

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: P643307

Luminaire Tested: GWS-SA6E-760-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643307
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39812.7 lumens
Efficiency: N/A
Efficacy: 123.0 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

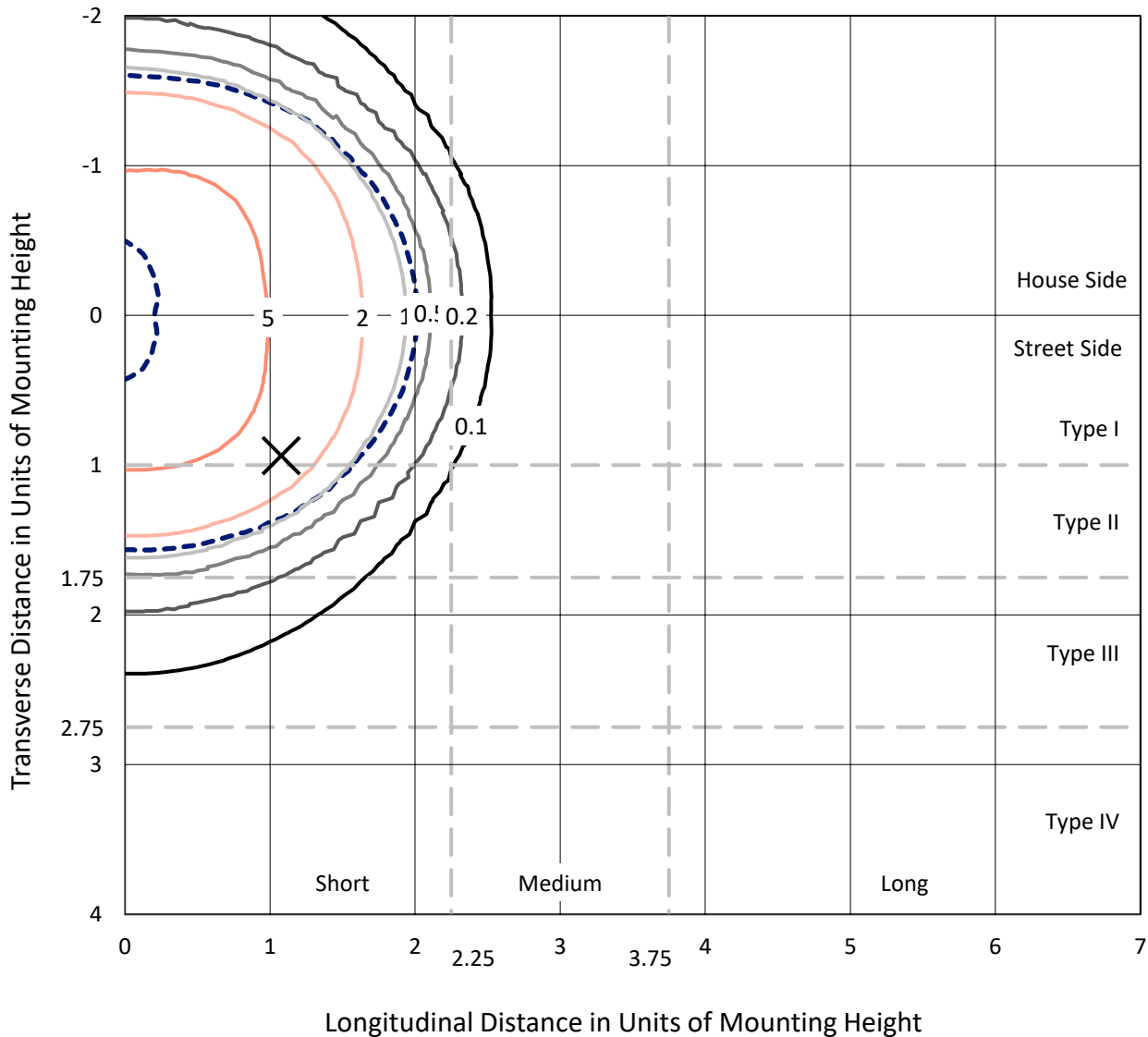


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Iso-Footcandle Lines of Horizontal Illumination

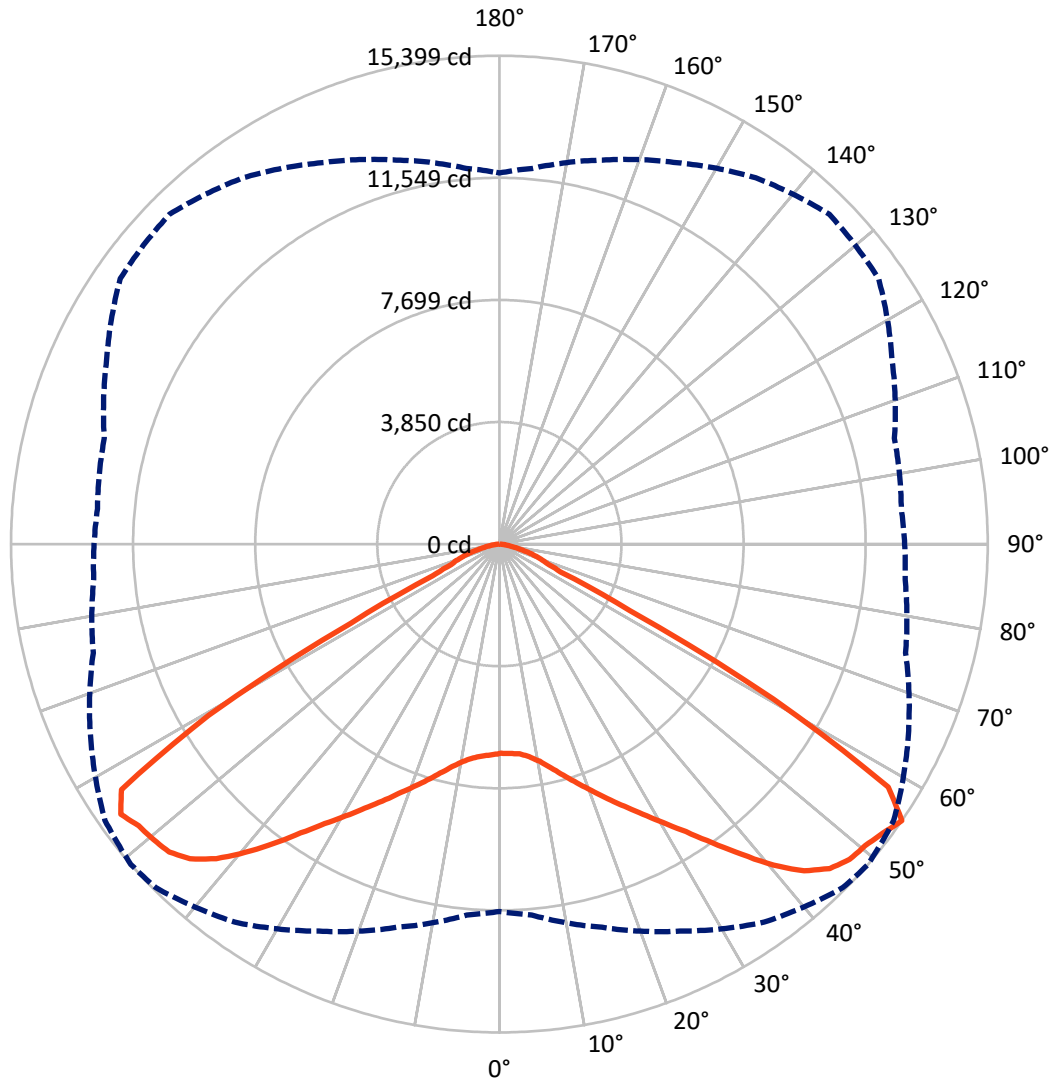
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 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	19711.1	0.0	19711.1
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	20101.6	0.0	20101.6
	% Fixture	50.5	0.0	50.5
Total	Lumens	39812.7	0.0	39812.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.4	1.6
10°-20°	2122.1	5.3
20°-30°	4042.0	10.2
30°-40°	6852.0	17.2
40°-50°	10311.8	25.9
50°-60°	11287.3	28.4
60°-70°	3569.1	9.0
70°-80°	856.6	2.2
80°-90°	128.6	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°	39812.7	100.0
0°-180°	39812.7	100.0

Coefficient of Utilization



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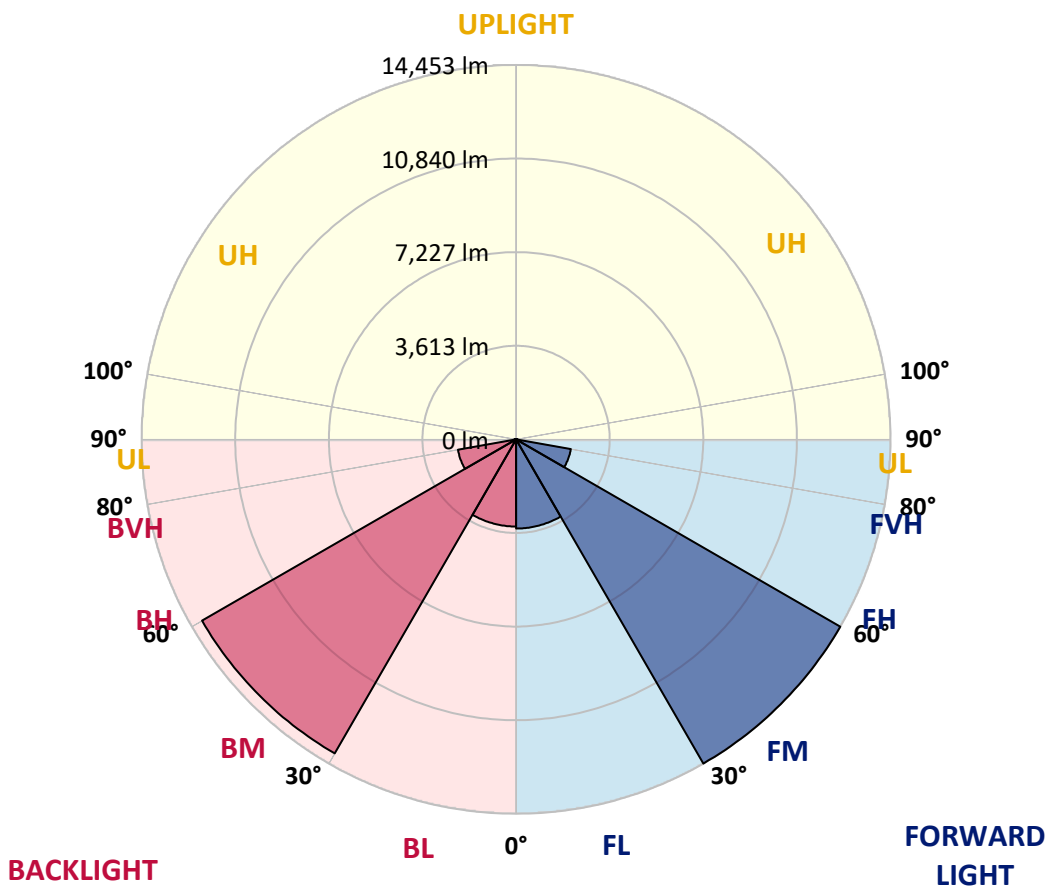
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3442.2	8.6			
FM (30°-60°)	14453.1	36.3			
FH (60°-80°)	2146.9	5.4			G2/5000
FVH (80°-90°)	59.5	0.1			G1/100
BL (0°-30°)	3365.3	8.5	B4/5000		
BM (30°-60°)	13997.9	35.2	B5		
BH (60°-80°)	2278.8	5.7	B3/2500		G2/5000
BVH (80°-90°)	69.0	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°	6595.2	6595.2	6595.2	6595.2	6595.2	6595.2	6595.2	6595.2	6595.2	6595.2	6595.2
2.5°	6498.1	6504.6	6517.5	6540.2	6562.8	6595.2	6608.2	6624.4	6621.1	6640.5	6640.5
5°	6465.7	6475.4	6494.8	6527.2	6566.1	6627.6	6643.8	6682.6	6721.5	6770.1	6786.2
7.5°	6504.6	6517.5	6540.2	6592.0	6650.3	6731.2	6763.6	6828.3	6902.8	6990.2	7025.8
10°	6579.0	6595.2	6634.1	6718.2	6812.1	6935.2	6964.3	7045.3	7165.1	7284.8	7356.1
12.5°	6663.2	6689.1	6760.3	6893.1	7032.3	7194.2	7239.5	7339.9	7469.4	7624.8	7721.9
15°	6760.3	6783.0	6893.1	7080.9	7297.8	7511.5	7563.3	7660.4	7806.1	7958.3	8094.3
17.5°	6964.3	7003.2	7132.7	7349.6	7602.1	7854.7	7913.0	8023.0	8139.6	8259.4	8388.9
20°	7242.8	7275.1	7440.3	7709.0	8006.9	8236.7	8295.0	8392.1	8447.2	8508.7	8618.8
22.5°	7521.2	7566.5	7754.3	8071.6	8421.3	8670.6	8715.9	8806.6	8767.7	8748.3	8819.5
25°	7867.6	7929.2	8113.7	8460.1	8816.3	9123.9	9159.5	9237.2	9172.4	9072.1	9068.8
27.5°	8298.3	8353.3	8544.3	8900.5	9253.4	9573.9	9641.9	9745.5	9603.0	9480.0	9392.6
30°	8809.8	8845.4	9055.9	9434.7	9797.3	10101.7	10189.1	10292.7	10185.8	9981.9	9894.4
32.5°	9405.5	9454.1	9696.9	10095.2	10419.0	10723.3	10810.7	10940.2	10823.7	10593.8	10483.7
35°	10121.1	10169.6	10425.4	10859.3	11189.5	11503.6	11565.1	11671.9	11526.2	11260.8	11173.3
37.5°	10898.1	10959.6	11283.4	11694.6	12041.0	12406.9	12410.1	12442.5	12235.3	11905.1	11807.9
40°	11772.3	11853.3	12177.0	12604.4	13022.1	13319.9	13316.7	13226.0	12876.4	12364.8	12215.9
42.5°	12636.8	12701.5	13028.5	13468.9	13886.5	14168.2	14084.0	13863.9	13358.8	12662.7	12465.2
45°	13261.7	13310.2	13653.4	14148.8	14572.9	14747.8	14595.6	14330.1	13646.9	12850.5	12559.1
47.5°	13556.3	13621.0	13967.5	14459.6	14938.8	15039.2	14857.9	14608.5	13815.3	13025.3	12633.5
50°	13397.6	13481.8	13873.6	14330.1	14870.8	15078.0	14948.5	14699.2	13993.4	13196.9	12766.3
52.5°	12986.5	13067.4	13562.8	14116.4	14728.3	15139.5	15136.3	14932.3	14197.4	13245.5	12772.8
55°	11581.3	11739.9	12510.5	13465.6	14553.5	15320.8	15398.5	15181.6	14229.7	13258.4	12840.8
57.5°	7537.4	7815.8	8547.6	9790.8	11973.1	13935.1	14459.6	14511.4	13996.6	13203.4	12853.7
60°	3147.1	3370.5	3950.0	4775.6	6579.0	8913.4	9930.1	10949.9	12180.3	12627.1	12733.9
62.5°	1955.6	1975.0	2033.3	2221.1	2823.3	3963.0	4617.0	5572.1	7401.4	8958.7	9677.5
65°	1764.6	1774.3	1787.2	1774.3	1803.4	1942.6	2117.5	2450.9	3195.6	3969.4	4888.9
67.5°	1554.1	1567.1	1576.8	1567.1	1576.8	1583.2	1602.7	1631.8	1767.8	1877.9	1962.1
70°	1256.2	1275.7	1291.8	1285.4	1324.2	1324.2	1343.6	1366.3	1434.3	1515.2	1573.5
72.5°	958.4	942.2	961.6	968.1	1003.7	1023.1	1052.3	1078.2	1155.9	1204.4	1278.9
75°	621.6	605.5	634.6	650.8	699.3	725.2	751.1	777.1	832.1	864.5	935.7
77.5°	336.7	333.5	362.6	385.3	437.1	469.5	488.9	508.3	553.6	563.4	608.7
80°	194.3	194.3	213.7	229.9	262.3	297.9	317.3	333.5	365.9	375.6	395.0
82.5°	106.8	106.8	116.6	126.3	152.2	171.6	187.8	200.7	229.9	239.6	249.3
85°	51.8	48.6	55.0	61.5	71.2	80.9	90.7	97.1	119.8	126.3	139.2
87.5°	6.5	6.5	6.5	9.7	13.0	19.4	22.7	22.7	35.6	42.1	48.6
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°	6595.2	6595.2	6595.2	6595.2	6595.2	6595.2	6595.2	6595.2	6595.2	6595.2	6595.2
2.5°	6660.0	6617.9	6643.8	6653.5	6653.5	6643.8	6601.7	6588.7	6569.3	6540.2	6540.2
5°	6808.9	6776.5	6783.0	6766.8	6728.0	6679.4	6601.7	6562.8	6530.5	6494.8	6491.6
7.5°	7064.7	7022.6	7016.1	6954.6	6851.0	6747.4	6630.8	6559.6	6511.0	6465.7	6462.5
10°	7398.2	7359.3	7310.7	7187.7	7035.5	6883.4	6724.7	6627.6	6556.4	6491.6	6488.4
12.5°	7770.5	7725.2	7634.5	7453.2	7262.2	7113.2	6931.9	6783.0	6676.2	6588.7	6572.6
15°	8175.2	8110.5	7955.1	7741.4	7553.6	7394.9	7200.7	6987.0	6825.1	6685.9	6669.7
17.5°	8486.0	8401.9	8233.5	8032.8	7877.3	7718.7	7466.2	7197.4	6964.3	6789.5	6763.6
20°	8699.7	8631.7	8440.7	8291.8	8201.1	8061.9	7767.3	7462.9	7200.7	6980.5	6967.6
22.5°	8897.2	8816.3	8628.5	8541.1	8541.1	8447.2	8165.5	7806.1	7498.5	7242.8	7210.4
25°	9120.6	9033.2	8890.8	8881.0	8926.4	8884.3	8544.3	8159.0	7799.6	7511.5	7459.7
27.5°	9431.4	9334.3	9250.1	9308.4	9373.2	9327.8	8949.0	8502.2	8123.4	7832.0	7786.7
30°	9926.8	9807.0	9729.3	9800.5	9926.8	9794.1	9382.9	8910.2	8528.1	8207.6	8184.9
32.5°	10503.1	10367.1	10286.2	10399.5	10512.8	10305.6	9897.7	9444.4	9042.9	8706.2	8667.3
35°	11196.0	11024.4	10904.6	11056.8	11173.3	10969.4	10564.6	10134.0	9687.2	9337.6	9285.8
37.5°	11811.2	11604.0	11523.0	11736.7	11892.1	11759.4	11319.0	10914.3	10425.4	10043.4	10020.7
40°	12258.0	12054.0	11995.7	12348.6	12620.6	12588.2	12193.2	11730.2	11270.5	10830.1	10788.0
42.5°	12452.2	12309.8	12322.7	12798.7	13219.6	13426.8	13073.9	12578.5	12134.9	11678.4	11649.3
45°	12494.3	12406.9	12510.5	13106.2	13659.9	14084.0	13782.9	13368.5	12866.7	12426.3	12413.4
47.5°	12539.7	12491.1	12649.7	13281.1	13938.3	14430.5	14262.1	13834.7	13326.4	12895.8	12863.4
50°	12646.5	12627.1	12805.1	13404.1	14071.1	14524.4	14333.3	13909.2	13387.9	12963.8	12886.1
52.5°	12678.9	12646.5	12902.3	13595.1	14291.3	14521.1	14109.9	13556.3	13031.8	12559.1	12478.1
55°	12779.2	12721.0	12895.8	13666.4	14595.6	14708.9	14097.0	13268.1	12536.4	11892.1	11701.1
57.5°	12805.1	12740.4	12853.7	13549.8	14265.4	14165.0	12390.7	10707.1	9327.8	8612.3	8693.3
60°	12665.9	12685.3	12491.1	12413.4	11442.1	10101.7	7586.0	6064.2	4762.7	4212.3	4332.1
62.5°	9641.9	9722.8	9059.1	7877.3	6057.8	4801.5	3176.2	2467.1	2088.3	1991.2	2007.4
65°	4866.3	4976.4	4286.7	3545.3	2635.5	2130.4	1842.3	1784.0	1764.6	1741.9	1741.9
67.5°	1926.4	1958.8	1932.9	1809.9	1683.6	1638.3	1625.3	1618.9	1596.2	1583.2	1586.5
70°	1547.6	1573.5	1534.7	1457.0	1405.2	1401.9	1395.5	1382.5	1366.3	1366.3	1376.0
72.5°	1262.7	1288.6	1233.6	1185.0	1146.1	1117.0	1100.8	1091.1	1068.4	1068.4	1078.2
75°	929.2	945.4	900.1	893.6	851.5	822.4	796.5	783.5	754.4	741.4	751.1
77.5°	618.4	615.2	592.5	592.5	576.3	540.7	511.6	482.4	443.6	417.7	424.1
80°	401.5	401.5	391.8	391.8	375.6	346.4	310.8	281.7	259.0	239.6	239.6
82.5°	255.8	252.5	249.3	246.1	239.6	210.5	184.5	165.1	148.9	136.0	139.2
85°	142.5	142.5	136.0	136.0	123.0	106.8	93.9	80.9	71.2	68.0	68.0
87.5°	48.6	48.6	45.3	45.3	38.9	29.1	22.7	19.4	16.2	13.0	16.2
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)