

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: P636375

Luminaire Tested: GWS-SA3F-760-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636375  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3F-760-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (48) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

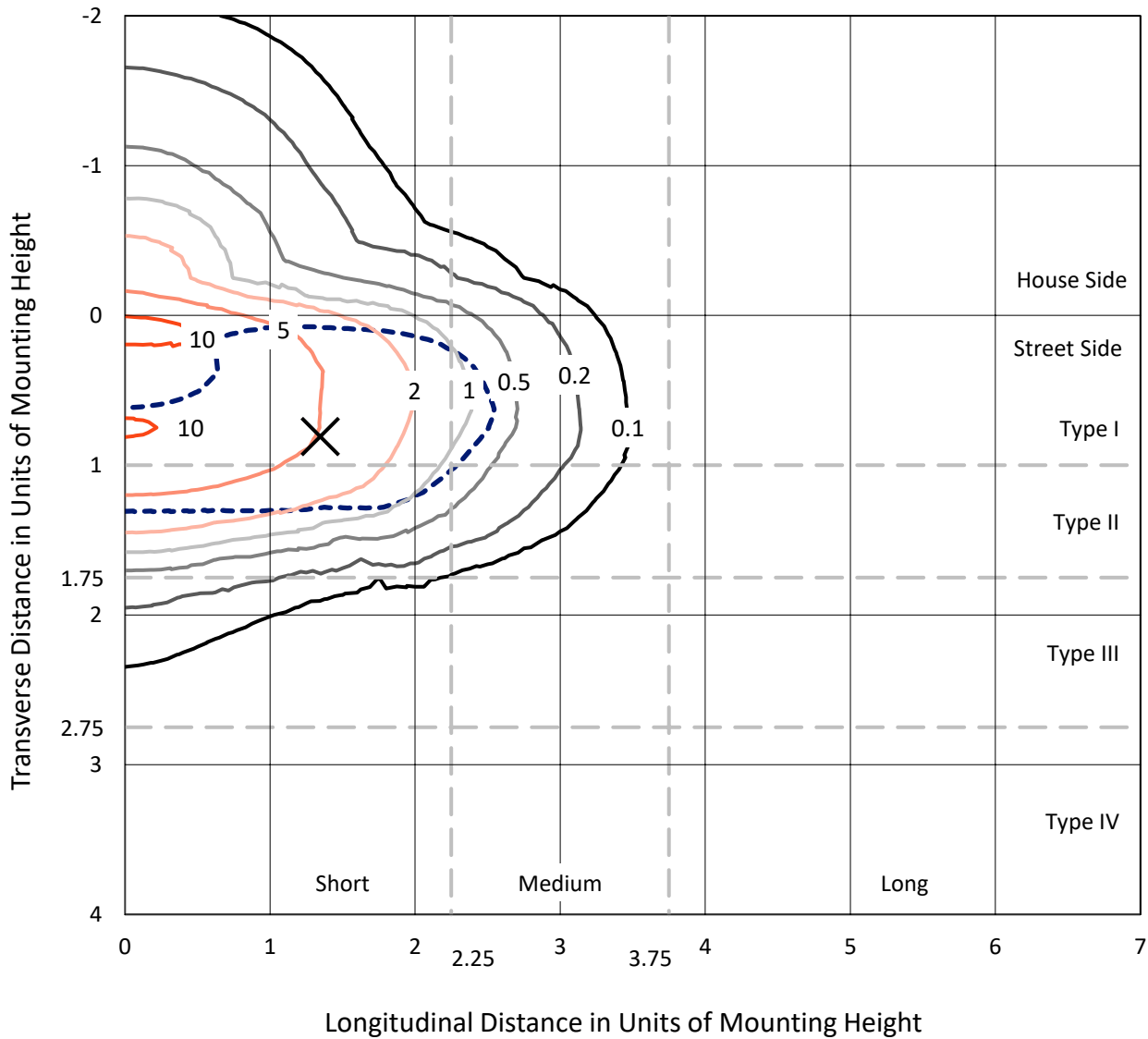
Lumens per Lamp: N/A  
Luminaire Lumens: 25119.9 lumens  
Efficiency: N/A  
Efficacy: 137.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

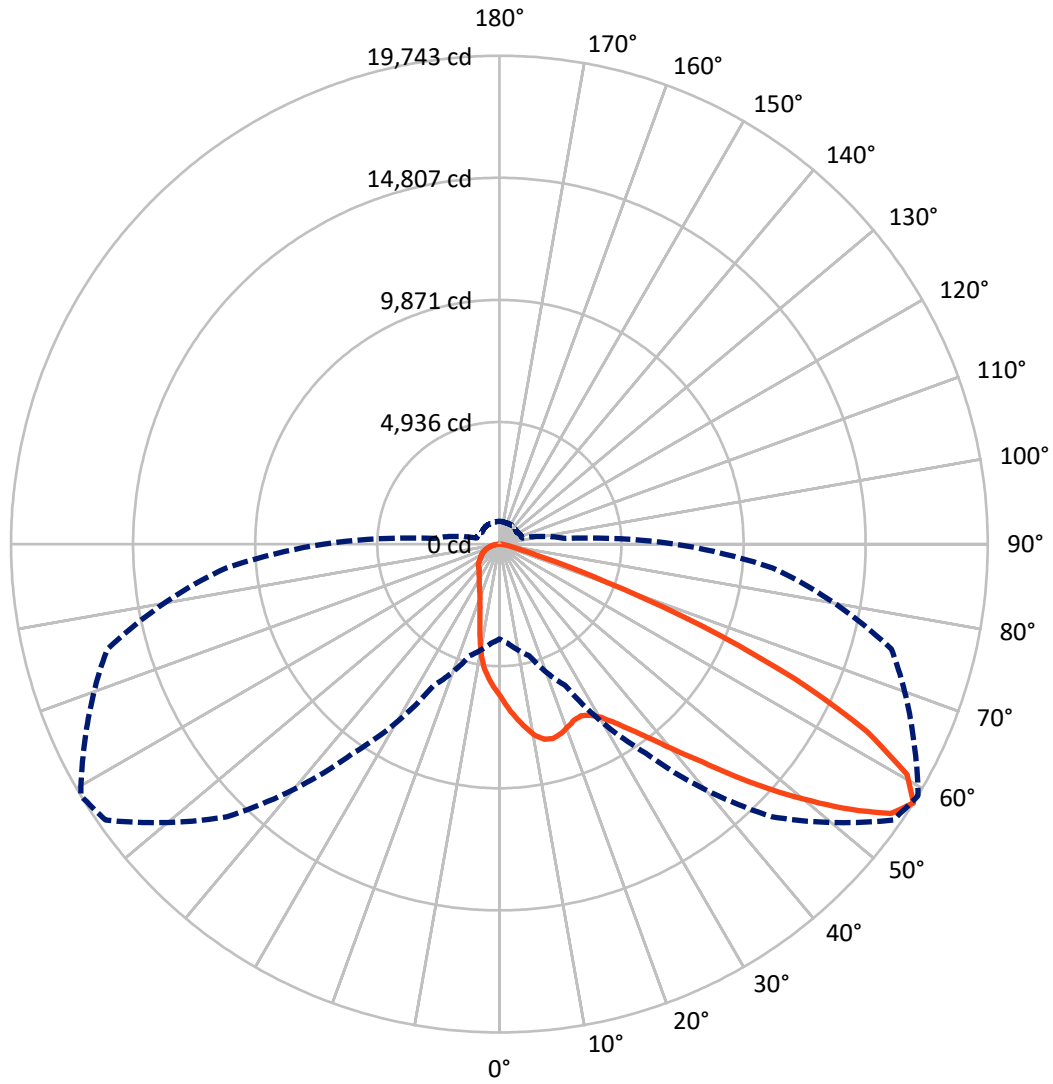
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3898.5	0.0	3898.5
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	21221.4	0.0	21221.4
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	25119.9	0.0	25119.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	572.6	2.3
10°-20°	1450.9	5.8
20°-30°	2351.9	9.4
30°-40°	3783.3	15.1
40°-50°	5875.1	23.4
50°-60°	6328.3	25.2
60°-70°	3672.7	14.6
70°-80°	958.8	3.8
80°-90°	126.3	0.5
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°	25119.9	100.0
0°-180°	25119.9	100.0

**Coefficient of Utilization**



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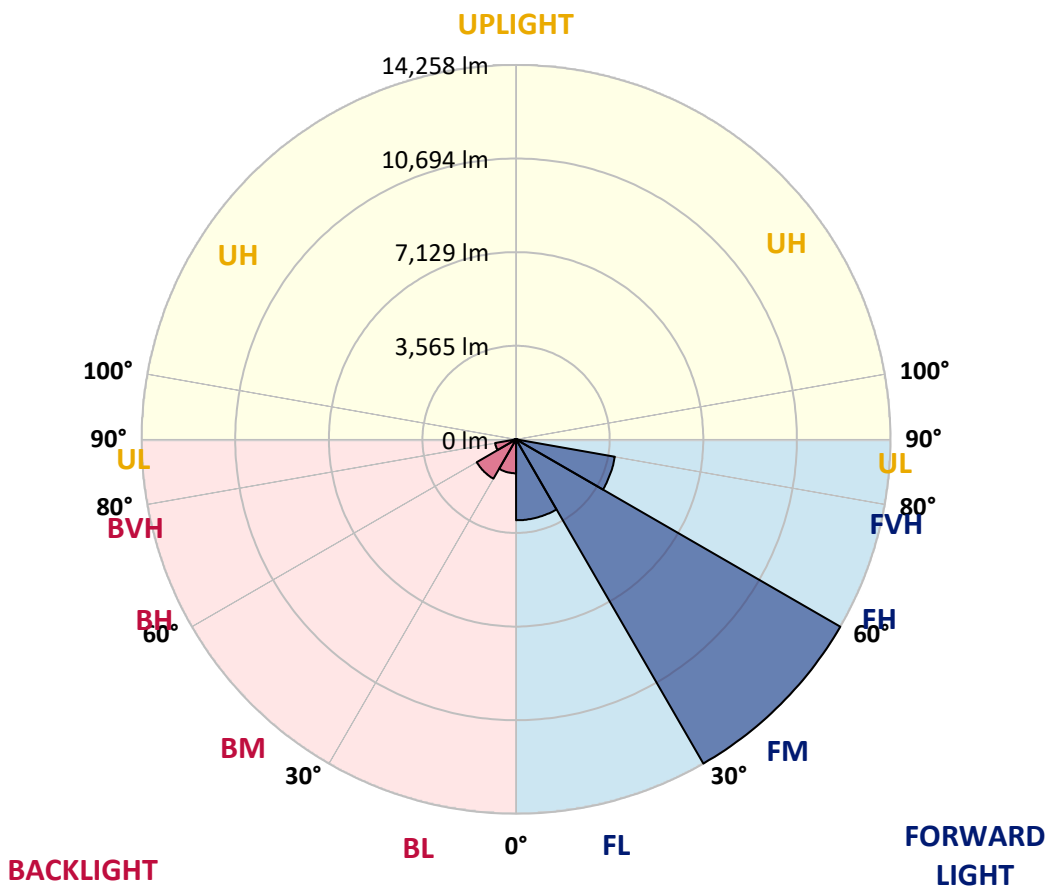
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3082.0	12.3			
FM (30°-60°)	14258.3	56.8			
FH (60°-80°)	3820.6	15.2			G2/5000
FVH (80°-90°)	60.5	0.2			G1/100
BL (0°-30°)	1293.4	5.1	B3/2500		
BM (30°-60°)	1728.4	6.9	B2/2500		
BH (60°-80°)	810.9	3.2	B2/1000		G2/1000
BVH (80°-90°)	65.8	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6166.4	6166.4	6166.4	6166.4	6166.4	6166.4	6166.4	6166.4	6166.4	6166.4	6166.4
2.5°	6994.0	6935.7	6976.4	6903.9	6873.8	6794.2	6691.6	6622.7	6516.6	6378.6	6258.4
5°	7689.0	7648.4	7657.2	7579.4	7510.4	7377.8	7167.4	7050.6	6870.3	6592.6	6334.4
7.5°	7667.8	7715.6	7742.1	7809.3	7828.7	7816.4	7627.1	7464.4	7266.4	6849.0	6460.0
10°	6873.8	6964.0	7045.3	7275.2	7554.6	7908.3	7952.5	7855.3	7655.4	7176.2	6610.3
12.5°	6009.0	6078.0	6150.5	6426.4	6854.3	7561.7	8040.9	8101.1	8021.5	7499.8	6780.1
15°	5584.6	5616.5	5685.4	5867.6	6208.9	6994.0	7887.1	8150.6	8293.8	7842.9	6971.1
17.5°	5566.9	5581.1	5614.7	5712.0	5948.9	6555.5	7609.5	8051.6	8507.8	8205.4	7193.9
20°	5933.0	5895.9	5874.6	5872.9	5989.6	6408.7	7340.7	7892.4	8608.6	8576.8	7432.6
22.5°	6440.5	6452.9	6406.9	6293.8	6279.6	6513.0	7206.3	7731.5	8638.7	8905.7	7653.7
25°	7160.3	7222.2	7086.0	6870.3	6764.2	6815.4	7289.4	7682.0	8635.1	9179.8	7791.6
27.5°	8000.3	8048.0	7910.1	7627.1	7407.9	7284.1	7536.9	7828.7	8665.2	9416.8	7874.7
30°	8957.0	8972.9	8783.7	8486.6	8166.5	7901.2	7949.0	8131.1	8819.0	9728.0	7972.0
32.5°	10125.9	10193.1	9906.6	9436.2	8988.8	8649.3	8502.5	8619.2	9151.5	10095.8	8122.3
35°	11609.6	11632.6	11268.3	10594.5	9961.4	9491.0	9183.3	9245.2	9657.3	10610.4	8348.6
37.5°	13008.4	13031.4	12644.1	12018.1	11112.7	10469.0	10023.3	9995.0	10304.5	11337.3	8718.2
40°	13896.1	13961.6	13788.3	13395.7	12530.9	11662.6	11057.8	10960.6	11153.3	12226.8	9232.8
42.5°	14373.6	14401.9	14398.4	14449.6	13935.0	13072.1	12225.0	12030.5	12159.6	13187.0	9752.8
45°	14377.1	14447.9	14637.1	15130.5	15153.5	14615.9	13699.8	13395.7	13277.2	14154.3	10295.7
47.5°	13733.4	13809.5	14329.4	15300.3	16016.5	16138.5	15466.5	14856.4	14357.7	14987.2	10741.3
50°	11784.7	11975.6	12966.0	14683.1	16186.2	17358.7	17151.8	16324.2	15317.9	15630.9	11020.7
52.5°	10092.3	10085.2	10695.3	12939.4	15477.1	17896.3	18782.2	17834.4	16267.6	16039.4	11091.4
55°	7390.2	7430.8	8055.1	9896.0	13584.9	17376.4	19678.8	19224.3	17356.9	16257.0	11063.2
57.5°	3832.1	4033.7	4673.9	6315.0	10322.2	15586.7	19440.1	19742.5	18463.9	16410.8	11100.3
60°	1936.4	1897.5	2127.4	3015.1	5980.8	12173.7	17968.8	18932.6	18663.8	16531.1	11123.3
62.5°	1292.7	1282.1	1218.4	1397.0	2443.9	7209.8	15317.9	16669.0	17275.6	16248.1	10829.7
65°	1119.4	1098.2	981.5	974.4	1186.6	2990.4	11227.6	13103.9	14278.1	14990.8	10127.7
67.5°	1008.0	976.2	857.7	799.3	852.4	1313.9	6327.4	8789.0	10543.2	12677.7	8589.1
70°	900.1	884.2	765.7	680.8	675.5	801.1	2330.8	4536.0	6451.1	8649.3	6279.6
72.5°	806.4	778.1	677.3	596.0	555.3	567.7	1011.5	1747.2	3338.8	5395.4	3756.1
75°	698.5	677.3	588.9	507.5	458.0	415.6	617.2	808.2	1522.6	2564.2	1773.7
77.5°	539.4	525.2	465.1	403.2	374.9	309.5	374.9	509.3	703.8	1080.5	923.1
80°	313.0	321.8	346.6	314.8	275.9	221.1	244.0	293.6	422.6	585.3	523.4
82.5°	157.4	168.0	224.6	182.1	164.5	129.1	145.0	173.3	221.1	323.6	205.1
85°	12.4	12.4	40.7	46.0	56.6	46.0	58.4	70.7	100.8	129.1	69.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.3	8.8	15.9	30.1	19.5
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°	6166.4	6166.4	6166.4	6166.4	6166.4	6166.4	6166.4	6166.4	6166.4	6166.4	6166.4
2.5°	6177.0	6086.9	5979.0	5890.6	5754.4	5681.9	5589.9	5476.8	5430.8	5409.6	5397.2
5°	6189.4	6030.3	5800.4	5588.2	5353.0	5167.3	4960.4	4744.6	4620.8	4590.8	4569.6
7.5°	6235.4	6012.6	5646.5	5296.4	4859.6	4454.6	4060.3	3669.4	3469.6	3393.6	3386.5
10°	6299.1	6005.5	5490.9	4909.1	4171.7	3531.5	3070.0	2764.0	2634.9	2592.5	2578.3
12.5°	6378.6	6000.2	5285.8	4371.5	3377.7	2772.9	2509.4	2459.9	2477.5	2474.0	2474.0
15°	6479.4	6007.3	5038.2	3763.2	2732.2	2406.8	2412.1	2470.5	2525.3	2534.1	2534.1
17.5°	6589.1	6000.2	4679.2	3153.1	2344.9	2320.1	2401.5	2482.8	2532.4	2539.4	2539.4
20°	6707.6	5966.6	4226.5	2578.3	2175.1	2265.3	2353.7	2417.4	2447.5	2454.5	2454.5
22.5°	6778.3	5871.1	3734.9	2182.2	2067.3	2178.7	2237.0	2302.5	2306.0	2249.4	2247.6
25°	6767.7	5692.5	3174.3	1927.6	1952.3	2049.6	2123.9	2077.9	2021.3	1989.5	1984.2
27.5°	6700.5	5423.7	2603.1	1734.8	1816.2	1925.8	1902.8	1863.9	1849.8	1814.4	1810.8
30°	6615.6	5093.0	2090.3	1584.5	1674.7	1775.5	1740.1	1736.6	1722.4	1683.5	1683.5
32.5°	6534.3	4751.7	1703.0	1473.1	1584.5	1591.6	1641.1	1644.6	1637.5	1570.3	1563.3
35°	6511.3	4410.4	1441.3	1384.7	1496.1	1492.5	1563.3	1561.5	1439.5	1345.8	1344.0
37.5°	6580.2	4063.8	1285.6	1312.2	1374.1	1420.0	1476.6	1374.1	1333.4	1276.8	1273.3
40°	6727.0	3743.7	1206.1	1269.7	1296.2	1363.4	1275.0	1282.1	1271.5	1229.0	1223.7
42.5°	6921.5	3471.4	1161.8	1255.6	1252.0	1269.7	1172.5	1200.7	1216.7	1184.8	1179.5
45°	7109.0	3234.4	1138.9	1202.5	1220.2	1117.6	1098.2	1124.7	1149.5	1137.1	1131.8
47.5°	7246.9	3029.3	1126.5	1130.0	1179.5	1066.3	1034.5	1046.9	1077.0	1082.3	1080.5
50°	7289.4	2854.2	1112.3	1069.9	1059.3	1015.1	990.3	986.8	1022.1	1046.9	1050.4
52.5°	7208.0	2698.6	1075.2	1016.8	965.5	972.6	963.8	946.1	981.5	1015.1	1018.6
55°	7087.8	2610.2	1016.8	965.5	905.4	933.7	937.3	921.3	944.3	967.3	967.3
57.5°	7096.6	2661.5	960.2	917.8	852.4	889.5	909.0	901.9	901.9	919.6	921.3
60°	7155.0	2735.7	923.1	857.7	799.3	838.2	882.4	875.4	859.4	882.4	882.4
62.5°	6987.0	2636.7	898.4	799.3	742.7	788.7	841.8	838.2	820.5	857.7	861.2
65°	6491.8	2371.4	870.1	726.8	686.1	739.2	785.2	797.6	781.6	831.2	840.0
67.5°	5441.4	1994.8	815.2	657.8	629.6	679.1	723.3	741.0	728.6	786.9	794.0
70°	4056.7	1614.6	728.6	581.8	560.6	604.8	645.5	652.5	654.3	723.3	730.4
72.5°	2587.2	1255.6	613.6	496.9	481.0	514.6	544.7	573.0	585.3	650.8	649.0
75°	1443.0	933.7	493.4	420.9	392.6	419.1	454.5	488.1	523.4	618.9	629.6
77.5°	831.2	656.1	390.8	337.8	304.2	332.5	362.5	410.3	516.4	599.5	588.9
80°	468.6	426.2	295.3	247.6	226.4	247.6	270.6	360.8	406.7	442.1	447.4
82.5°	219.3	238.7	201.6	152.1	152.1	166.2	187.5	279.4	307.7	251.1	219.3
85°	79.6	107.9	99.0	77.8	69.0	67.2	116.7	159.2	99.0	88.4	76.0
87.5°	21.2	30.1	28.3	19.5	10.6	8.8	0.0	0.0	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)