

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: P638850

Luminaire Tested: GWS-SA4F-760-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-760-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34956 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

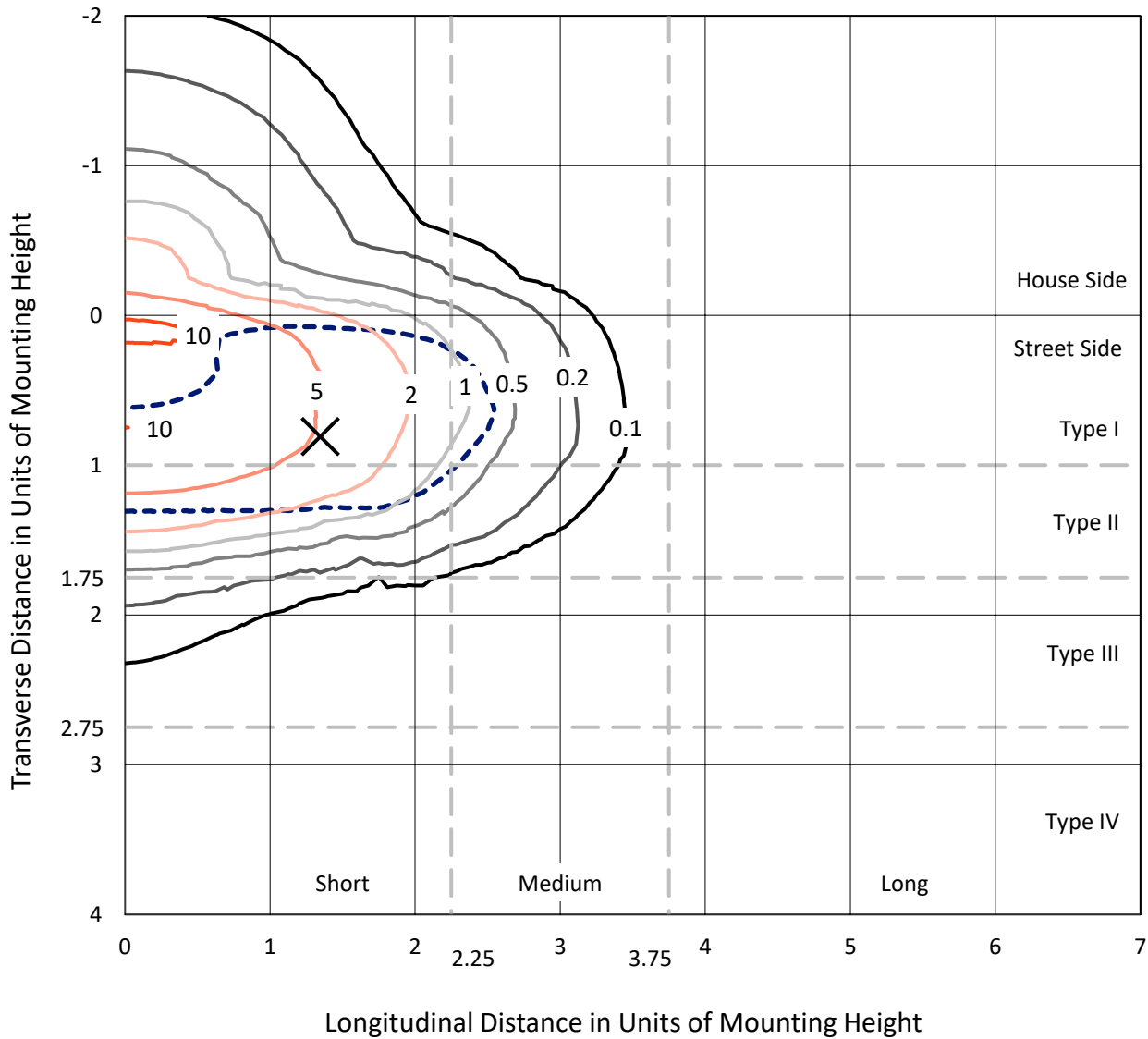
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638850
 CATALOG NUMBER: GWS-SA4F-760-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination

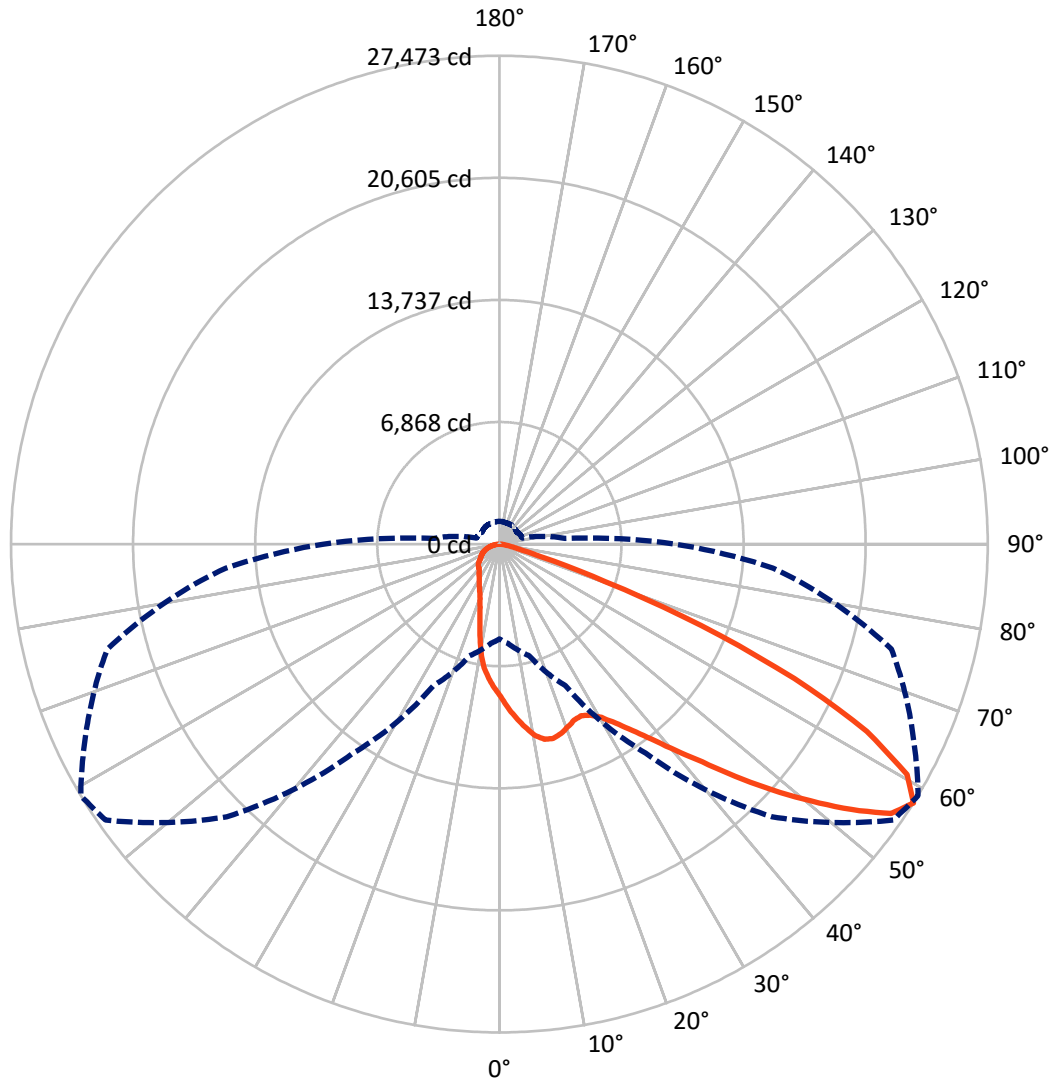
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

REPORT NUMBER: P638850
CATALOG NUMBER: GWS-SA4F-760-U-AFL-W

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5425.0	0.0	5425.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	29531.0	0.0	29531.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	34956.0	0.0	34956.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	796.8	2.3
10°-20°	2019.0	5.8
20°-30°	3272.8	9.4
30°-40°	5264.7	15.1
40°-50°	8175.6	23.4
50°-60°	8806.3	25.2
60°-70°	5110.8	14.6
70°-80°	1334.2	3.8
80°-90°	175.8	0.5
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°	34956.0	100.0
0°-180°	34956.0	100.0

Coefficient of Utilization



REPORT NUMBER: P638850

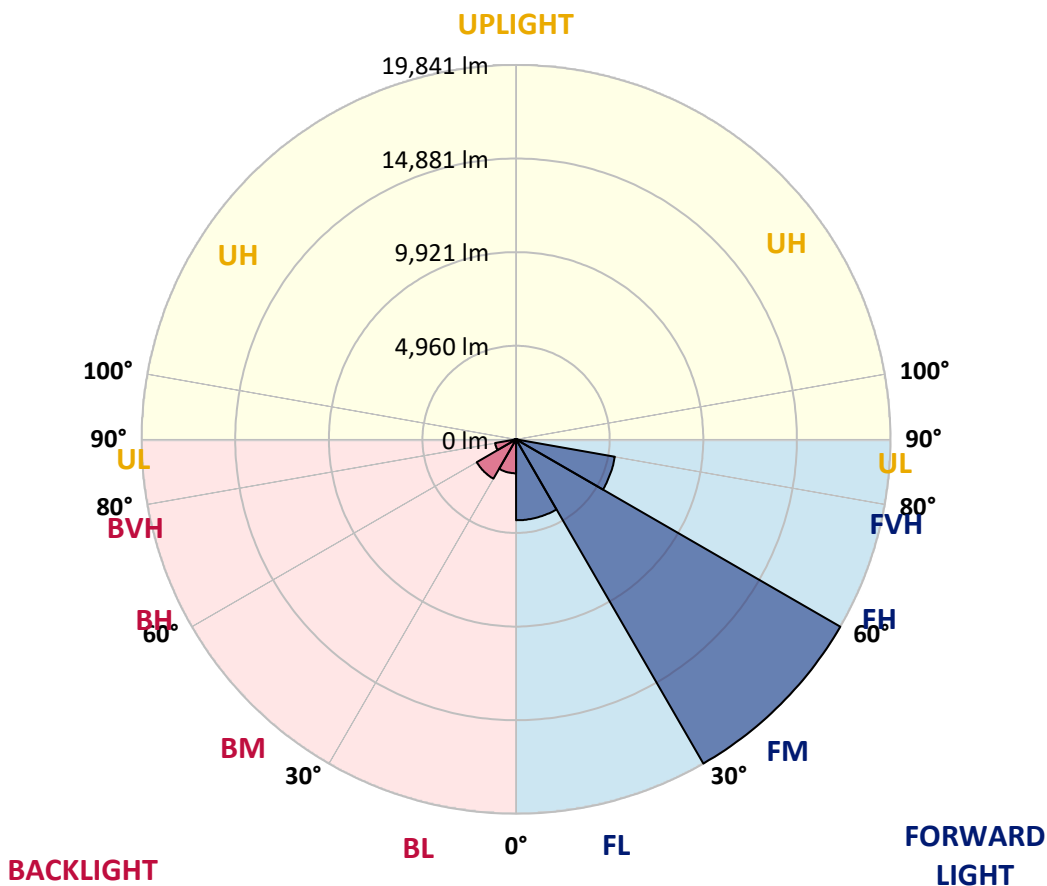
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4288.8	12.3			
FM (30°-60°)	19841.4	56.8			
FH (60°-80°)	5316.7	15.2			G3/7500
FVH (80°-90°)	84.1	0.2			G1/100
BL (0°-30°)	1799.8	5.1	B3/2500		
BM (30°-60°)	2405.2	6.9	B2/2500		
BH (60°-80°)	1128.4	3.2	B3/2500		G3/2500
BVH (80°-90°)	91.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P638850

CATALOG NUMBER: GWS-SA4F-760-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8581.0	8581.0	8581.0	8581.0	8581.0	8581.0	8581.0	8581.0	8581.0	8581.0	8581.0
2.5°	9732.7	9651.5	9708.1	9607.2	9565.3	9454.6	9311.9	9215.9	9068.2	8876.3	8709.0
5°	10699.8	10643.2	10655.5	10547.2	10451.2	10266.7	9973.8	9811.4	9560.4	9174.1	8814.8
7.5°	10670.3	10736.7	10773.6	10867.1	10894.2	10877.0	10613.7	10387.3	10111.7	9530.9	8989.5
10°	9565.3	9690.8	9804.0	10124.0	10512.8	11004.9	11066.5	10931.1	10653.0	9986.1	9198.7
12.5°	8362.0	8458.0	8558.9	8942.7	9538.3	10522.6	11189.5	11273.2	11162.4	10436.5	9434.9
15°	7771.4	7815.7	7911.6	8165.1	8640.1	9732.7	10975.4	11342.1	11541.4	10913.9	9700.7
17.5°	7746.8	7766.5	7813.2	7948.6	8278.3	9122.4	10589.1	11204.3	11839.2	11418.4	10010.8
20°	8256.2	8204.5	8175.0	8172.5	8334.9	8918.1	10215.0	10982.8	11979.4	11935.1	10343.0
22.5°	8962.4	8979.7	8915.7	8758.2	8738.5	9063.3	10028.0	10758.9	12021.3	12392.9	10650.6
25°	9964.0	10050.1	9860.6	9560.4	9412.8	9484.1	10143.6	10690.0	12016.4	12774.3	10842.5
27.5°	11132.9	11199.3	11007.4	10613.7	10308.5	10136.3	10488.2	10894.2	12058.2	13104.0	10958.2
30°	12464.2	12486.4	12223.1	11809.6	11364.2	10995.1	11061.5	11315.0	12272.3	13537.2	11093.5
32.5°	14090.9	14184.4	13785.7	13131.1	12508.5	12036.0	11831.8	11994.2	12734.9	14049.0	11302.7
35°	16155.5	16187.5	15680.6	14743.0	13862.0	13207.4	12779.2	12865.3	13438.7	14765.1	11617.7
37.5°	18102.0	18134.0	17595.1	16724.0	15464.0	14568.3	13948.1	13908.7	14339.4	15776.5	12132.0
40°	19337.4	19428.4	19187.3	18641.0	17437.6	16229.3	15387.7	15252.4	15520.6	17014.3	12848.1
42.5°	20001.8	20041.2	20036.3	20107.6	19391.5	18190.6	17011.9	16741.2	16920.8	18350.6	13571.6
45°	20006.7	20105.2	20368.5	21055.1	21087.1	20339.0	19064.2	18641.0	18476.1	19696.7	14327.1
47.5°	19111.0	19216.8	19940.3	21291.3	22288.0	22457.8	21522.6	20673.6	19979.7	20855.7	14947.2
50°	16399.1	16664.9	18043.0	20432.5	22524.2	24155.7	23867.8	22716.1	21315.9	21751.5	15336.0
52.5°	14044.1	14034.3	14883.2	18006.1	21537.4	24903.8	26136.7	24817.7	22637.4	22319.9	15434.5
55°	10283.9	10340.5	11209.2	13770.9	18904.3	24180.4	27384.4	26751.9	24153.3	22622.6	15395.1
57.5°	5332.7	5613.2	6504.0	8787.7	14364.0	21690.0	27052.2	27473.0	25693.8	22836.7	15446.8
60°	2694.6	2640.5	2960.4	4195.8	8322.6	16940.5	25004.7	26345.9	25971.9	23004.1	15478.8
62.5°	1798.9	1784.1	1695.5	1944.1	3400.9	10032.9	21315.9	23196.0	24040.1	22610.3	15070.3
65°	1557.7	1528.2	1365.8	1355.9	1651.2	4161.3	15624.0	18234.9	19868.9	20860.7	14093.3
67.5°	1402.7	1358.4	1193.5	1112.3	1186.1	1828.4	8804.9	12230.4	14671.6	17641.9	11952.4
70°	1252.6	1230.4	1065.5	947.4	940.0	1114.8	3243.4	6312.1	8977.2	12036.0	8738.5
72.5°	1122.1	1082.8	942.5	829.3	772.7	789.9	1407.6	2431.3	4646.1	7508.1	5226.9
75°	972.0	942.5	819.5	706.3	637.4	578.3	858.8	1124.6	2118.8	3568.2	2468.2
77.5°	750.6	730.9	647.2	561.1	521.7	430.6	521.7	708.7	979.4	1503.6	1284.6
80°	435.6	447.9	482.3	438.0	383.9	307.6	339.6	408.5	588.1	814.5	728.4
82.5°	219.0	233.8	312.5	253.5	228.9	179.6	201.8	241.2	307.6	450.3	285.5
85°	17.2	17.2	56.6	64.0	78.7	64.0	81.2	98.4	140.3	179.6	96.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.4	12.3	22.1	41.8	27.1
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°	8581.0	8581.0	8581.0	8581.0	8581.0	8581.0	8581.0	8581.0	8581.0	8581.0	8581.0
2.5°	8595.8	8470.3	8320.1	8197.1	8007.6	7906.7	7778.8	7621.3	7557.3	7527.8	7510.5
5°	8613.0	8391.5	8071.6	7776.3	7449.0	7190.6	6902.7	6602.5	6430.2	6388.4	6358.8
7.5°	8677.0	8366.9	7857.5	7370.3	6762.4	6198.9	5650.1	5106.3	4828.2	4722.4	4712.5
10°	8765.6	8357.1	7641.0	6831.3	5805.2	4914.3	4272.0	3846.3	3666.7	3607.6	3587.9
12.5°	8876.3	8349.7	7355.5	6083.2	4700.2	3858.6	3492.0	3423.0	3447.7	3442.7	3442.7
15°	9016.6	8359.5	7011.0	5236.7	3802.0	3349.2	3356.6	3437.8	3514.1	3526.4	3526.4
17.5°	9169.1	8349.7	6511.4	4387.7	3263.1	3228.6	3341.8	3455.0	3523.9	3533.8	3533.8
20°	9334.0	8302.9	5881.4	3587.9	3026.9	3152.4	3275.4	3364.0	3405.8	3415.7	3415.7
22.5°	9432.5	8170.0	5197.3	3036.7	2876.7	3031.8	3113.0	3204.0	3209.0	3130.2	3127.7
25°	9417.7	7921.5	4417.2	2682.3	2716.8	2852.1	2955.5	2891.5	2812.8	2768.5	2761.1
27.5°	9324.2	7547.4	3622.4	2414.1	2527.3	2679.9	2647.9	2593.7	2574.1	2524.8	2519.9
30°	9206.1	7087.3	2908.7	2204.9	2330.4	2470.7	2421.5	2416.6	2396.9	2342.7	2342.7
32.5°	9092.9	6612.3	2369.8	2049.9	2204.9	2214.8	2283.7	2288.6	2278.8	2185.2	2175.4
35°	9060.9	6137.4	2005.6	1926.8	2081.9	2077.0	2175.4	2172.9	2003.1	1872.7	1870.2
37.5°	9156.8	5655.0	1789.0	1826.0	1912.1	1976.1	2054.8	1912.1	1855.5	1776.7	1771.8
40°	9361.1	5209.6	1678.3	1766.9	1803.8	1897.3	1774.3	1784.1	1769.4	1710.3	1702.9
42.5°	9631.8	4830.7	1616.8	1747.2	1742.3	1766.9	1631.5	1670.9	1693.1	1648.8	1641.4
45°	9892.6	4500.9	1584.8	1673.4	1698.0	1555.3	1528.2	1565.1	1599.6	1582.3	1574.9
47.5°	10084.6	4215.4	1567.6	1572.5	1641.4	1483.9	1439.6	1456.8	1498.7	1506.0	1503.6
50°	10143.6	3971.8	1547.9	1488.8	1474.1	1412.5	1378.1	1373.2	1422.4	1456.8	1461.7
52.5°	10030.4	3755.3	1496.2	1415.0	1343.6	1353.5	1341.2	1316.6	1365.8	1412.5	1417.5
55°	9863.1	3632.2	1415.0	1343.6	1260.0	1299.3	1304.3	1282.1	1314.1	1346.1	1346.1
57.5°	9875.4	3703.6	1336.2	1277.2	1186.1	1237.8	1264.9	1255.0	1255.0	1279.6	1282.1
60°	9956.6	3806.9	1284.6	1193.5	1112.3	1166.4	1228.0	1218.1	1196.0	1228.0	1228.0
62.5°	9722.8	3669.1	1250.1	1112.3	1033.6	1097.5	1171.4	1166.4	1141.8	1193.5	1198.4
65°	9033.8	3300.0	1210.7	1011.4	954.8	1028.6	1092.6	1109.8	1087.7	1156.6	1168.9
67.5°	7572.0	2775.8	1134.5	915.4	876.1	945.0	1006.5	1031.1	1013.9	1095.1	1104.9
70°	5645.2	2246.8	1013.9	809.6	780.1	841.6	898.2	908.1	910.5	1006.5	1016.3
72.5°	3600.2	1747.2	853.9	691.5	669.4	716.1	757.9	797.3	814.5	905.6	903.1
75°	2008.1	1299.3	686.6	585.7	546.3	583.2	632.4	679.2	728.4	861.3	876.1
77.5°	1156.6	913.0	543.8	470.0	423.3	462.6	504.5	570.9	718.6	834.2	819.5
80°	652.1	593.1	411.0	344.5	315.0	344.5	376.5	502.0	566.0	615.2	622.6
82.5°	305.1	332.2	280.5	211.6	211.6	231.3	260.9	388.8	428.2	349.4	305.1
85°	110.7	150.1	137.8	108.3	96.0	93.5	162.4	221.5	137.8	123.0	105.8
87.5°	29.5	41.8	39.4	27.1	14.8	12.3	0.0	0.0	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)