

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: P643142

Luminaire Tested: GWS-SA6E-735-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-735-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38920.8 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

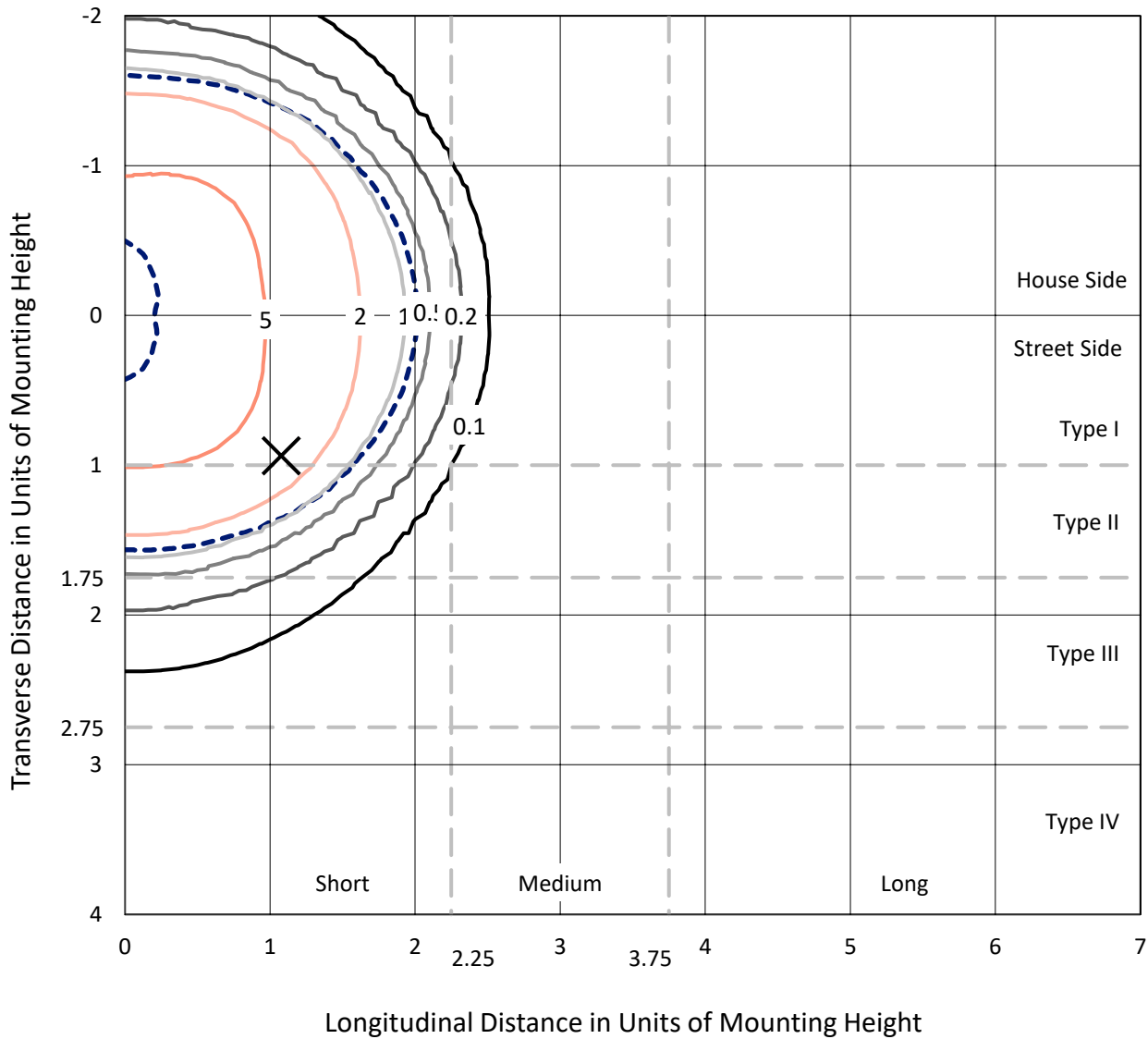
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

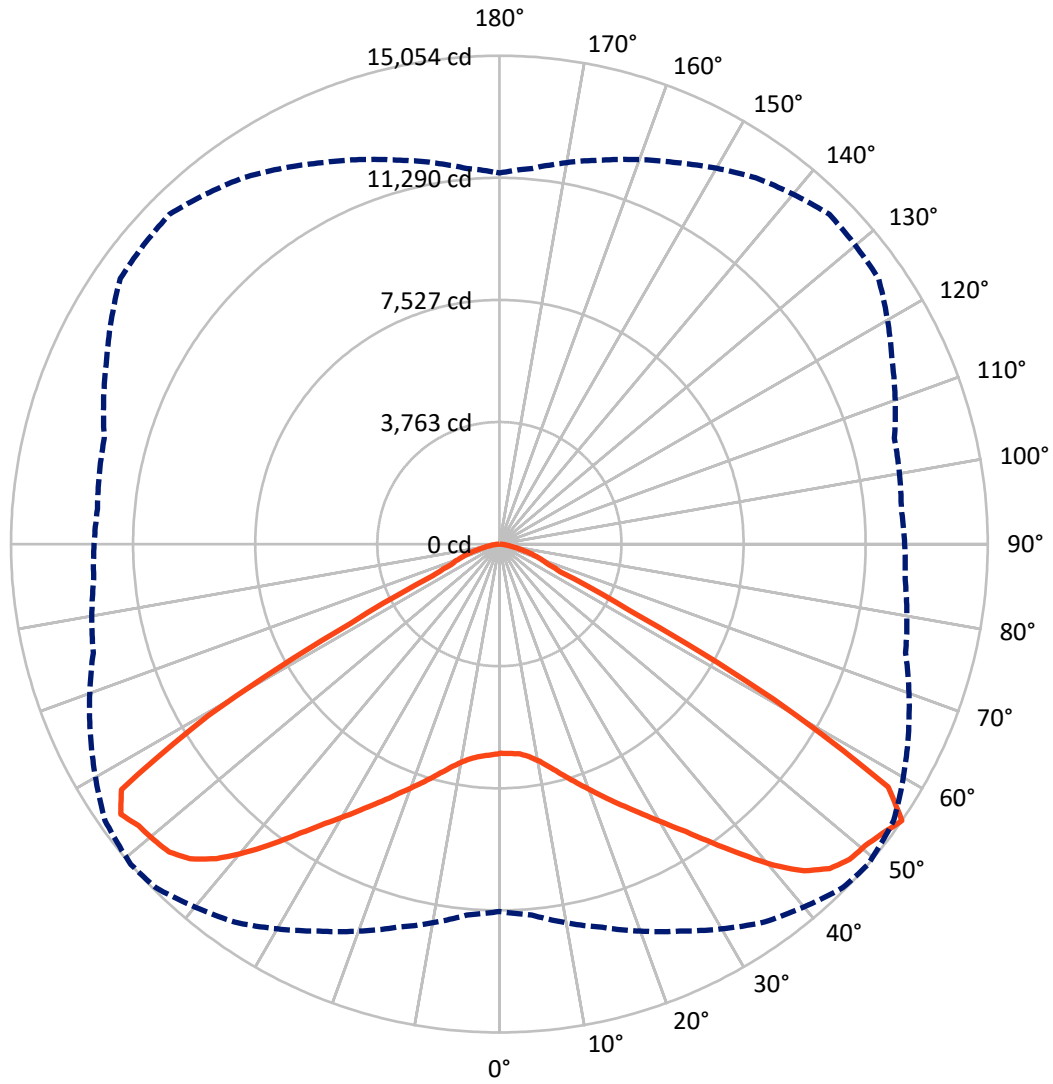
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19269.5	0.0	19269.5
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	19651.3	0.0	19651.3
	% Fixture	50.5	0.0	50.5
Total	Lumens	38920.8	0.0	38920.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.9	1.6
10°-20°	2074.6	5.3
20°-30°	3951.4	10.2
30°-40°	6698.5	17.2
40°-50°	10080.8	25.9
50°-60°	11034.4	28.4
60°-70°	3489.1	9.0
70°-80°	837.4	2.2
80°-90°	125.7	0.3
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°	38920.8	100.0
0°-180°	38920.8	100.0

Coefficient of Utilization



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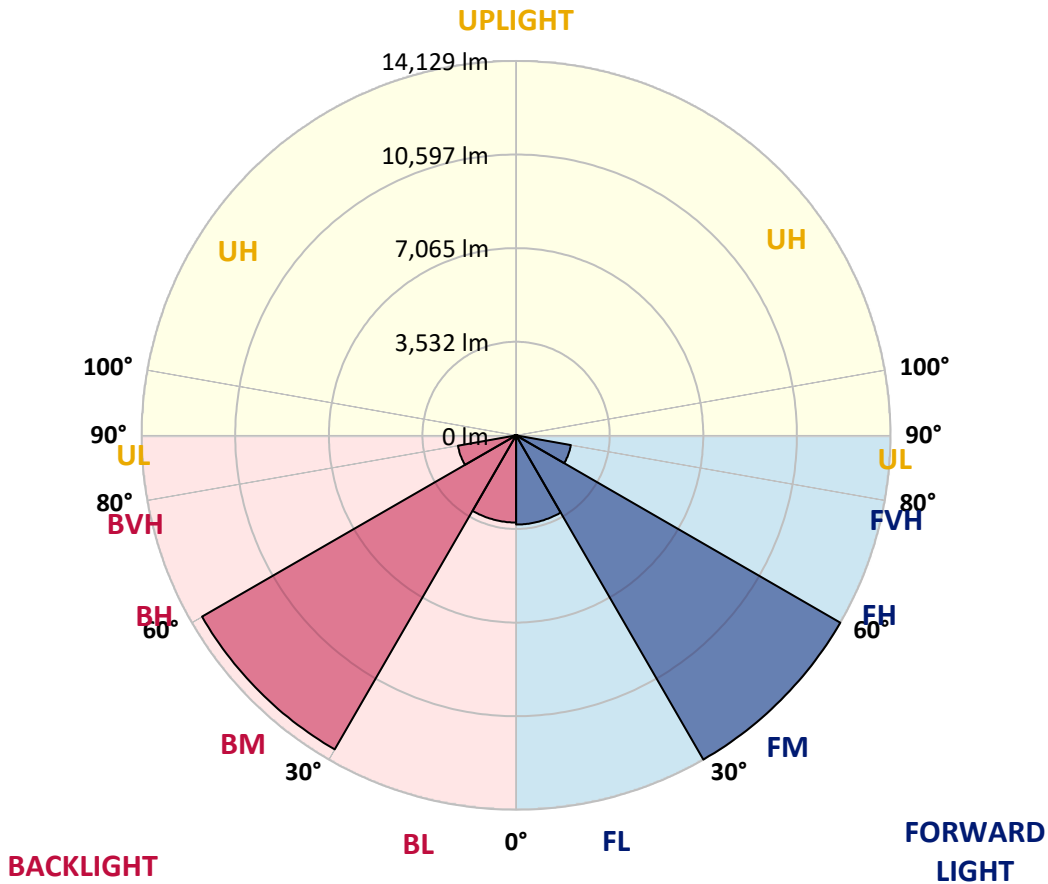
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3365.1	8.6			
FM (30°-60°)	14129.3	36.3			
FH (60°-80°)	2098.7	5.4			G2/5000
FVH (80°-90°)	58.2	0.1			G1/100
BL (0°-30°)	3289.9	8.5	B4/5000		
BM (30°-60°)	13684.4	35.2	B5		
BH (60°-80°)	2227.8	5.7	B3/2500		G2/5000
BVH (80°-90°)	67.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	6447.5	6447.5	6447.5	6447.5	6447.5	6447.5	6447.5	6447.5	6447.5	6447.5	6447.5
2.5°	6352.5	6358.8	6371.5	6393.7	6415.8	6447.5	6460.1	6476.0	6472.8	6491.8	6491.8
5°	6320.9	6330.4	6349.3	6381.0	6419.0	6479.1	6494.9	6532.9	6570.9	6618.4	6634.2
7.5°	6358.8	6371.5	6393.7	6444.3	6501.3	6580.4	6612.1	6675.4	6748.2	6833.6	6868.4
10°	6431.6	6447.5	6485.4	6567.7	6659.5	6779.8	6808.3	6887.4	7004.5	7121.6	7191.3
12.5°	6513.9	6539.3	6608.9	6738.7	6874.8	7033.0	7077.3	7175.5	7302.1	7454.0	7548.9
15°	6608.9	6631.0	6738.7	6922.2	7134.3	7343.2	7393.9	7488.8	7631.2	7780.0	7912.9
17.5°	6808.3	6846.3	6972.9	7185.0	7431.8	7678.7	7735.7	7843.3	7957.3	8074.4	8201.0
20°	7080.5	7112.2	7273.6	7536.3	7827.5	8052.2	8109.2	8204.1	8257.9	8318.1	8425.7
22.5°	7352.7	7397.0	7580.6	7890.8	8232.6	8476.3	8520.7	8609.3	8571.3	8552.3	8621.9
25°	7691.4	7751.5	7931.9	8270.6	8618.8	8919.5	8954.3	9030.3	8966.9	8868.8	8865.7
27.5°	8112.3	8166.2	8352.9	8701.1	9046.1	9359.4	9425.9	9527.2	9387.9	9267.6	9182.2
30°	8612.4	8647.3	8853.0	9223.3	9577.8	9875.4	9960.8	10062.1	9957.6	9758.2	9672.8
32.5°	9194.8	9242.3	9479.7	9869.0	10185.5	10483.1	10568.5	10695.1	10581.2	10356.5	10248.8
35°	9894.3	9941.8	10191.9	10616.0	10938.9	11245.9	11306.0	11410.5	11268.0	11008.5	10923.0
37.5°	10654.0	10714.1	11030.6	11432.6	11771.3	12129.0	12132.1	12163.8	11961.2	11638.4	11543.4
40°	11508.6	11587.7	11904.2	12322.0	12730.3	13021.5	13018.4	12929.8	12587.9	12087.8	11942.2
42.5°	12353.7	12417.0	12736.7	13167.1	13575.4	13850.8	13768.5	13553.3	13059.5	12379.0	12185.9
45°	12964.6	13012.0	13347.6	13831.8	14246.5	14417.4	14268.6	14009.1	13341.2	12562.6	12277.7
47.5°	13252.6	13315.9	13654.6	14135.7	14604.1	14702.2	14525.0	14281.3	13505.8	12733.5	12350.5
50°	13097.5	13179.8	13562.8	14009.1	14537.7	14740.2	14613.6	14369.9	13679.9	12901.3	12480.3
52.5°	12695.5	12774.7	13258.9	13800.2	14398.4	14800.4	14797.2	14597.8	13879.3	12948.7	12486.6
55°	11321.8	11476.9	12230.2	13164.0	14227.5	14977.6	15053.6	14841.5	13911.0	12961.4	12553.1
57.5°	7368.5	7640.7	8356.1	9571.5	11704.8	13622.9	14135.7	14186.3	13683.1	12907.6	12565.8
60°	3076.6	3294.9	3861.5	4668.6	6431.6	8713.7	9707.6	10704.6	11907.4	12344.2	12448.6
62.5°	1911.8	1930.8	1987.7	2171.3	2760.0	3874.2	4513.5	5447.3	7235.6	8758.0	9460.7
65°	1725.0	1734.5	1747.2	1734.5	1763.0	1899.1	2070.0	2396.0	3124.0	3880.5	4779.4
67.5°	1519.3	1531.9	1541.4	1531.9	1541.4	1547.8	1566.8	1595.2	1728.2	1835.8	1918.1
70°	1228.1	1247.1	1262.9	1256.6	1294.6	1294.6	1313.5	1335.7	1402.2	1481.3	1538.3
72.5°	936.9	921.1	940.1	946.4	981.2	1000.2	1028.7	1054.0	1130.0	1177.4	1250.2
75°	607.7	591.9	620.4	636.2	683.7	709.0	734.3	759.6	813.5	845.1	914.7
77.5°	329.2	326.0	354.5	376.7	427.3	459.0	477.9	496.9	541.2	550.7	595.1
80°	189.9	189.9	208.9	224.7	256.4	291.2	310.2	326.0	357.7	367.2	386.2
82.5°	104.5	104.5	113.9	123.4	148.8	167.8	183.6	196.2	224.7	234.2	243.7
85°	50.6	47.5	53.8	60.1	69.6	79.1	88.6	95.0	117.1	123.4	136.1
87.5°	6.3	6.3	6.3	9.5	12.7	19.0	22.2	22.2	34.8	41.1	47.5
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°	6447.5	6447.5	6447.5	6447.5	6447.5	6447.5	6447.5	6447.5	6447.5	6447.5	6447.5
2.5°	6510.8	6469.6	6494.9	6504.4	6504.4	6494.9	6453.8	6441.1	6422.1	6393.7	6393.7
5°	6656.4	6624.7	6631.0	6615.2	6577.2	6529.8	6453.8	6415.8	6384.2	6349.3	6346.2
7.5°	6906.4	6865.3	6858.9	6798.8	6697.5	6596.2	6482.3	6412.6	6365.2	6320.9	6317.7
10°	7232.4	7194.4	7147.0	7026.7	6877.9	6729.2	6574.1	6479.1	6409.5	6346.2	6343.0
12.5°	7596.4	7552.1	7463.5	7286.2	7099.5	6953.9	6776.6	6631.0	6526.6	6441.1	6425.3
15°	7992.1	7928.8	7776.8	7567.9	7384.4	7229.3	7039.4	6830.5	6672.2	6536.1	6520.3
17.5°	8295.9	8213.6	8049.0	7852.8	7700.9	7545.8	7298.9	7036.2	6808.3	6637.4	6612.1
20°	8504.8	8438.4	8251.6	8106.0	8017.4	7881.3	7593.3	7295.7	7039.4	6824.1	6811.5
22.5°	8697.9	8618.8	8435.2	8349.7	8349.7	8257.9	7982.6	7631.2	7330.6	7080.5	7048.9
25°	8916.3	8830.8	8691.6	8682.1	8726.4	8685.2	8352.9	7976.2	7624.9	7343.2	7292.6
27.5°	9220.2	9125.2	9042.9	9099.9	9163.2	9118.9	8748.6	8311.8	7941.4	7656.6	7612.3
30°	9704.4	9587.3	9511.4	9581.0	9704.4	9574.7	9172.7	8710.6	8337.1	8023.7	8001.6
32.5°	10267.8	10134.9	10055.8	10166.6	10277.3	10074.8	9675.9	9232.8	8840.3	8511.2	8473.2
35°	10945.2	10777.4	10660.3	10809.1	10923.0	10723.6	10328.0	9907.0	9470.2	9128.4	9077.7
37.5°	11546.6	11344.0	11264.9	11473.8	11625.7	11495.9	11065.5	10669.8	10191.9	9818.4	9796.2
40°	11983.4	11784.0	11727.0	12072.0	12337.9	12306.2	11920.1	11467.4	11018.0	10587.5	10546.4
42.5°	12173.3	12034.0	12046.7	12511.9	12923.4	13126.0	12781.0	12296.7	11863.1	11416.8	11388.3
45°	12214.4	12129.0	12230.2	12812.6	13353.9	13768.5	13474.2	13069.0	12578.4	12148.0	12135.3
47.5°	12258.7	12211.3	12366.3	12983.6	13626.1	14107.2	13942.6	13524.8	13027.9	12606.9	12575.3
50°	12363.2	12344.2	12518.3	13103.8	13755.9	14199.0	14012.2	13597.6	13088.0	12673.4	12597.4
52.5°	12394.8	12363.2	12613.2	13290.6	13971.1	14195.8	13793.8	13252.6	12739.8	12277.7	12198.6
55°	12493.0	12436.0	12606.9	13360.2	14268.6	14379.4	13781.2	12970.9	12255.6	11625.7	11439.0
57.5°	12518.3	12455.0	12565.8	13246.3	13945.8	13847.7	12113.1	10467.2	9118.9	8419.4	8498.5
60°	12382.2	12401.2	12211.3	12135.3	11185.7	9875.4	7416.0	5928.4	4656.0	4117.9	4235.0
62.5°	9425.9	9505.0	8856.2	7700.9	5922.0	4694.0	3105.0	2411.9	2041.5	1946.6	1962.4
65°	4757.3	4864.9	4190.7	3465.9	2576.5	2082.7	1801.0	1744.0	1725.0	1702.9	1702.9
67.5°	1883.3	1914.9	1889.6	1769.3	1645.9	1601.6	1588.9	1582.6	1560.4	1547.8	1550.9
70°	1513.0	1538.3	1500.3	1424.3	1373.7	1370.5	1364.2	1351.5	1335.7	1335.7	1345.2
72.5°	1234.4	1259.7	1205.9	1158.5	1120.5	1092.0	1076.2	1066.7	1044.5	1044.5	1054.0
75°	908.4	924.2	879.9	873.6	832.4	804.0	778.6	766.0	737.5	724.8	734.3
77.5°	604.5	601.4	579.2	579.2	563.4	528.6	500.1	471.6	433.6	408.3	414.6
80°	392.5	392.5	383.0	383.0	367.2	338.7	303.9	275.4	253.2	234.2	234.2
82.5°	250.0	246.9	243.7	240.6	234.2	205.7	180.4	161.4	145.6	132.9	136.1
85°	139.3	139.3	132.9	132.9	120.3	104.5	91.8	79.1	69.6	66.5	66.5
87.5°	47.5	47.5	44.3	44.3	38.0	28.5	22.2	19.0	15.8	12.7	15.8
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)