

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: P643726

Luminaire Tested: GWS-SA6F-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-740-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY 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: 43635.1 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

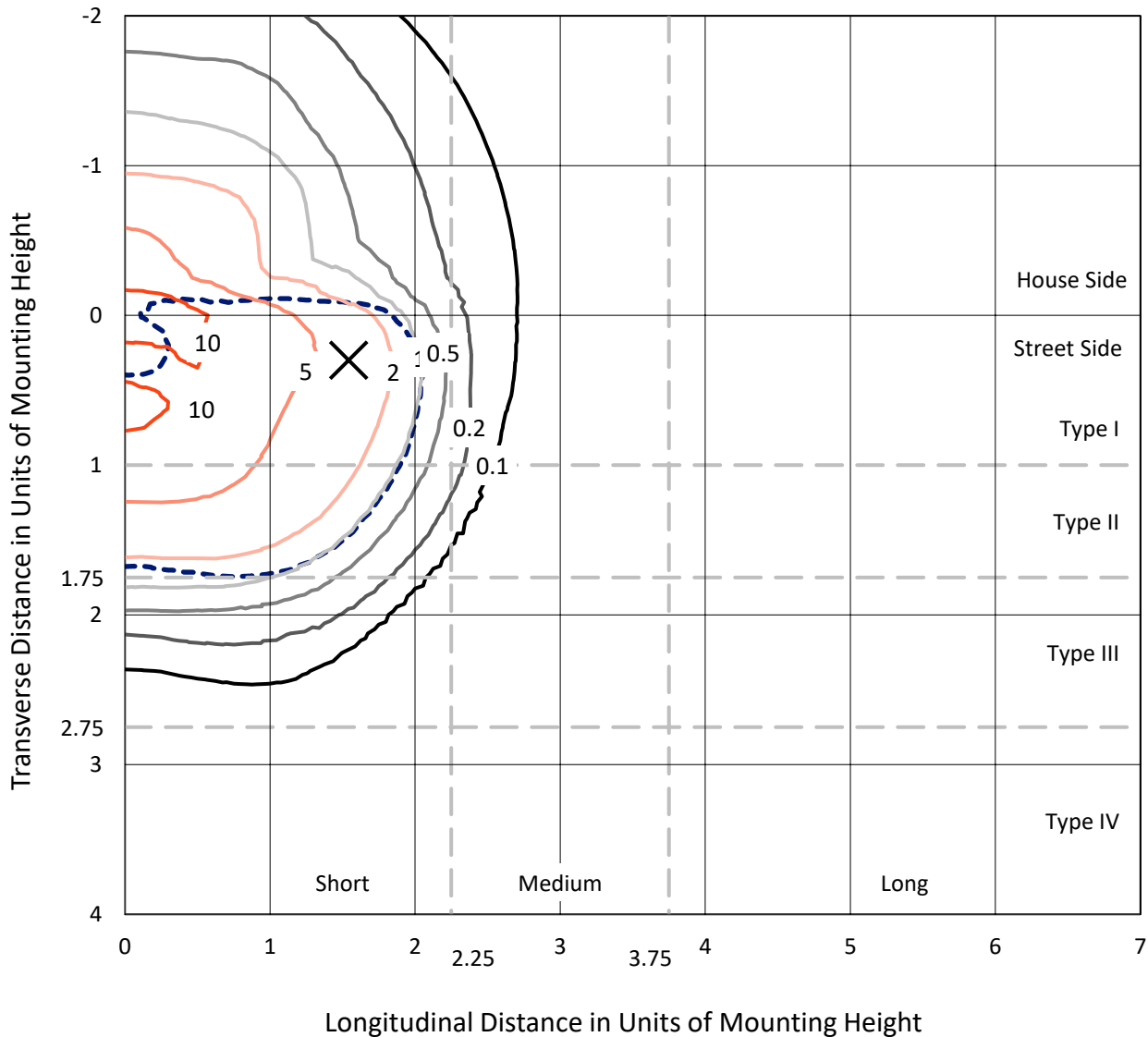
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

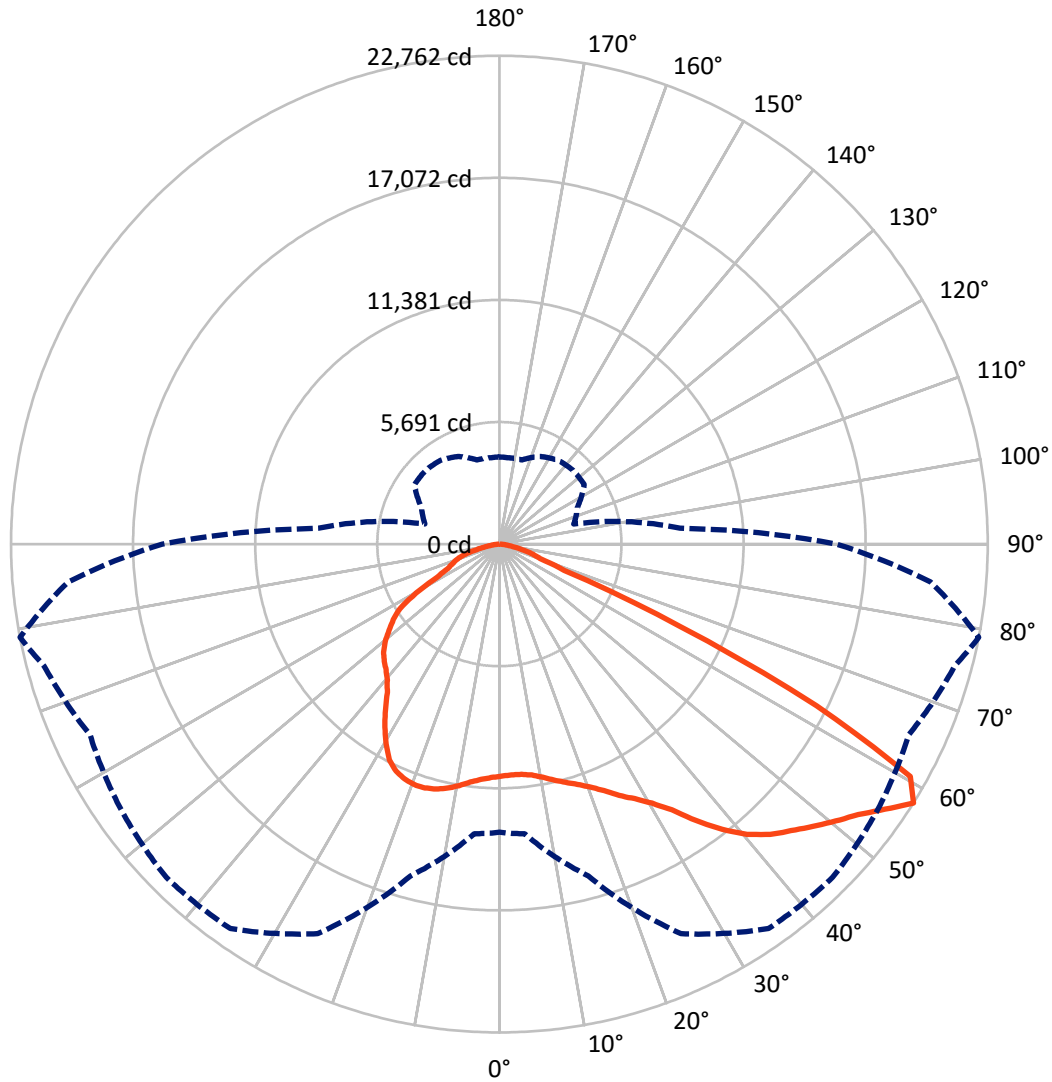
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12970.7	0.0	12970.7
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	30664.4	0.0	30664.4
	% Fixture	70.3	0.0	70.3
Total	Lumens	43635.1	0.0	43635.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1001.4	2.3
10°-20°	2783.0	6.4
20°-30°	4717.4	10.8
30°-40°	7220.5	16.5
40°-50°	9627.9	22.1
50°-60°	11119.5	25.5
60°-70°	5778.0	13.2
70°-80°	1228.3	2.8
80°-90°	159.1	0.4
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°	43635.1	100.0
0°-180°	43635.1	100.0

Coefficient of Utilization



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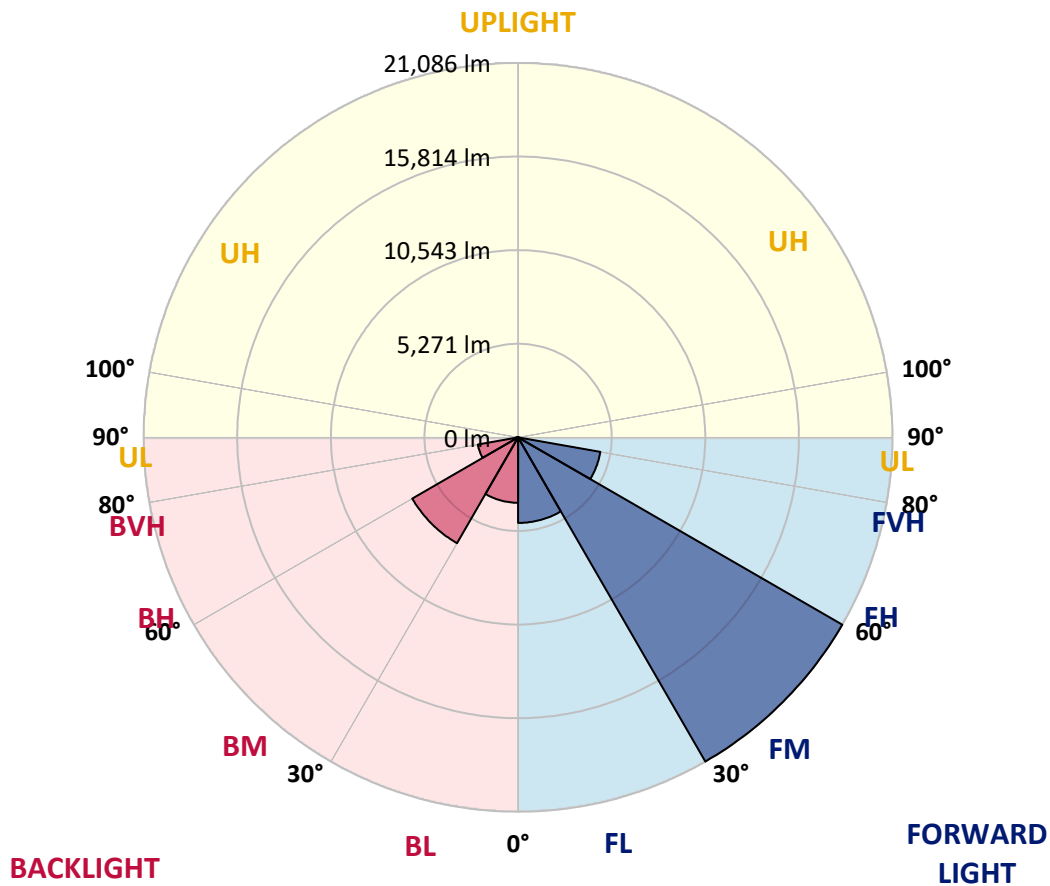
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4818.3	11.0			
FM (30°-60°)	21085.7	48.3			
FH (60°-80°)	4704.9	10.8			G2/5000
FVH (80°-90°)	55.4	0.1			G1/100
BL (0°-30°)	3683.5	8.4	B4/5000		
BM (30°-60°)	6882.2	15.8	B4/8500		
BH (60°-80°)	2301.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	103.6	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	10813.8	10813.8	10813.8	10813.8	10813.8	10813.8	10813.8	10813.8	10813.8	10813.8	10813.8
2.5°	10321.4	10300.0	10307.2	10335.7	10442.7	10521.2	10603.3	10678.2	10749.6	10771.0	10788.8
5°	9954.0	9914.7	9925.4	9971.8	10096.7	10228.7	10375.0	10553.3	10724.6	10781.7	10856.6
7.5°	9693.5	9686.4	9704.2	9775.6	9907.6	10032.5	10221.5	10474.9	10771.0	10867.3	10999.3
10°	9347.4	9333.2	9404.5	9550.8	9768.4	9968.2	10193.0	10492.7	10906.5	11049.3	11252.6
12.5°	9072.7	9065.6	9140.5	9343.9	9622.2	9939.7	10250.1	10585.5	11088.5	11284.7	11534.5
15°	9233.3	9201.2	9204.7	9347.4	9597.2	9971.8	10392.8	10753.1	11270.5	11520.2	11841.3
17.5°	9700.7	9643.6	9600.8	9625.7	9768.4	10157.3	10610.4	10977.9	11481.0	11773.5	12166.0
20°	10346.4	10314.3	10196.6	10118.1	10150.2	10492.7	10952.9	11295.4	11755.7	12083.9	12504.9
22.5°	11213.4	11134.9	10974.3	10849.5	10753.1	11020.7	11445.3	11741.4	12137.4	12479.9	12918.7
25°	12287.3	12173.1	11919.8	11723.6	11516.6	11791.3	12169.5	12394.3	12661.9	12979.4	13396.8
27.5°	13382.6	13286.2	13004.4	12740.4	12483.5	12654.7	13104.3	13232.7	13204.2	13436.1	13792.8
30°	14549.2	14427.9	14160.3	13874.9	13543.1	13653.7	14056.9	14121.1	13817.8	14010.5	14253.1
32.5°	15780.1	15662.3	15430.4	15098.6	14724.0	14766.8	14877.4	14938.1	14649.1	14759.7	14945.2
35°	17032.3	16921.7	16686.3	16358.0	16083.3	15822.9	15544.6	15787.2	15619.5	15833.6	15819.3
37.5°	18177.6	18067.0	17920.7	17667.4	17196.5	16682.7	16040.5	16340.2	16600.6	16871.8	16825.4
40°	18951.8	18876.9	18912.5	18873.3	18266.8	17250.0	16283.1	16611.3	17321.3	17785.1	17760.2
42.5°	19618.9	19544.0	19750.9	19900.8	19187.2	17774.4	16400.9	16714.8	17781.6	18505.8	18470.1
45°	19915.1	19893.7	20236.2	20710.7	20029.2	18331.0	16704.1	16928.9	18131.2	19058.8	18923.2
47.5°	19561.9	19636.8	20311.1	21113.8	20728.5	18991.0	17324.9	17382.0	18587.9	19658.2	19276.4
50°	18859.0	19023.1	19932.9	21124.5	21238.7	19736.7	18184.7	18042.0	19201.5	20296.8	19462.0
52.5°	17835.1	18006.3	19490.5	21042.5	21531.2	20600.1	19330.0	19126.6	19975.7	20935.4	19494.1
55°	15483.9	15715.8	18477.3	20856.9	21816.7	21385.0	20621.5	20207.6	20974.7	21813.1	19811.6
57.5°	13432.5	13553.8	16008.4	20032.8	21873.7	21962.9	21541.9	21049.6	21966.5	22762.1	20168.4
60°	9857.6	9886.2	12094.6	16575.7	20122.0	21627.6	21467.0	20735.6	21495.6	22002.2	18534.4
62.5°	5569.2	5572.8	7335.3	11063.5	15030.8	17628.1	17728.0	17082.3	16443.7	16593.5	12900.9
65°	2090.7	2286.9	3350.1	5437.2	8666.0	10407.1	10820.9	10970.8	9907.6	9247.6	6917.8
67.5°	1398.5	1444.9	1955.1	2797.1	3856.7	4452.5	4980.5	4994.8	3653.4	3257.3	2725.7
70°	1066.8	1113.1	1537.7	2001.5	1955.1	1805.3	1951.5	1898.0	1962.3	2015.8	2072.9
72.5°	795.6	842.0	1191.6	1412.8	1173.8	1155.9	1309.4	1455.6	1591.2	1648.3	1737.5
75°	528.0	563.7	802.7	756.4	649.3	767.1	956.2	1102.4	1180.9	1248.7	1316.5
77.5°	335.4	360.3	428.1	346.1	360.3	449.5	556.6	688.6	763.5	831.3	867.0
80°	153.4	149.8	146.3	164.1	203.4	264.0	335.4	413.9	470.9	499.5	520.9
82.5°	60.7	67.8	74.9	89.2	110.6	142.7	189.1	242.6	289.0	296.1	314.0
85°	25.0	28.5	32.1	39.2	49.9	64.2	78.5	110.6	139.1	149.8	160.5
87.5°	0.0	0.0	0.0	0.0	3.6	7.1	10.7	17.8	32.1	35.7	39.2
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°	10813.8	10813.8	10813.8	10813.8	10813.8	10813.8	10813.8	10813.8	10813.8	10813.8	10813.8
2.5°	10885.1	10838.8	10917.3	10970.8	11020.7	10967.2	10949.4	10903.0	10895.8	10895.8	10920.8
5°	10985.0	10952.9	11035.0	11067.1	11063.5	10945.8	10874.4	10781.7	10735.3	10735.3	10742.4
7.5°	11163.4	11145.6	11192.0	11142.0	11027.9	10788.8	10553.3	10357.1	10225.1	10157.3	10178.7
10°	11459.5	11438.1	11398.9	11213.4	10885.1	10389.2	9907.6	9550.8	9336.7	9215.4	9222.6
12.5°	11748.5	11712.9	11573.7	11163.4	10489.1	9700.7	9069.2	8669.6	8434.1	8291.4	8259.3
15°	12066.1	11973.3	11673.6	10906.5	9843.4	8858.7	8198.6	7766.9	7513.6	7428.0	7424.4
17.5°	12369.3	12205.2	11662.9	10449.9	9069.2	7977.4	7313.8	7046.3	7003.5	7042.7	7053.4
20°	12676.1	12412.1	11545.2	9818.4	8148.7	7099.8	6757.3	6867.9	7028.4	7135.5	7160.4
22.5°	12993.7	12583.4	11277.6	9004.9	7178.3	6507.5	6650.2	6892.9	7092.6	7235.4	7249.6
25°	13350.4	12743.9	10878.0	8009.6	6400.5	6343.4	6625.3	6882.1	7096.2	7260.3	7288.9
27.5°	13553.8	12747.5	10317.9	6985.6	6043.7	6279.2	6564.6	6807.2	7021.3	7199.7	7231.8
30°	13753.6	12651.2	9429.5	6154.3	5940.3	6204.3	6461.2	6685.9	6889.3	7064.1	7103.3
32.5°	14035.4	12562.0	8405.6	5676.3	5879.6	6132.9	6343.4	6543.2	6700.2	6778.7	6800.1
35°	14385.1	12447.8	7317.4	5469.3	5840.4	6075.8	6261.4	6368.4	6165.0	6122.2	6168.6
37.5°	14873.9	12340.8	6232.8	5380.1	5815.4	6054.4	6218.6	5943.8	5694.1	5594.2	5629.9
40°	15401.9	12280.1	5497.9	5308.8	5826.1	6075.8	6040.2	5633.4	5273.1	5062.6	5055.5
42.5°	15851.4	12187.4	5026.9	5262.4	5854.6	6157.9	5797.6	5358.7	4823.6	4698.7	4702.3
45°	16154.7	11951.9	4777.2	5212.5	5879.6	6175.7	5683.4	4980.5	4598.8	4520.3	4516.7
47.5°	16279.5	11523.8	4616.6	5134.0	5876.0	6029.5	5451.5	4823.6	4441.8	4420.4	4434.7
50°	16197.5	10820.9	4452.5	4980.5	5790.4	5876.0	5183.9	4684.4	4334.8	4452.5	4538.2
52.5°	15894.2	9911.2	4256.3	4770.1	5637.0	5701.2	5048.3	4598.8	4256.3	4413.3	4481.1
55°	15815.7	9172.6	4006.6	4495.3	5408.7	5390.8	4905.6	4556.0	4202.8	4142.1	4152.8
57.5°	15712.3	8452.0	3592.7	4003.0	4830.7	4859.2	4770.1	4506.0	4063.6	4045.8	4063.6
60°	13650.1	6479.0	3203.8	3453.6	3967.3	4120.7	4616.6	4413.3	3838.9	3764.0	3760.4
62.5°	8915.8	3924.5	2850.6	3011.2	3232.4	3410.7	4209.9	4145.7	3592.7	3546.3	3578.4
65°	4795.0	2797.1	2593.7	2690.1	2811.4	2946.9	3489.2	3692.6	3246.6	3082.5	3086.1
67.5°	2451.0	2379.7	2401.1	2468.9	2561.6	2629.4	2814.9	2993.3	2768.6	2629.4	2625.8
70°	2097.8	2154.9	2187.0	2226.3	2286.9	2276.2	2294.0	2326.2	2308.3	2240.5	2237.0
72.5°	1787.4	1876.6	1883.8	1890.9	1912.3	1862.4	1830.2	1776.7	1780.3	1791.0	1794.6
75°	1359.3	1444.9	1466.3	1455.6	1477.0	1412.8	1370.0	1316.5	1252.3	1241.6	1248.7
77.5°	884.8	952.6	984.7	977.6	988.3	938.3	916.9	859.8	784.9	756.4	756.4
80°	535.2	574.4	599.4	606.5	617.2	581.5	545.9	495.9	463.8	431.7	431.7
82.5°	324.7	349.6	367.5	367.5	378.2	338.9	310.4	274.7	260.4	231.9	231.9
85°	164.1	182.0	189.1	185.5	178.4	146.3	135.6	117.7	110.6	96.3	96.3
87.5°	39.2	49.9	49.9	35.7	35.7	17.8	10.7	3.6	0.0	0.0	0.0
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)