested: GWS-SA4F-740-U-SL3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638751  
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-SA4F-740-U-SL3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

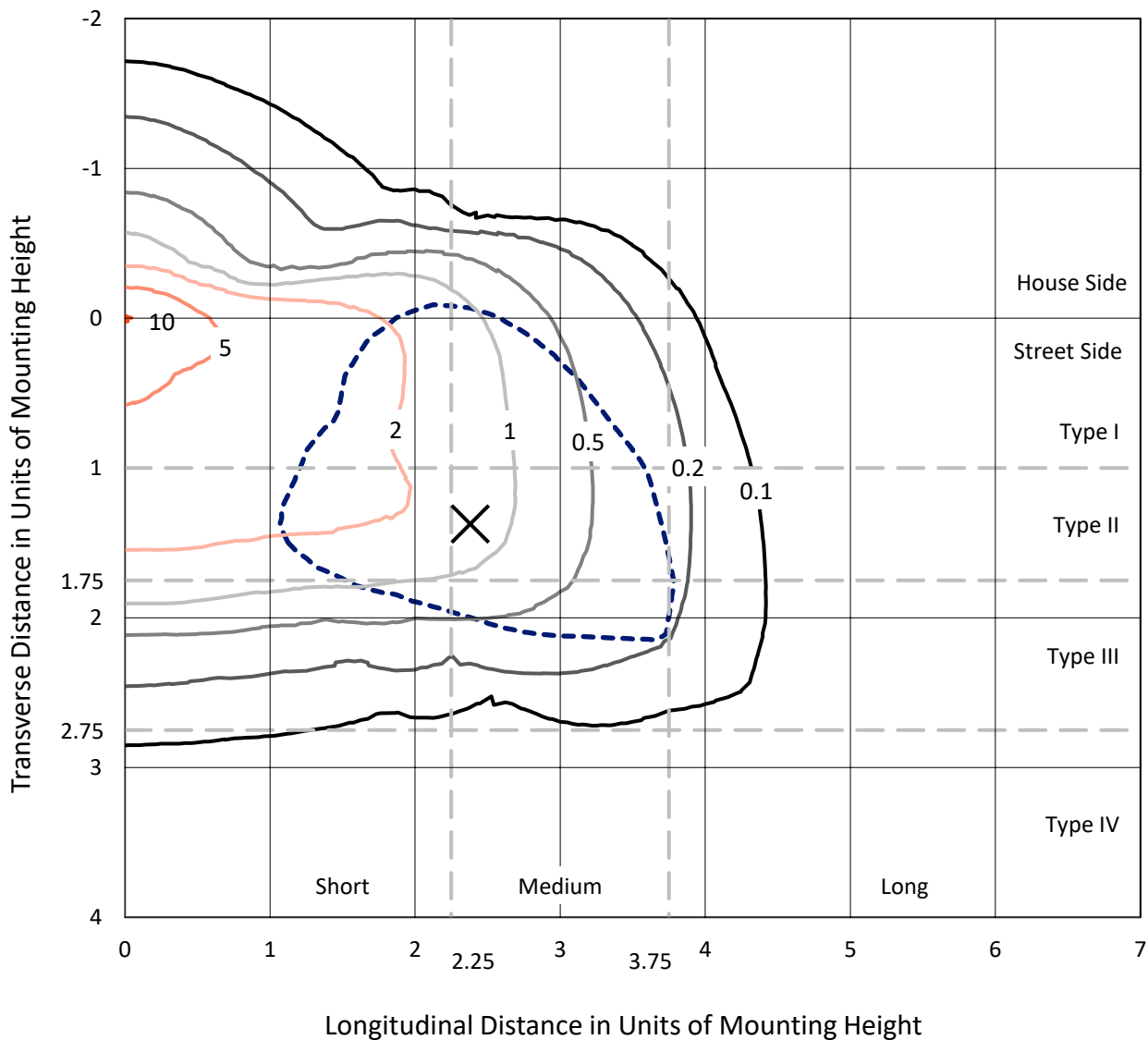
Lumens per Lamp: N/A  
Luminaire Lumens: 33337.9 lumens  
Efficiency: N/A  
Efficacy: 148.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): 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



REPORT NUMBER: P638751  
 CATALOG NUMBER: GWS-SA4F-740-U-SL3-W

### Iso-Footcandle Lines of Horizontal Illumination

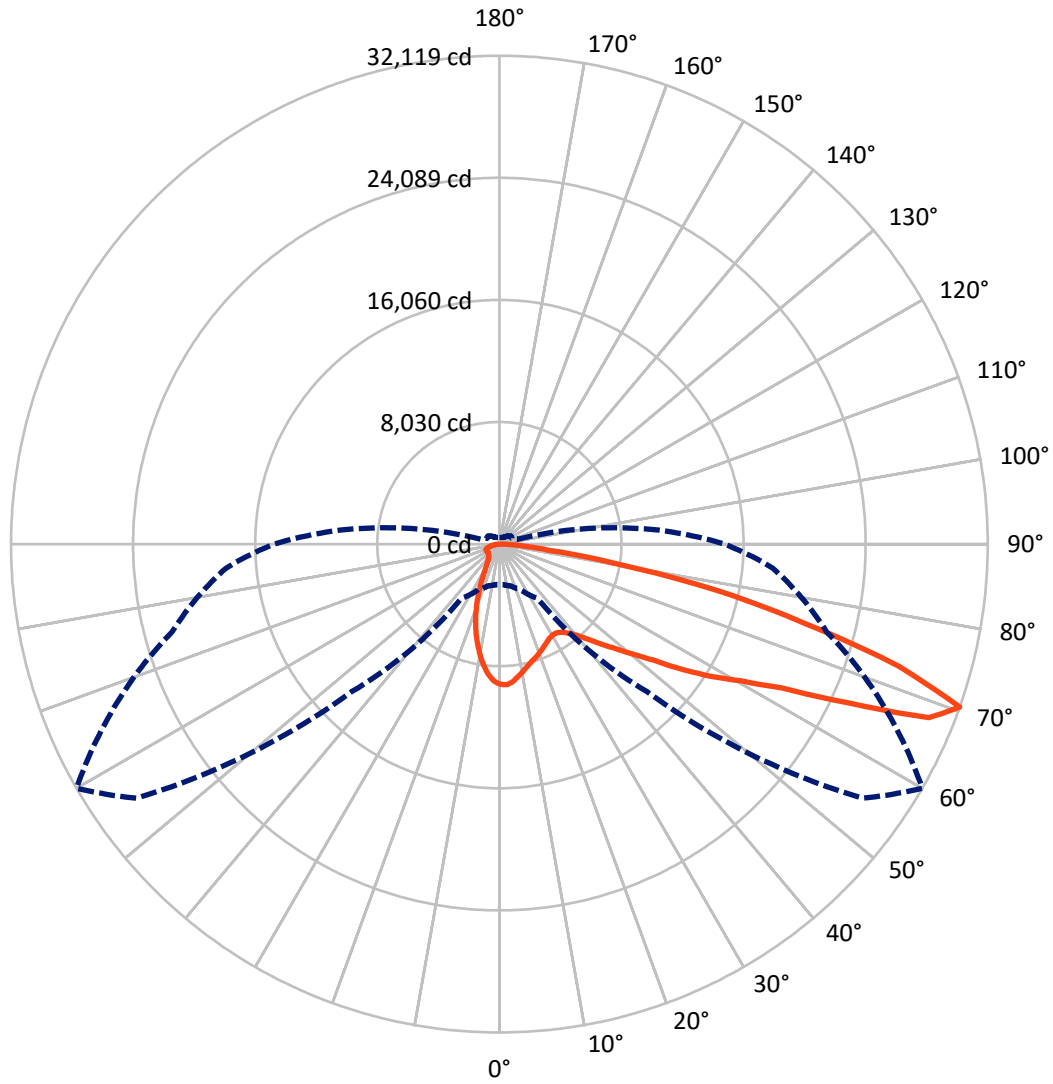
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 fc  
 Type III - Medium - N/A

REPORT NUMBER: P638751  
CATALOG NUMBER: GWS-SA4F-740-U-SL3-W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P638751

CATALOG NUMBER: GWS-SA4F-740-U-SL3-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5701.6	0.0	5701.6
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	27636.3	0.0	27636.3
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	33337.9	0.0	33337.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	795.2	2.4
10°-20°	1781.4	5.3
20°-30°	2281.4	6.8
30°-40°	2998.3	9.0
40°-50°	4350.1	13.0
50°-60°	6787.1	20.4
60°-70°	8885.7	26.7
70°-80°	4913.5	14.7
80°-90°	545.3	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°	33337.9	100.0
0°-180°	33337.9	100.0

**Coefficient of Utilization**



REPORT NUMBER: P638751

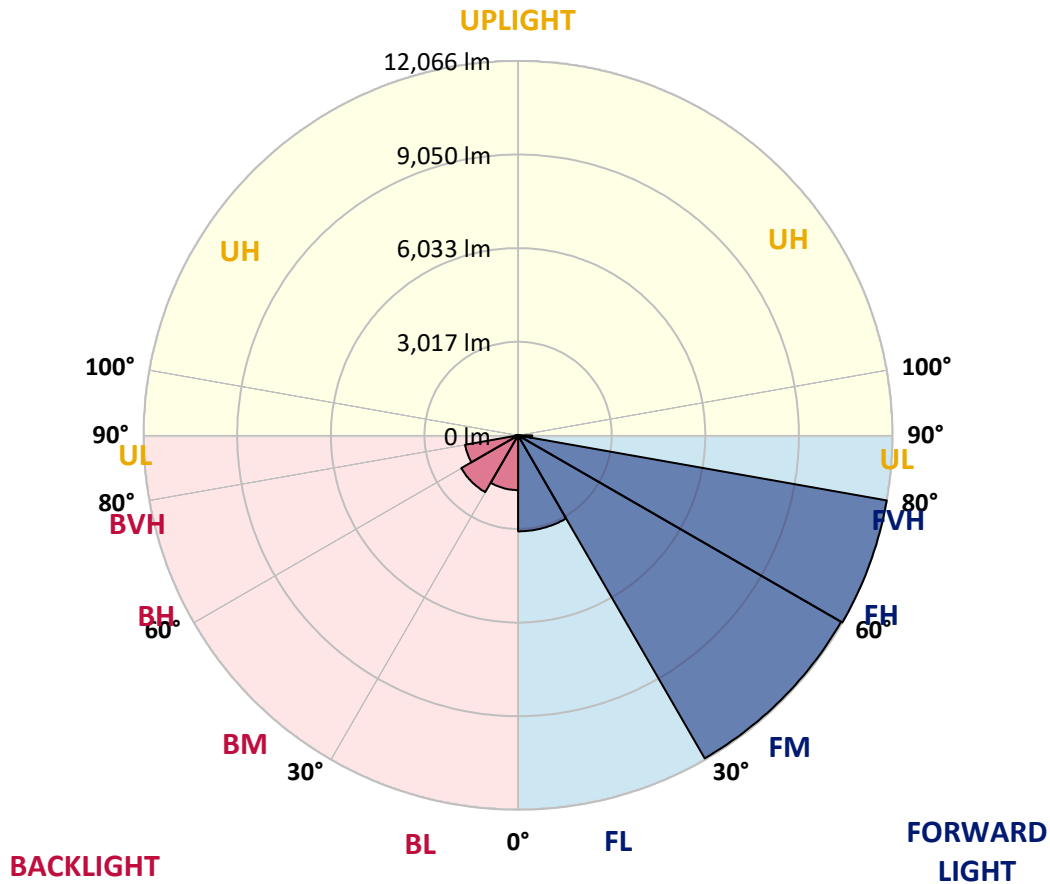
CATALOG NUMBER: GWS-SA4F-740-U-SL3-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3094.0	9.3			
FM (30°-60°)	12021.5	36.1			
FH (60°-80°)	12066.5	36.2			G5
FVH (80°-90°)	454.4	1.4			G3/500
BL (0°-30°)	1764.0	5.3	B3/2500		
BM (30°-60°)	2114.0	6.3	B2/2500		
BH (60°-80°)	1732.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	90.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium





REPORT NUMBER: P638751  
 CATALOG NUMBER: GWS-SA4F-740-U-SL3-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	9225.0	9225.0	9225.0	9225.0	9225.0	9225.0	9225.0	9225.0	9225.0	9225.0	9225.0
2.5°	9095.8	9105.5	9132.3	9171.4	9210.4	9229.9	9278.7	9264.1	9254.3	9234.8	9210.4
5°	8693.3	8712.8	8737.2	8812.8	8898.2	8966.5	9076.2	9088.4	9093.3	9103.1	9064.0
7.5°	8181.1	8185.9	8244.5	8344.5	8456.7	8573.8	8756.7	8807.9	8851.8	8900.6	8868.9
10°	7615.2	7627.4	7671.3	7815.2	8007.9	8181.1	8427.4	8512.8	8605.5	8712.8	8668.9
12.5°	7151.7	7154.2	7224.9	7378.6	7588.3	7822.5	8129.8	8232.3	8354.2	8522.5	8483.5
15°	6783.4	6783.4	6849.3	6981.0	7222.5	7498.1	7864.0	7995.7	8161.5	8388.4	8320.1
17.5°	6490.7	6493.1	6534.6	6673.6	6888.3	7193.2	7627.4	7805.4	7988.4	8288.4	8185.9
20°	6337.0	6324.8	6332.1	6417.5	6600.5	6895.6	7390.8	7598.1	7844.4	8220.1	8064.0
22.5°	6329.7	6307.8	6276.0	6283.4	6390.7	6634.6	7137.1	7388.3	7698.1	8164.0	7939.6
25°	6454.1	6429.7	6373.6	6310.2	6300.4	6446.8	6898.0	7183.4	7546.9	8139.6	7820.1
27.5°	6663.9	6646.8	6573.6	6478.5	6378.5	6373.6	6717.5	7015.1	7437.1	8164.0	7734.7
30°	6941.9	6912.7	6866.3	6744.4	6593.1	6437.0	6646.8	6924.9	7363.9	8242.0	7698.1
32.5°	7256.6	7239.5	7195.6	7073.7	6912.7	6663.9	6702.9	6944.4	7363.9	8378.6	7705.4
35°	7590.8	7588.3	7588.3	7507.8	7329.8	7020.0	6924.9	7110.2	7476.1	8598.2	7783.5
37.5°	7915.2	7912.7	7990.8	8020.1	7817.6	7483.4	7302.9	7442.0	7722.5	8922.6	7976.2
40°	8178.6	8188.4	8359.1	8505.5	8393.3	8083.5	7829.8	7900.5	8122.5	9383.6	8312.8
42.5°	8444.5	8471.3	8727.4	8986.0	9029.9	8761.6	8505.5	8546.9	8695.7	9993.4	8815.2
45°	8734.8	8746.9	9105.5	9466.5	9678.7	9520.2	9310.4	9366.5	9400.7	10747.1	9564.1
47.5°	9015.3	9047.0	9510.4	10005.6	10408.0	10393.4	10276.3	10259.2	10266.6	11664.2	10449.5
50°	9398.2	9444.6	9988.5	10586.1	11176.4	11447.1	11481.3	11352.0	11298.3	12683.8	11552.0
52.5°	10125.1	10125.1	10612.9	11200.8	11993.5	12664.3	12893.6	12681.4	12510.6	13761.9	12722.8
55°	11034.9	11073.9	11461.8	11937.4	12942.4	13944.9	14720.5	14486.4	14003.4	14935.2	13949.7
57.5°	11439.8	11488.6	12103.3	12842.4	14183.9	15401.1	16476.7	16393.8	15688.9	16154.8	15223.0
60°	10708.1	10810.5	11656.9	12896.0	15308.4	17750.0	18508.6	18267.1	17259.7	17435.4	16603.6
62.5°	8932.3	9044.5	9983.6	11713.0	15152.3	20289.2	21711.3	20821.0	19220.8	19052.5	18442.7
65°	5329.6	5324.8	6454.1	8746.9	13227.7	20994.1	26779.9	25118.8	22250.3	21272.2	20335.6
67.5°	3388.0	3380.7	3617.3	4634.5	8803.0	19267.2	30038.7	30470.4	26365.2	22904.0	20491.7
70°	2673.4	2670.9	2841.7	3305.1	4354.0	13710.7	29131.3	32119.3	28850.8	22282.0	18042.7
72.5°	1948.9	1953.8	2217.2	2768.5	3358.8	6883.4	23589.4	27482.4	26536.0	19669.7	14647.4
75°	1400.1	1407.4	1566.0	2119.7	3097.8	3763.7	15686.5	20664.8	20189.2	15766.9	10076.3
77.5°	890.3	900.1	1039.1	1485.5	2502.6	3039.2	9510.4	14588.8	13432.6	8883.5	3583.2
80°	543.9	575.6	692.7	1107.4	2000.1	2280.6	4754.0	7685.9	6727.3	2436.8	1205.0
82.5°	280.5	304.9	417.1	685.4	1378.1	2002.6	2690.4	3229.5	2083.1	1019.6	641.5
85°	87.8	102.4	146.4	278.1	656.1	1241.5	1780.6	1605.0	956.2	480.5	297.6
87.5°	22.0	22.0	24.4	24.4	26.8	56.1	343.9	363.4	253.7	151.2	122.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638751  
 CATALOG NUMBER: GWS-SA4F-740-U-SL3-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9225.0	9225.0	9225.0	9225.0	9225.0	9225.0	9225.0	9225.0	9225.0	9225.0	9225.0
2.5°	9161.6	9103.1	9078.7	9076.2	9015.3	8927.4	8868.9	8827.4	8803.0	8798.2	8798.2
5°	8998.2	8922.6	8822.6	8746.9	8583.5	8417.7	8278.6	8200.6	8110.3	8098.1	8095.7
7.5°	8781.1	8671.3	8481.1	8268.9	7983.5	7707.9	7473.7	7315.1	7156.6	7127.3	7117.6
10°	8546.9	8398.1	8073.7	7700.5	7273.7	6861.5	6502.9	6222.4	6037.0	5905.3	5880.9
12.5°	8315.2	8117.6	7642.0	7085.9	6500.4	5937.0	5397.9	4939.4	4607.6	4414.9	4380.8
15°	8098.1	7822.5	7171.2	6461.4	5700.4	4929.6	4166.1	3571.0	3105.1	2939.2	2900.2
17.5°	7900.5	7556.6	6715.1	5815.0	4866.2	3858.8	2990.5	2461.1	2188.0	2105.0	2085.5
20°	7703.0	7283.4	6251.7	5134.5	3980.8	2851.4	2185.5	1936.7	1834.3	1802.6	1792.8
22.5°	7490.8	6983.4	5746.7	4463.7	3085.6	2134.3	1787.9	1678.2	1646.5	1648.9	1646.5
25°	7278.6	6678.5	5217.4	3734.4	2297.7	1731.8	1561.1	1519.6	1526.9	1548.9	1553.8
27.5°	7102.9	6407.8	4697.9	2934.3	1795.2	1490.3	1409.9	1407.4	1434.2	1463.5	1468.4
30°	6976.1	6166.3	4185.7	2256.3	1478.2	1324.5	1292.8	1307.4	1339.1	1361.1	1368.4
32.5°	6885.8	5958.9	3639.3	1773.3	1295.2	1207.4	1192.8	1207.4	1226.9	1248.9	1253.7
35°	6854.1	5807.7	3102.7	1446.4	1170.8	1122.0	1112.3	1119.6	1129.3	1141.5	1146.4
37.5°	6924.9	5732.1	2541.6	1258.6	1095.2	1065.9	1051.3	1046.4	1048.9	1053.7	1056.2
40°	7134.6	5766.3	2083.1	1148.9	1046.4	1019.6	995.2	985.4	983.0	987.9	985.4
42.5°	7495.6	5910.2	1751.3	1085.4	1007.4	968.4	941.5	931.8	931.8	944.0	944.0
45°	8024.9	6193.1	1512.3	1039.1	973.2	924.5	895.2	890.3	900.1	919.6	922.0
47.5°	8800.6	6607.8	1368.4	1004.9	941.5	885.4	856.2	853.7	873.2	904.9	907.4
50°	9720.2	7205.4	1290.3	980.6	919.6	853.7	824.4	826.9	848.8	883.0	890.3
52.5°	10827.6	8020.1	1295.2	970.8	907.4	834.2	804.9	800.1	822.0	856.2	863.5
55°	11971.6	9010.4	1390.3	973.2	890.3	824.4	785.4	768.3	787.9	812.3	814.7
57.5°	13230.2	10127.5	1626.9	968.4	868.4	814.7	768.3	729.3	741.5	756.1	763.5
60°	14649.8	11442.3	2136.7	978.1	858.6	792.7	734.2	683.0	680.5	690.3	692.7
62.5°	16547.5	13230.2	2709.9	995.2	880.5	765.9	683.0	629.3	619.6	624.4	626.9
65°	17998.8	14083.9	2529.4	980.6	926.9	746.4	634.2	578.1	558.6	553.7	553.7
67.5°	17408.5	12954.6	1761.1	941.5	948.8	748.8	595.2	524.4	500.0	487.8	485.4
70°	14813.2	10522.7	1224.5	902.5	924.5	744.0	553.7	480.5	448.8	431.7	429.3
72.5°	11703.2	8034.7	990.3	824.4	839.1	670.8	492.7	431.7	404.9	383.0	383.0
75°	7532.2	4902.8	826.9	734.2	685.4	522.0	426.9	385.4	358.6	336.6	336.6
77.5°	2534.3	1819.6	641.5	622.0	512.2	392.7	358.6	331.7	309.8	290.3	287.8
80°	1029.3	863.5	470.8	470.8	358.6	300.0	280.5	268.3	253.7	229.3	229.3
82.5°	597.6	524.4	329.3	285.4	239.0	207.3	195.1	182.9	182.9	165.9	165.9
85°	287.8	290.3	197.6	175.6	136.6	119.5	114.6	107.3	104.9	95.1	92.7
87.5°	156.1	158.5	100.0	78.1	53.7	46.3	39.0	36.6	34.1	31.7	31.7
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)