

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: P638366

Luminaire Tested: GWS-SA4E-760-U-SL3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638366  
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-SA4E-760-U-SL3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

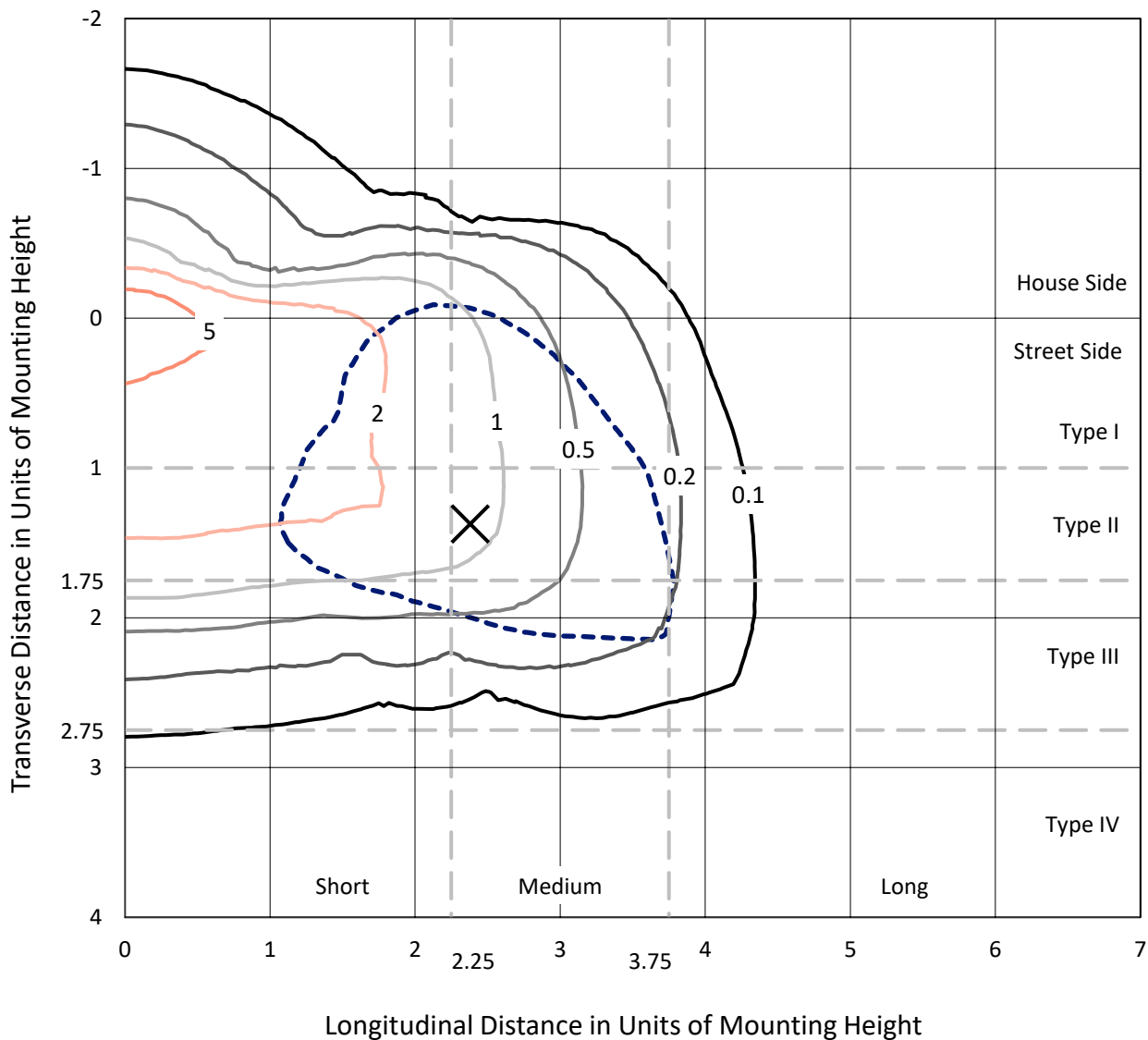
Lumens per Lamp: N/A  
Luminaire Lumens: 30251.8 lumens  
Efficiency: N/A  
Efficacy: 149.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): 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

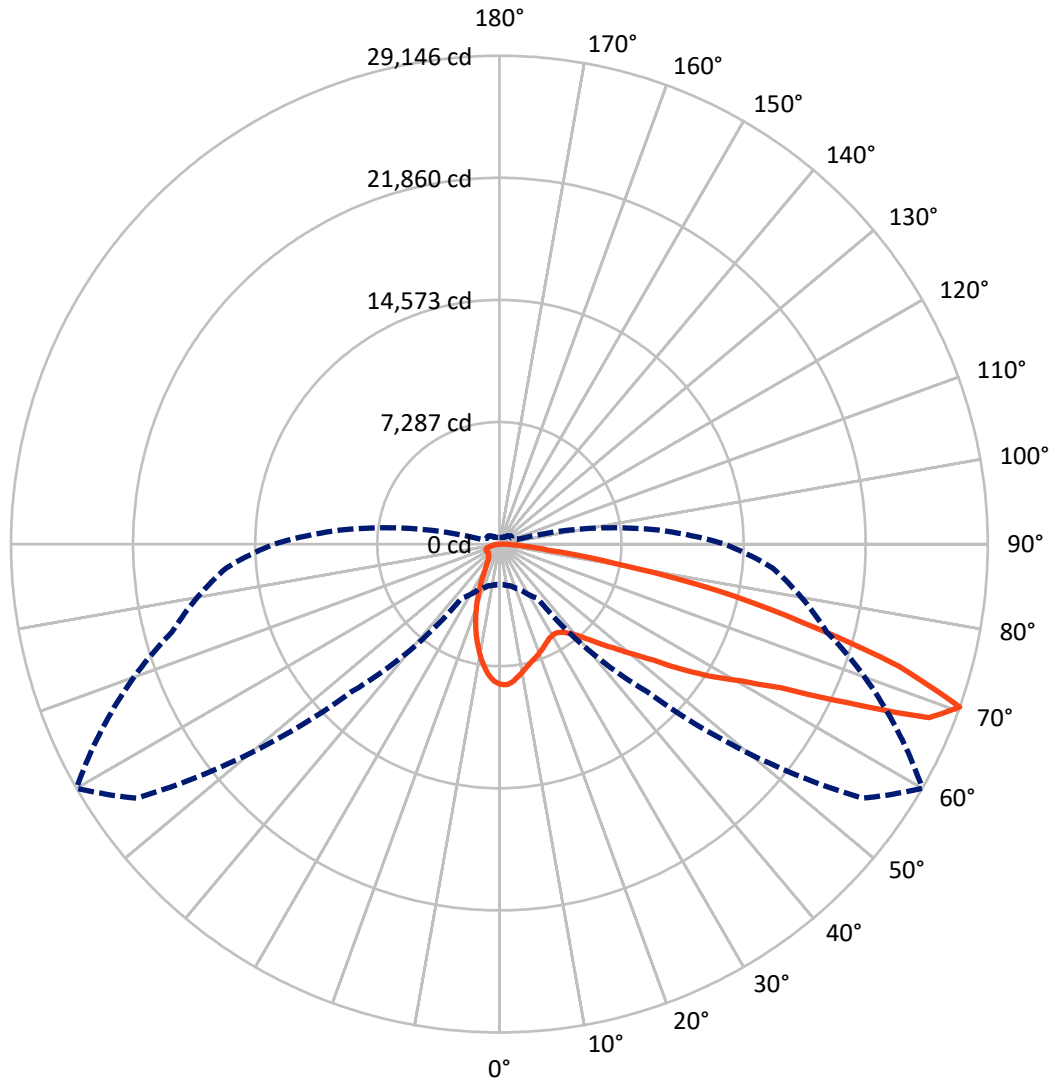
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 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	5173.8	0.0	5173.8
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	25078.0	0.0	25078.0
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	30251.8	0.0	30251.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	721.5	2.4
10°-20°	1616.5	5.3
20°-30°	2070.2	6.8
30°-40°	2720.8	9.0
40°-50°	3947.4	13.0
50°-60°	6158.8	20.4
60°-70°	8063.1	26.7
70°-80°	4458.6	14.7
80°-90°	494.8	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°	30251.8	100.0
0°-180°	30251.8	100.0

**Coefficient of Utilization**



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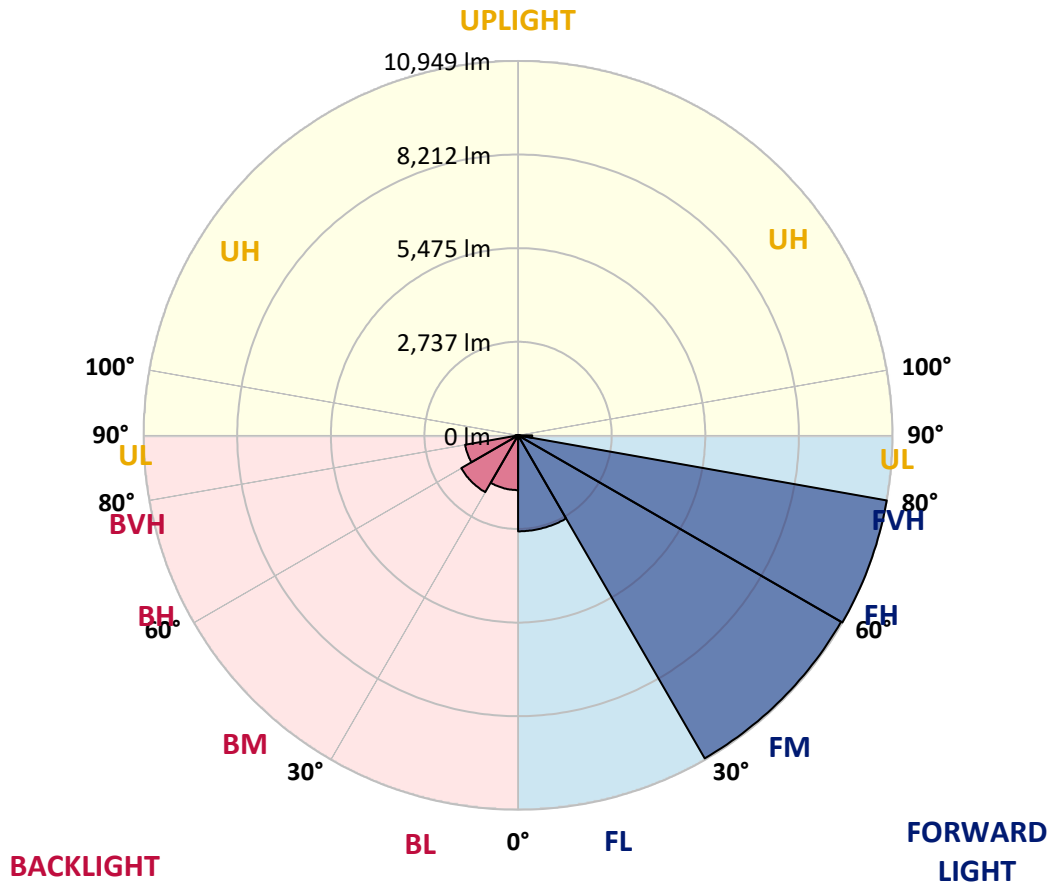
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2807.6	9.3			
FM (30°-60°)	10908.7	36.1			
FH (60°-80°)	10949.5	36.2			G4/12000
FVH (80°-90°)	412.3	1.4			G3/500
BL (0°-30°)	1600.7	5.3	B3/2500		
BM (30°-60°)	1918.3	6.3	B2/2500		
BH (60°-80°)	1572.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	82.5	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-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	8371.1	8371.1	8371.1	8371.1	8371.1	8371.1	8371.1	8371.1	8371.1	8371.1	8371.1
2.5°	8253.8	8262.6	8287.0	8322.4	8357.8	8375.5	8419.8	8406.5	8397.6	8379.9	8357.8
5°	7888.5	7906.3	7928.4	7997.0	8074.5	8136.4	8236.0	8247.1	8251.5	8260.4	8225.0
7.5°	7423.7	7428.2	7481.3	7572.0	7673.8	7780.1	7946.1	7992.6	8032.4	8076.7	8047.9
10°	6910.2	6921.3	6961.1	7091.7	7266.6	7423.7	7647.3	7724.8	7808.9	7906.3	7866.4
12.5°	6489.7	6491.9	6556.1	6695.5	6885.9	7098.4	7377.2	7470.2	7580.9	7733.6	7698.2
15°	6155.5	6155.5	6215.2	6334.7	6553.9	6804.0	7136.0	7255.5	7406.0	7611.9	7549.9
17.5°	5889.8	5892.1	5929.7	6055.9	6250.6	6527.3	6921.3	7082.9	7248.9	7521.1	7428.2
20°	5750.4	5739.3	5746.0	5823.4	5989.5	6257.3	6706.6	6894.7	7118.3	7459.1	7317.5
22.5°	5743.8	5723.8	5695.1	5701.7	5799.1	6020.4	6476.4	6704.4	6985.5	7408.2	7204.6
25°	5856.6	5834.5	5783.6	5726.1	5717.2	5850.0	6259.5	6518.5	6848.2	7386.1	7096.1
27.5°	6047.0	6031.5	5965.1	5878.8	5788.0	5783.6	6095.7	6365.7	6748.6	7408.2	7018.7
30°	6299.3	6272.8	6230.7	6120.0	5982.8	5841.2	6031.5	6283.8	6682.2	7479.1	6985.5
32.5°	6584.9	6569.4	6529.5	6418.8	6272.8	6047.0	6082.4	6301.5	6682.2	7603.0	6992.1
35°	6888.1	6885.9	6885.9	6812.8	6651.3	6370.2	6283.8	6452.1	6784.1	7802.2	7062.9
37.5°	7182.5	7180.3	7251.1	7277.6	7093.9	6790.7	6626.9	6753.1	7007.6	8096.6	7237.8
40°	7421.5	7430.4	7585.3	7718.1	7616.3	7335.2	7105.0	7169.2	7370.6	8514.9	7543.3
42.5°	7662.8	7687.1	7919.5	8154.2	8194.0	7950.5	7718.1	7755.7	7890.8	9068.3	7999.2
45°	7926.2	7937.2	8262.6	8590.2	8782.8	8638.9	8448.5	8499.4	8530.4	9752.2	8678.7
47.5°	8180.7	8209.5	8630.0	9079.4	9444.6	9431.3	9325.0	9309.5	9316.2	10584.5	9482.2
50°	8528.2	8570.3	9063.9	9606.1	10141.8	10387.5	10418.5	10301.1	10252.5	11509.7	10482.6
52.5°	9187.8	9187.8	9630.5	10163.9	10883.3	11492.0	11700.0	11507.4	11352.5	12488.0	11545.1
55°	10013.4	10048.8	10400.7	10832.4	11744.3	12654.0	13357.8	13145.4	12707.1	13552.6	12658.4
57.5°	10380.8	10425.1	10982.9	11653.5	12870.9	13975.4	14951.5	14876.2	14236.6	14659.3	13813.8
60°	9716.8	9809.8	10577.8	11702.2	13891.3	16106.9	16795.3	16576.1	15662.0	15821.4	15066.6
62.5°	8105.5	8207.3	9059.4	10628.7	13749.6	18411.0	19701.4	18893.6	17441.6	17288.8	16735.5
65°	4836.3	4831.8	5856.6	7937.2	12003.2	19050.7	24300.9	22793.6	20190.6	19303.0	18453.1
67.5°	3074.4	3067.8	3282.5	4205.5	7988.1	17483.6	27258.0	27649.7	23924.6	20783.8	18594.7
70°	2425.9	2423.7	2578.6	2999.2	3950.9	12441.5	26434.6	29146.0	26180.1	20219.4	16372.5
72.5°	1768.5	1772.9	2012.0	2512.2	3047.8	6246.2	21405.8	24938.3	24079.5	17848.8	13291.4
75°	1270.5	1277.1	1421.0	1923.4	2811.0	3415.3	14234.4	18751.9	18320.3	14307.4	9143.5
77.5°	807.9	816.7	942.9	1348.0	2270.9	2757.9	8630.0	13238.3	12189.2	8061.2	3251.5
80°	493.6	522.4	628.6	1004.9	1815.0	2069.5	4313.9	6974.4	6104.5	2211.2	1093.4
82.5°	254.5	276.7	378.5	622.0	1250.6	1817.2	2441.4	2930.5	1890.2	925.2	582.1
85°	79.7	93.0	132.8	252.3	595.4	1126.6	1615.8	1456.4	867.7	436.0	270.0
87.5°	19.9	19.9	22.1	22.1	24.3	50.9	312.1	329.8	230.2	137.2	110.7
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°	8371.1	8371.1	8371.1	8371.1	8371.1	8371.1	8371.1	8371.1	8371.1	8371.1	8371.1
2.5°	8313.5	8260.4	8238.3	8236.0	8180.7	8101.0	8047.9	8010.3	7988.1	7983.7	7983.7
5°	8165.2	8096.6	8005.9	7937.2	7788.9	7638.4	7512.3	7441.4	7359.5	7348.5	7346.3
7.5°	7968.2	7868.6	7696.0	7503.4	7244.4	6994.3	6781.8	6638.0	6494.1	6467.5	6458.7
10°	7755.7	7620.7	7326.3	6987.7	6600.3	6226.3	5900.9	5646.4	5478.2	5358.6	5336.5
12.5°	7545.5	7366.2	6934.6	6429.9	5898.7	5387.4	4898.2	4482.1	4181.1	4006.2	3975.3
15°	7348.5	7098.4	6507.4	5863.3	5172.7	4473.3	3780.5	3240.4	2817.7	2667.1	2631.7
17.5°	7169.2	6857.1	6093.5	5276.7	4415.7	3501.6	2713.6	2233.3	1985.4	1910.2	1892.5
20°	6989.9	6609.2	5672.9	4659.2	3612.3	2587.5	1983.2	1757.4	1664.5	1635.7	1626.8
22.5°	6797.3	6337.0	5214.8	4050.5	2799.9	1936.7	1622.4	1522.8	1494.0	1496.3	1494.0
25°	6604.8	6060.3	4734.5	3388.7	2085.0	1571.5	1416.6	1378.9	1385.6	1405.5	1409.9
27.5°	6445.4	5814.6	4263.0	2662.7	1629.1	1352.4	1279.3	1277.1	1301.5	1328.0	1332.5
30°	6330.3	5595.5	3798.2	2047.4	1341.3	1201.9	1173.1	1186.4	1215.2	1235.1	1241.7
32.5°	6248.4	5407.3	3302.4	1609.1	1175.3	1095.6	1082.4	1095.6	1113.3	1133.3	1137.7
35°	6219.6	5270.1	2815.4	1312.5	1062.4	1018.2	1009.3	1015.9	1024.8	1035.9	1040.3
37.5°	6283.8	5201.5	2306.4	1142.1	993.8	967.3	954.0	949.5	951.8	956.2	958.4
40°	6474.2	5232.5	1890.2	1042.5	949.5	925.2	903.1	894.2	892.0	896.4	894.2
42.5°	6801.8	5363.1	1589.2	985.0	914.1	878.7	854.4	845.5	845.5	856.6	856.6
45°	7282.1	5619.8	1372.3	942.9	883.1	838.9	812.3	807.9	816.7	834.5	836.7
47.5°	7985.9	5996.1	1241.7	911.9	854.4	803.5	776.9	774.7	792.4	821.2	823.4
50°	8820.4	6538.4	1170.9	889.8	834.5	774.7	748.1	750.3	770.3	801.2	807.9
52.5°	9825.3	7277.6	1175.3	880.9	823.4	757.0	730.4	726.0	745.9	776.9	783.5
55°	10863.3	8176.3	1261.6	883.1	807.9	748.1	712.7	697.2	714.9	737.1	739.3
57.5°	12005.5	9190.0	1476.3	878.7	788.0	739.3	697.2	661.8	672.9	686.2	692.8
60°	13293.7	10383.0	1938.9	887.6	779.1	719.4	666.2	619.8	617.5	626.4	628.6
62.5°	15015.7	12005.5	2459.1	903.1	799.0	695.0	619.8	571.1	562.2	566.6	568.8
65°	16332.7	12780.1	2295.3	889.8	841.1	677.3	575.5	524.6	506.9	502.4	502.4
67.5°	15797.0	11755.3	1598.1	854.4	861.0	679.5	540.1	475.9	453.7	442.7	440.5
70°	13442.0	9548.6	1111.1	819.0	838.9	675.1	502.4	436.0	407.3	391.8	389.6
72.5°	10619.9	7290.9	898.6	748.1	761.4	608.7	447.1	391.8	367.4	347.5	347.5
75°	6835.0	4448.9	750.3	666.2	622.0	473.7	387.3	349.7	325.4	305.4	305.4
77.5°	2299.7	1651.2	582.1	564.4	464.8	356.4	325.4	301.0	281.1	263.4	261.2
80°	934.1	783.5	427.2	427.2	325.4	272.2	254.5	243.5	230.2	208.1	208.1
82.5°	542.3	475.9	298.8	259.0	216.9	188.1	177.1	166.0	166.0	150.5	150.5
85°	261.2	263.4	179.3	159.4	124.0	108.5	104.0	97.4	95.2	86.3	84.1
87.5°	141.7	143.9	90.7	70.8	48.7	42.1	35.4	33.2	31.0	28.8	28.8
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)