

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: P643197

Luminaire Tested: GWS-SA6E-740-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643197
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39461.6 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

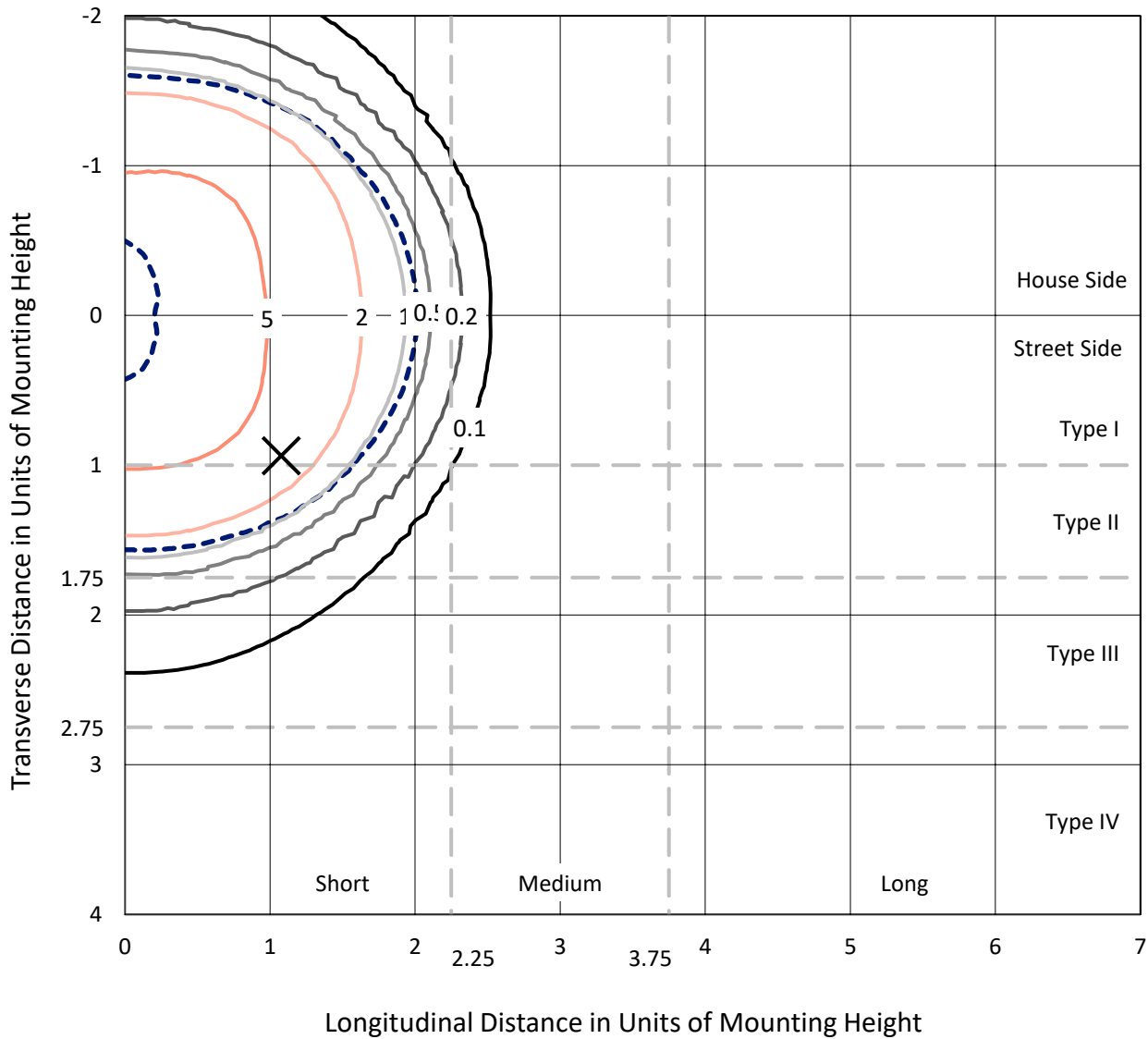
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

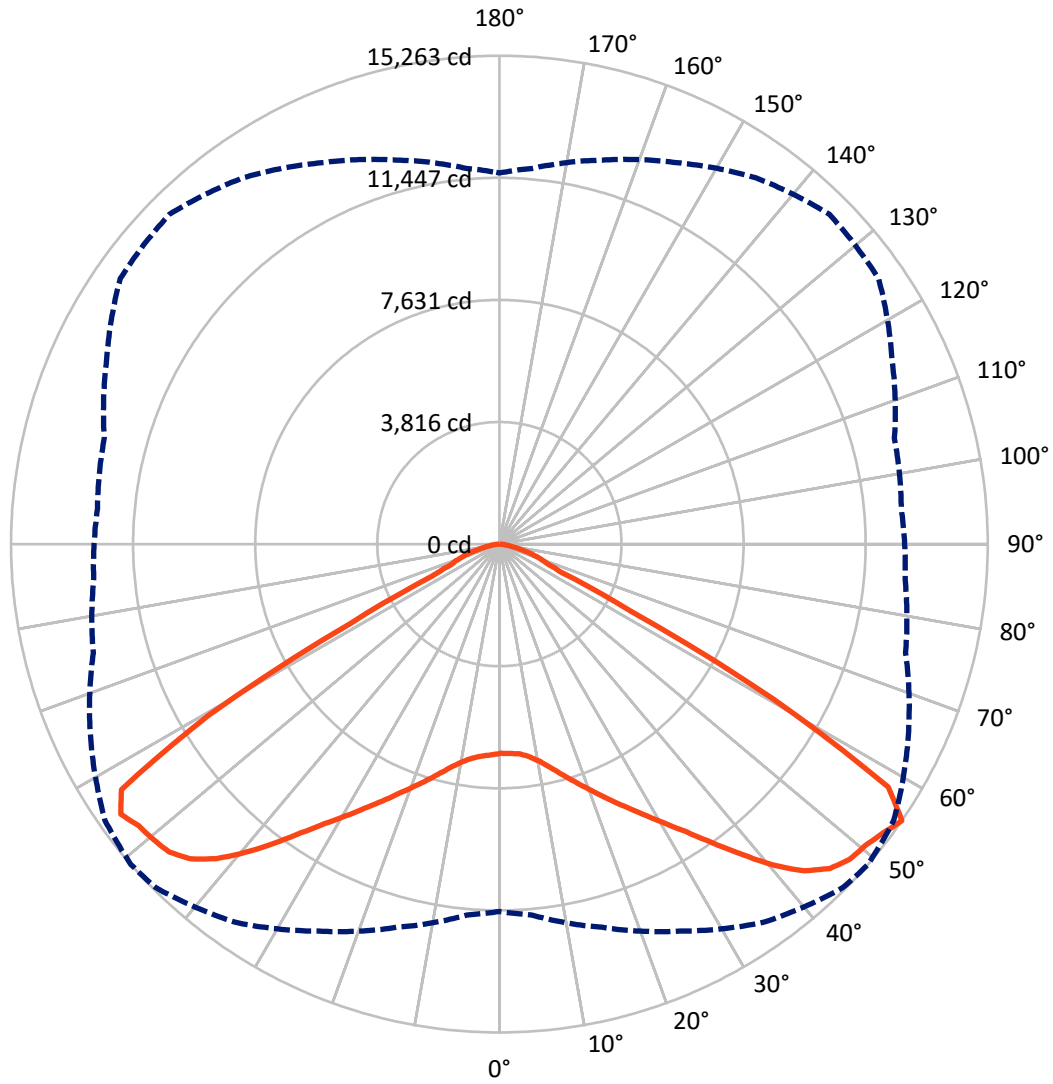
✕ Max cd
 - - - 1/2 Max cd



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	19537.2	0.0	19537.2
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	19924.4	0.0	19924.4
	% Fixture	50.5	0.0	50.5
Total	Lumens	39461.6	0.0	39461.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.7	1.6
10°-20°	2103.4	5.3
20°-30°	4006.3	10.2
30°-40°	6791.6	17.2
40°-50°	10220.8	25.9
50°-60°	11187.7	28.4
60°-70°	3537.6	9.0
70°-80°	849.0	2.2
80°-90°	127.4	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°	39461.6	100.0
0°-180°	39461.6	100.0

Coefficient of Utilization



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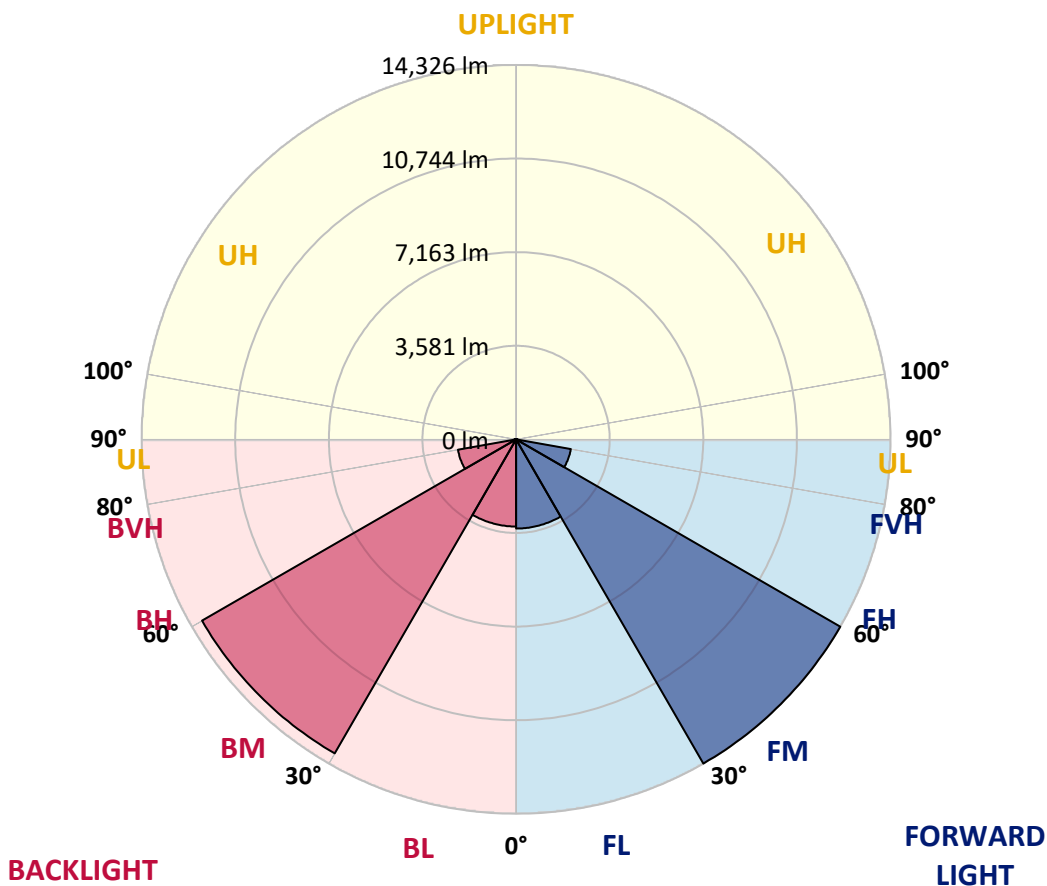
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3411.8	8.6			
FM (30°-60°)	14325.7	36.3			
FH (60°-80°)	2127.9	5.4			G2/5000
FVH (80°-90°)	59.0	0.1			G1/100
BL (0°-30°)	3335.6	8.5	B4/5000		
BM (30°-60°)	13874.5	35.2	B5		
BH (60°-80°)	2258.7	5.7	B3/2500		G2/5000
BVH (80°-90°)	68.4	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°	6537.1	6537.1	6537.1	6537.1	6537.1	6537.1	6537.1	6537.1	6537.1	6537.1	6537.1
2.5°	6440.8	6447.2	6460.0	6482.5	6505.0	6537.1	6549.9	6565.9	6562.7	6582.0	6582.0
5°	6408.7	6418.3	6437.6	6469.7	6508.2	6569.1	6585.2	6623.7	6662.2	6710.3	6726.4
7.5°	6447.2	6460.0	6482.5	6533.8	6591.6	6671.8	6703.9	6768.1	6841.9	6928.6	6963.9
10°	6521.0	6537.1	6575.6	6659.0	6752.1	6874.0	6902.9	6983.1	7101.9	7220.6	7291.2
12.5°	6604.4	6630.1	6700.7	6832.3	6970.3	7130.7	7175.7	7275.2	7403.5	7557.6	7653.8
15°	6700.7	6723.2	6832.3	7018.4	7233.4	7445.2	7496.6	7592.9	7737.3	7888.1	8022.9
17.5°	6902.9	6941.4	7069.8	7284.8	7535.1	7785.4	7843.2	7952.3	8067.8	8186.6	8314.9
20°	7178.9	7211.0	7374.6	7641.0	7936.2	8164.1	8221.9	8318.1	8372.7	8433.7	8542.8
22.5°	7454.9	7499.8	7685.9	8000.4	8347.0	8594.1	8639.1	8728.9	8690.4	8671.1	8741.7
25°	7798.3	7859.2	8042.1	8385.5	8738.5	9043.4	9078.7	9155.7	9091.5	8992.1	8988.8
27.5°	8225.1	8279.6	8469.0	8822.0	9171.8	9489.5	9556.9	9659.6	9518.4	9396.4	9309.8
30°	8732.1	8767.4	8976.0	9351.5	9710.9	10012.6	10099.2	10201.9	10096.0	9893.8	9807.2
32.5°	9322.6	9370.7	9611.4	10006.2	10327.1	10628.7	10715.4	10843.7	10728.2	10500.4	10391.3
35°	10031.8	10080.0	10333.5	10763.5	11090.8	11402.1	11463.1	11569.0	11424.6	11161.4	11074.8
37.5°	10802.0	10863.0	11183.9	11591.5	11934.9	12297.5	12300.7	12332.8	12127.4	11800.1	11703.8
40°	11668.5	11748.7	12069.6	12493.2	12907.2	13202.5	13199.3	13109.4	12762.8	12255.8	12108.2
42.5°	12525.3	12589.5	12913.6	13350.1	13764.1	14043.3	13959.8	13741.6	13241.0	12551.0	12355.3
45°	13144.7	13192.8	13533.0	14024.0	14444.4	14617.7	14466.9	14203.7	13526.6	12737.1	12448.3
47.5°	13436.7	13500.9	13844.3	14332.1	14807.1	14906.5	14726.8	14479.7	13693.5	12910.4	12522.1
50°	13279.5	13362.9	13751.2	14203.7	14739.7	14945.0	14816.7	14569.6	13870.0	13080.5	12653.7
52.5°	12871.9	12952.2	13443.2	13991.9	14598.5	15006.0	15002.8	14800.6	14072.2	13128.7	12660.1
55°	11479.2	11636.4	12400.2	13346.9	14425.2	15185.7	15262.8	15047.7	14104.2	13141.5	12727.5
57.5°	7470.9	7746.9	8472.2	9704.5	11867.5	13812.2	14332.1	14383.4	13873.2	13086.9	12740.4
60°	3119.3	3340.7	3915.2	4733.5	6521.0	8834.8	9842.5	10853.4	12072.8	12515.7	12621.6
62.5°	1938.3	1957.6	2015.4	2201.5	2798.4	3928.0	4576.3	5523.0	7336.1	8879.7	9592.2
65°	1749.0	1758.6	1771.5	1758.6	1787.5	1925.5	2098.8	2429.3	3167.4	3934.4	4845.8
67.5°	1540.4	1553.2	1562.9	1553.2	1562.9	1569.3	1588.5	1617.4	1752.2	1861.3	1944.7
70°	1245.2	1264.4	1280.5	1274.0	1312.5	1312.5	1331.8	1354.3	1421.7	1501.9	1559.7
72.5°	949.9	933.9	953.1	959.5	994.8	1014.1	1043.0	1068.6	1145.7	1193.8	1267.6
75°	616.2	600.1	629.0	645.0	693.2	718.9	744.5	770.2	824.8	856.8	927.4
77.5°	333.8	330.5	359.4	381.9	433.2	465.3	484.6	503.8	548.8	558.4	603.3
80°	192.5	192.5	211.8	227.9	259.9	295.2	314.5	330.5	362.6	372.3	391.5
82.5°	105.9	105.9	115.5	125.2	150.8	170.1	186.1	199.0	227.9	237.5	247.1
85°	51.3	48.1	54.6	61.0	70.6	80.2	89.9	96.3	118.7	125.2	138.0
87.5°	6.4	6.4	6.4	9.6	12.8	19.3	22.5	22.5	35.3	41.7	48.1
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°	6537.1	6537.1	6537.1	6537.1	6537.1	6537.1	6537.1	6537.1	6537.1	6537.1	6537.1
2.5°	6601.2	6559.5	6585.2	6594.8	6594.8	6585.2	6543.5	6530.6	6511.4	6482.5	6482.5
5°	6748.9	6716.8	6723.2	6707.1	6668.6	6620.5	6543.5	6505.0	6472.9	6437.6	6434.4
7.5°	7002.4	6960.7	6954.2	6893.3	6790.6	6687.9	6572.4	6501.8	6453.6	6408.7	6405.5
10°	7332.9	7294.4	7246.3	7124.3	6973.5	6822.7	6665.4	6569.1	6498.5	6434.4	6431.2
12.5°	7702.0	7657.0	7567.2	7387.5	7198.1	7050.5	6870.8	6723.2	6617.3	6530.6	6514.6
15°	8103.1	8038.9	7884.9	7673.1	7487.0	7329.7	7137.2	6925.4	6764.9	6626.9	6610.9
17.5°	8411.2	8327.8	8160.9	7961.9	7807.9	7650.6	7400.3	7134.0	6902.9	6729.6	6703.9
20°	8623.0	8555.6	8366.3	8218.7	8128.8	7990.8	7698.8	7397.1	7137.2	6918.9	6906.1
22.5°	8818.8	8738.5	8552.4	8465.8	8465.8	8372.7	8093.5	7737.3	7432.4	7178.9	7146.8
25°	9040.2	8953.5	8812.3	8802.7	8847.6	8805.9	8469.0	8087.1	7730.9	7445.2	7393.9
27.5°	9348.3	9252.0	9168.6	9226.3	9290.5	9245.6	8870.1	8427.2	8051.8	7763.0	7718.0
30°	9839.3	9720.5	9643.5	9714.1	9839.3	9707.7	9300.1	8831.6	8452.9	8135.2	8112.7
32.5°	10410.5	10275.7	10195.5	10307.8	10420.1	10214.7	9810.4	9361.1	8963.2	8629.4	8590.9
35°	11097.3	10927.2	10808.4	10959.3	11074.8	10872.6	10471.5	10044.7	9601.8	9255.2	9203.9
37.5°	11707.0	11501.6	11421.4	11633.2	11787.2	11655.7	11219.2	10818.1	10333.5	9954.8	9932.3
40°	12149.9	11947.7	11889.9	12239.7	12509.3	12477.2	12085.7	11626.8	11171.1	10734.6	10692.9
42.5°	12342.4	12201.2	12214.1	12685.8	13103.0	13308.4	12958.6	12467.6	12027.9	11575.4	11546.5
45°	12384.1	12297.5	12400.2	12990.7	13539.4	13959.8	13661.4	13250.6	12753.2	12316.7	12303.9
47.5°	12429.1	12380.9	12538.2	13164.0	13815.4	14303.2	14136.3	13712.7	13208.9	12782.1	12750.0
50°	12535.0	12515.7	12692.2	13285.9	13947.0	14396.3	14206.9	13786.5	13269.9	12849.5	12772.4
52.5°	12567.1	12535.0	12788.5	13475.3	14165.2	14393.1	13985.5	13436.7	12916.9	12448.3	12368.1
55°	12666.5	12608.8	12782.1	13545.9	14466.9	14579.2	13972.7	13151.1	12425.9	11787.2	11597.9
57.5°	12692.2	12628.0	12740.4	13430.3	14139.5	14040.1	12281.4	10612.7	9245.6	8536.4	8616.6
60°	12554.2	12573.5	12380.9	12303.9	11341.2	10012.6	7519.1	6010.8	4720.7	4175.1	4293.9
62.5°	9556.9	9637.1	8979.2	7807.9	6004.3	4759.2	3148.2	2445.4	2069.9	1973.6	1989.7
65°	4823.4	4932.5	4248.9	3514.0	2612.3	2111.6	1826.0	1768.2	1749.0	1726.5	1726.5
67.5°	1909.4	1941.5	1915.9	1793.9	1668.8	1623.8	1611.0	1604.6	1582.1	1569.3	1572.5
70°	1534.0	1559.7	1521.1	1444.1	1392.8	1389.6	1383.1	1370.3	1354.3	1354.3	1363.9
72.5°	1251.6	1277.2	1222.7	1174.6	1136.0	1107.2	1091.1	1081.5	1059.0	1059.0	1068.6
75°	921.0	937.1	892.1	885.7	844.0	815.1	789.5	776.6	747.7	734.9	744.5
77.5°	612.9	609.7	587.3	587.3	571.2	535.9	507.0	478.2	439.7	414.0	420.4
80°	397.9	397.9	388.3	388.3	372.3	343.4	308.1	279.2	256.7	237.5	237.5
82.5°	253.5	250.3	247.1	243.9	237.5	208.6	182.9	163.7	147.6	134.8	138.0
85°	141.2	141.2	134.8	134.8	121.9	105.9	93.1	80.2	70.6	67.4	67.4
87.5°	48.1	48.1	44.9	44.9	38.5	28.9	22.5	19.3	16.0	12.8	16.0
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)