

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: P643182

Luminaire Tested: GWS-SA6E-735-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-735-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43772.8 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

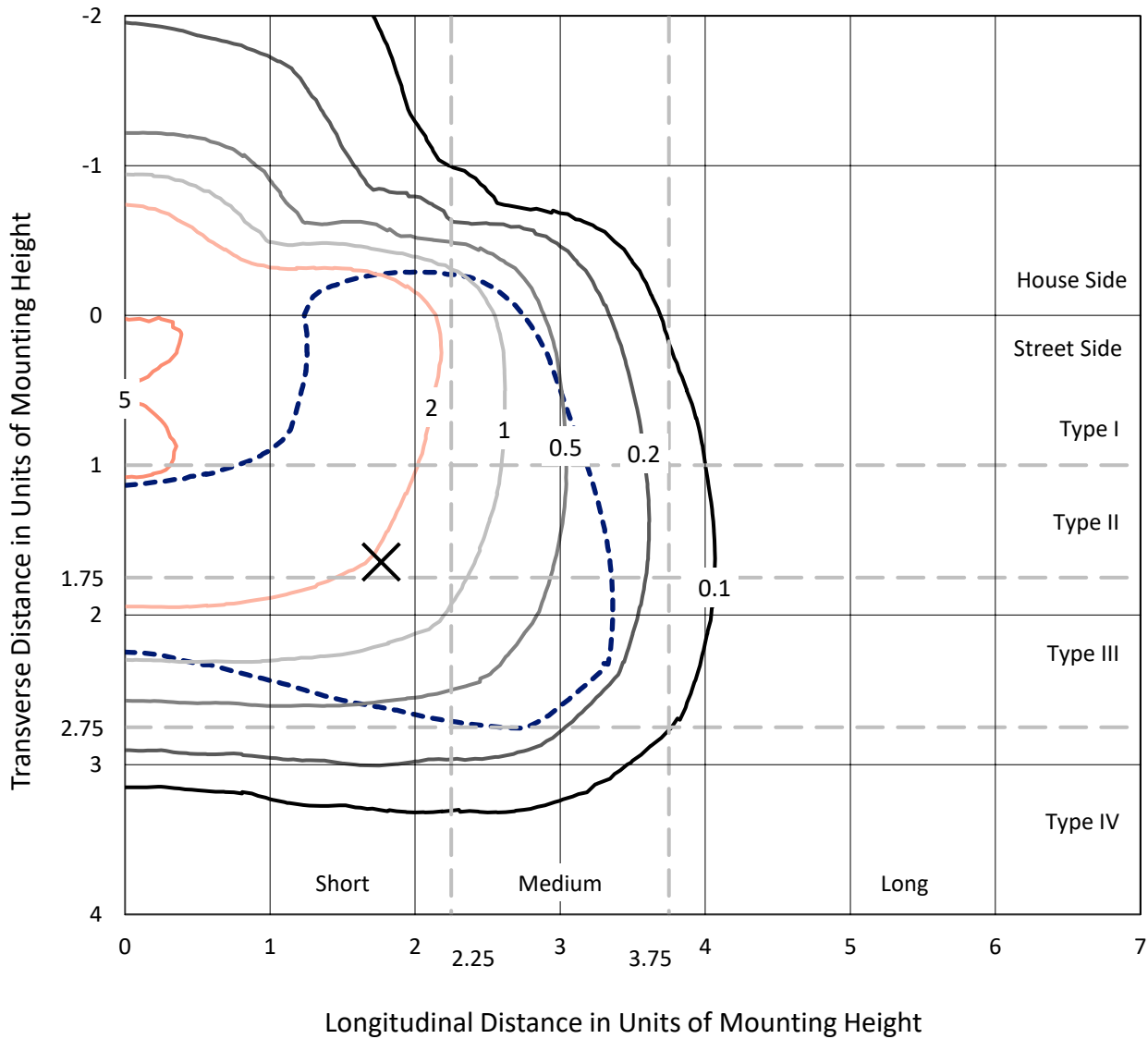
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

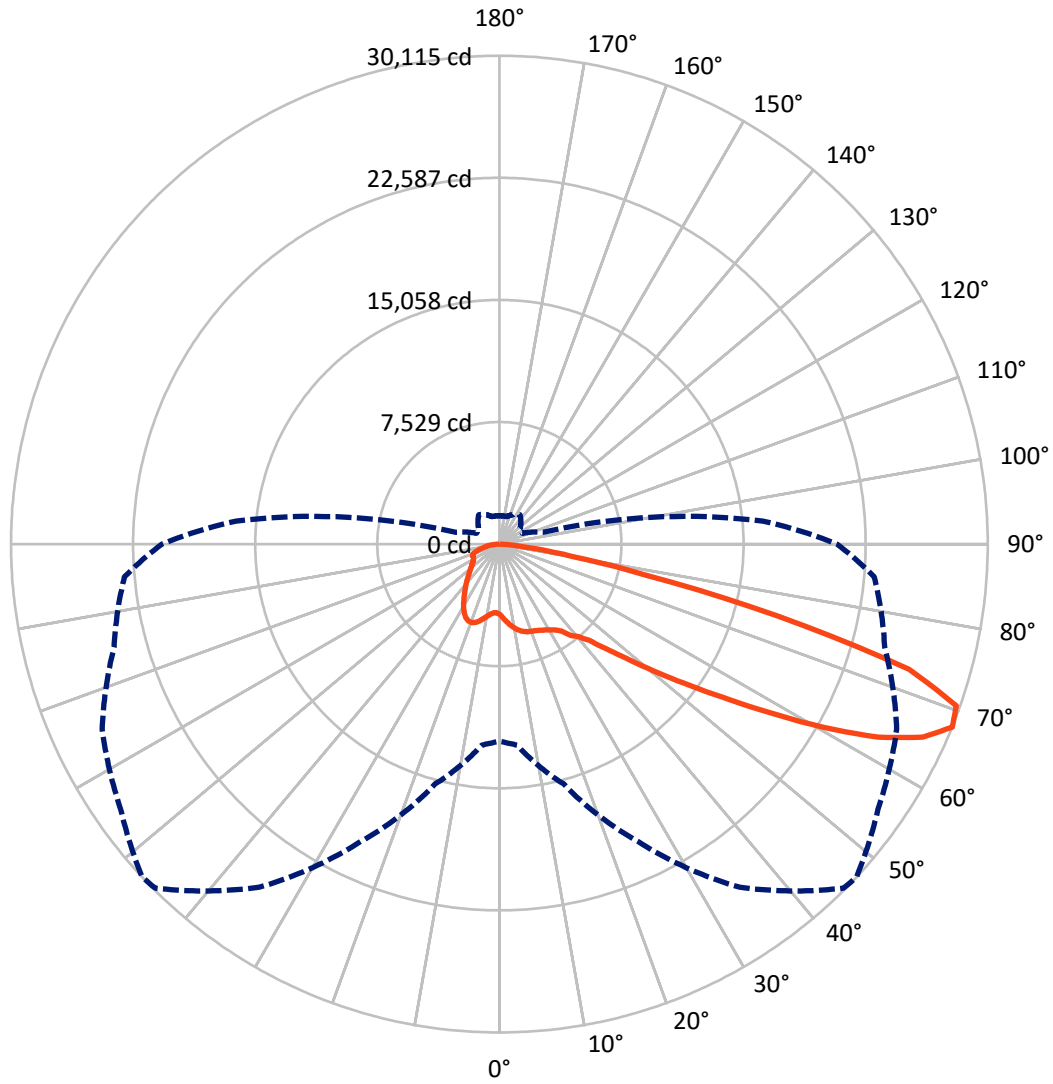
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9976.2	0.0	9976.2
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	33796.7	0.0	33796.7
	% Fixture	77.2	0.0	77.2
Total	Lumens	43772.8	0.0	43772.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.5	1.0
10°-20°	1477.5	3.4
20°-30°	2511.4	5.7
30°-40°	3678.9	8.4
40°-50°	5605.2	12.8
50°-60°	10029.0	22.9
60°-70°	13382.6	30.6
70°-80°	6051.9	13.8
80°-90°	592.9	1.4
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°	43772.8	100.0
0°-180°	43772.8	100.0

Coefficient of Utilization



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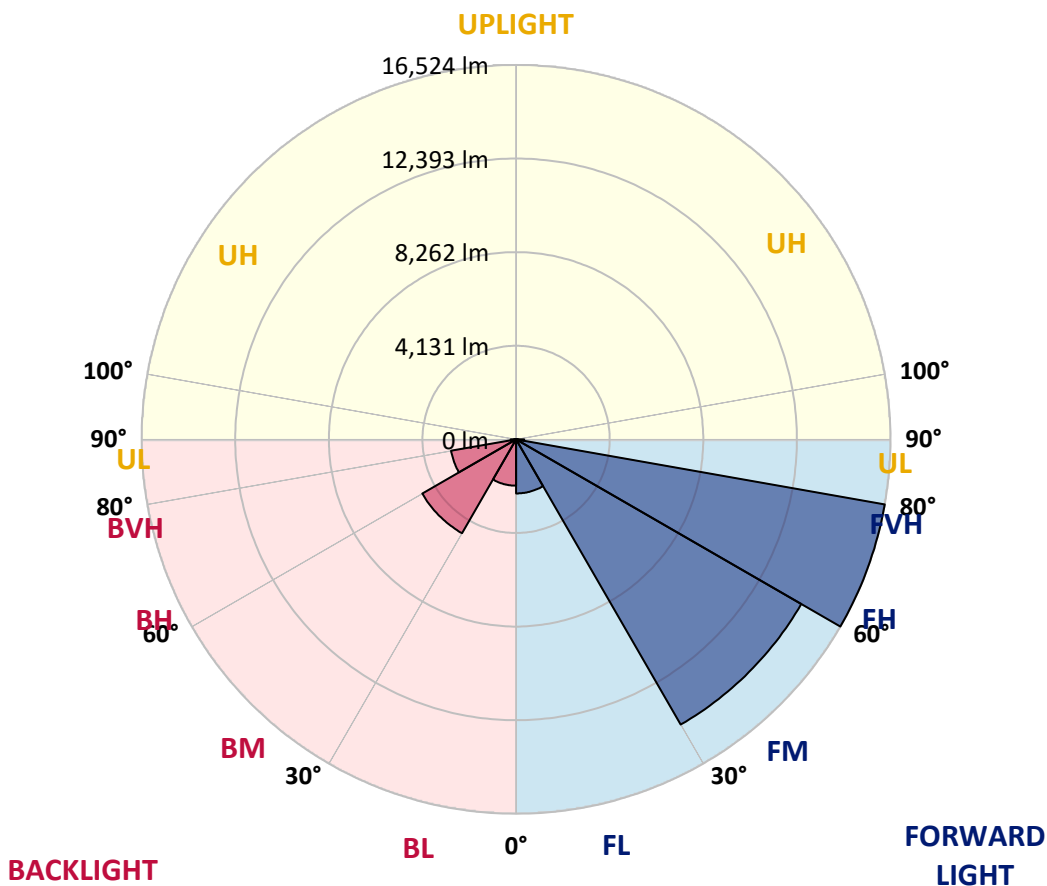
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2387.2	5.5			
FM (30°-60°)	14533.0	33.2			
FH (60°-80°)	16523.7	37.7			G5
FVH (80°-90°)	352.7	0.8			G3/500
BL (0°-30°)	2045.1	4.7	B3/2500		
BM (30°-60°)	4780.1	10.9	B3/5000		
BH (60°-80°)	2910.7	6.6	B4/5000		G4/5000
BVH (80°-90°)	240.2	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 <td></td> <td>U0/0</td> <td></td>		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4339.3	4339.3	4339.3	4339.3	4339.3	4339.3	4339.3	4339.3	4339.3	4339.3	4339.3
2.5°	4627.3	4643.1	4639.9	4614.6	4598.8	4570.3	4573.5	4529.2	4462.7	4418.4	4367.8
5°	5035.6	5060.9	5029.2	4988.1	4924.8	4833.0	4823.5	4722.2	4595.6	4507.0	4415.2
7.5°	5390.1	5405.9	5367.9	5298.3	5206.5	5083.1	5060.9	4940.6	4782.4	4643.1	4510.2
10°	5665.4	5684.4	5633.8	5542.0	5421.7	5298.3	5282.5	5159.0	4991.3	4826.7	4658.9
12.5°	5899.6	5906.0	5852.2	5728.7	5599.0	5472.4	5456.5	5342.6	5187.5	5019.8	4836.2
15°	6035.7	6038.9	5972.4	5836.3	5712.9	5602.1	5592.6	5494.5	5352.1	5193.8	4997.6
17.5°	6026.2	6032.6	5985.1	5864.8	5757.2	5690.7	5681.2	5617.9	5507.2	5364.7	5168.5
20°	5909.1	5915.5	5883.8	5804.7	5747.7	5728.7	5731.9	5712.9	5646.4	5529.3	5329.9
22.5°	5817.3	5826.8	5798.4	5741.4	5735.1	5779.4	5788.9	5798.4	5766.7	5662.3	5469.2
25°	5861.7	5877.5	5833.2	5754.0	5766.7	5864.8	5883.8	5915.5	5890.1	5801.5	5633.8
27.5°	6168.7	6178.2	6064.2	5902.8	5864.8	5969.3	5997.8	6048.4	6029.4	5947.1	5817.3
30°	6880.8	6874.5	6630.8	6235.1	6076.9	6118.0	6140.2	6213.0	6219.3	6165.5	6042.1
32.5°	7884.1	7852.5	7475.8	6846.0	6387.1	6285.8	6311.1	6409.2	6482.0	6425.0	6257.3
35°	8944.4	8915.9	8501.3	7763.8	6959.9	6608.6	6580.1	6656.1	6766.9	6608.6	6368.1
37.5°	9954.1	9909.7	9485.6	8574.1	7665.7	7175.1	7134.0	7058.0	6991.6	6687.7	6504.2
40°	11074.5	11023.8	10653.5	9621.7	8444.3	7608.8	7504.3	7203.6	7143.5	6950.4	6858.6
42.5°	12270.9	12270.9	11963.9	10947.9	9384.3	8229.1	8093.0	7640.4	7703.7	7577.1	7469.5
45°	13467.2	13502.1	13258.4	12283.5	10640.9	9400.2	9181.8	8539.3	8691.2	8634.2	8580.4
47.5°	14486.4	14552.9	14505.4	13647.7	12179.1	10824.4	10492.1	9824.3	10150.3	10286.4	10438.3
50°	15584.7	15657.5	15610.0	15271.3	13980.0	12549.4	12251.9	11561.9	12122.1	12530.4	13027.3
52.5°	17214.7	17319.1	16923.5	16793.7	16167.0	14508.5	14242.7	13457.7	14473.7	15151.0	16258.8
55°	18591.4	18588.3	18449.0	18746.5	18515.5	16904.5	16610.1	15898.0	17195.7	17914.1	19534.6
57.5°	19230.8	19306.7	19784.7	20626.6	21088.7	19832.1	19550.5	18822.5	20117.0	20490.5	22240.7
60°	19559.9	19654.9	20579.1	22243.9	23487.8	23028.8	22918.1	21990.7	22718.7	22674.3	24522.7
62.5°	19097.9	19287.8	20772.2	22984.5	25200.0	26241.3	26206.5	24804.4	24931.0	24497.4	25937.5
65°	16977.3	17183.0	19512.5	22614.2	26178.0	28684.8	28694.3	27352.3	26630.6	25383.6	25700.1
67.5°	12141.1	12435.4	15315.6	20234.1	25833.1	30004.6	30115.4	28507.5	27029.4	24598.7	23206.1
70°	6618.1	6833.3	9090.0	14707.9	22725.0	29688.1	29893.8	27950.5	25269.7	21278.6	17863.5
72.5°	3006.8	3076.4	4228.5	8070.9	15524.5	25554.5	26415.4	24943.7	20753.2	15717.6	11359.3
75°	1376.8	1408.4	1842.1	3861.3	8112.0	17100.7	17705.2	18578.8	14442.1	9925.6	5921.8
77.5°	864.1	873.6	1047.6	1766.1	4044.9	8536.1	9172.3	11061.8	8457.0	4912.1	2475.1
80°	509.6	519.1	652.0	955.8	1899.0	3905.7	4510.2	4374.1	3975.3	2120.6	1126.8
82.5°	256.4	265.9	376.6	544.4	1035.0	1554.0	1829.4	1838.9	1481.2	1148.9	636.2
85°	91.8	95.0	123.4	215.2	439.9	512.7	572.9	699.5	724.8	667.8	307.0
87.5°	0.0	0.0	3.2	6.3	12.7	50.6	53.8	101.3	212.1	237.4	123.4
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°	4339.3	4339.3	4339.3	4339.3	4339.3	4339.3	4339.3	4339.3	4339.3	4339.3	4339.3
2.5°	4351.9	4304.5	4288.6	4272.8	4247.5	4238.0	4219.0	4200.0	4200.0	4181.0	4171.5
5°	4374.1	4310.8	4269.6	4250.6	4234.8	4244.3	4244.3	4250.6	4272.8	4260.1	4266.5
7.5°	4453.2	4380.4	4323.4	4307.6	4307.6	4345.6	4370.9	4402.6	4443.7	4450.0	4450.0
10°	4592.5	4507.0	4446.9	4437.4	4453.2	4507.0	4545.0	4583.0	4633.6	4636.8	4643.1
12.5°	4744.4	4658.9	4598.8	4611.5	4627.3	4696.9	4738.1	4769.7	4820.4	4820.4	4817.2
15°	4902.6	4807.7	4757.1	4782.4	4829.9	4909.0	4915.3	4918.5	4943.8	4937.5	4934.3
17.5°	5067.2	4965.9	4928.0	4965.9	5016.6	5054.6	5022.9	4978.6	4969.1	4956.5	4950.1
20°	5228.6	5124.2	5108.4	5136.9	5152.7	5121.0	5022.9	4940.6	4902.6	4883.7	4877.3
22.5°	5367.9	5279.3	5269.8	5269.8	5190.7	5079.9	4934.3	4823.5	4772.9	4747.6	4741.2
25°	5532.5	5450.2	5434.4	5348.9	5146.4	4943.8	4747.6	4646.3	4605.1	4592.5	4595.6
27.5°	5725.6	5668.6	5617.9	5374.2	5019.8	4703.2	4481.7	4437.4	4421.6	4437.4	4446.9
30°	5962.9	5906.0	5792.0	5342.6	4817.2	4389.9	4177.9	4174.7	4222.2	4263.3	4269.6
32.5°	6156.0	6130.7	5943.9	5241.3	4532.3	4044.9	3864.5	3877.2	3962.6	4019.6	4029.1
35°	6307.9	6349.1	6070.5	5073.6	4193.7	3718.9	3576.5	3582.8	3630.3	3709.4	3712.6
37.5°	6523.1	6662.4	6184.5	4817.2	3804.4	3437.2	3307.5	3260.0	3253.7	3275.8	3282.1
40°	6956.8	7165.7	6266.8	4443.7	3427.7	3184.0	3038.4	2946.7	2867.5	2807.4	2788.4
42.5°	7611.9	7852.5	6314.3	3991.1	3092.2	2934.0	2769.4	2652.3	2513.0	2386.4	2342.1
45°	8814.6	8893.8	6314.3	3510.0	2794.7	2699.8	2535.2	2395.9	2218.7	2069.9	2038.3
47.5°	10739.0	10485.8	6320.6	3044.8	2532.0	2494.1	2351.6	2193.4	1997.1	1873.7	1854.7
50°	13638.2	12748.8	6450.4	2658.6	2313.6	2320.0	2215.5	2041.5	1864.2	1772.4	1756.6
52.5°	16923.5	15537.2	6798.5	2373.8	2130.1	2177.5	2120.6	1952.8	1794.6	1715.5	1699.6
55°	20012.5	18100.9	7096.0	2171.2	1975.0	2057.3	2054.1	1899.0	1756.6	1677.5	1668.0
57.5°	22639.5	19857.5	7051.7	2006.6	1842.1	1946.5	1994.0	1864.2	1731.3	1664.8	1655.3
60°	24272.7	20788.0	6421.9	1854.7	1740.8	1867.4	1959.2	1854.7	1743.9	1728.1	1731.3
62.5°	24981.7	20617.1	5212.8	1740.8	1674.3	1829.4	1997.1	1921.2	1861.0	1899.0	1921.2
65°	23880.2	19148.5	3836.0	1655.3	1611.0	1838.9	2085.8	2025.6	1861.0	1886.4	1895.9
67.5°	20822.8	16300.0	2772.6	1569.9	1531.9	1867.4	2212.4	2009.8	1753.4	1753.4	1734.4
70°	15005.5	11723.3	2013.0	1484.4	1452.8	1826.2	2218.7	1902.2	1630.0	1620.5	1573.0
72.5°	9029.9	6915.6	1569.9	1389.5	1332.5	1620.5	2079.4	1775.6	1509.7	1430.6	1373.6
75°	4690.6	3465.7	1316.7	1285.0	1142.6	1373.6	1902.2	1579.4	1291.3	1221.7	1190.1
77.5°	2009.8	1620.5	1129.9	1145.7	949.5	1155.2	1535.0	1367.3	1145.7	1057.1	1028.6
80°	990.7	921.0	892.5	917.9	759.6	892.5	1323.0	1196.4	971.7	870.4	829.2
82.5°	566.5	538.1	642.5	652.0	541.2	746.9	1117.3	1012.8	803.9	693.1	626.7
85°	262.7	281.7	389.3	392.5	335.5	512.7	731.1	569.7	427.3	354.5	338.7
87.5°	104.4	123.4	170.9	167.7	98.1	95.0	63.3	34.8	28.5	25.3	22.2
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)