

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: P638685

Luminaire Tested: GWS-SA4F-735-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638685
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-735-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34172.9 lumens
Efficiency: N/A
Efficacy: 151.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

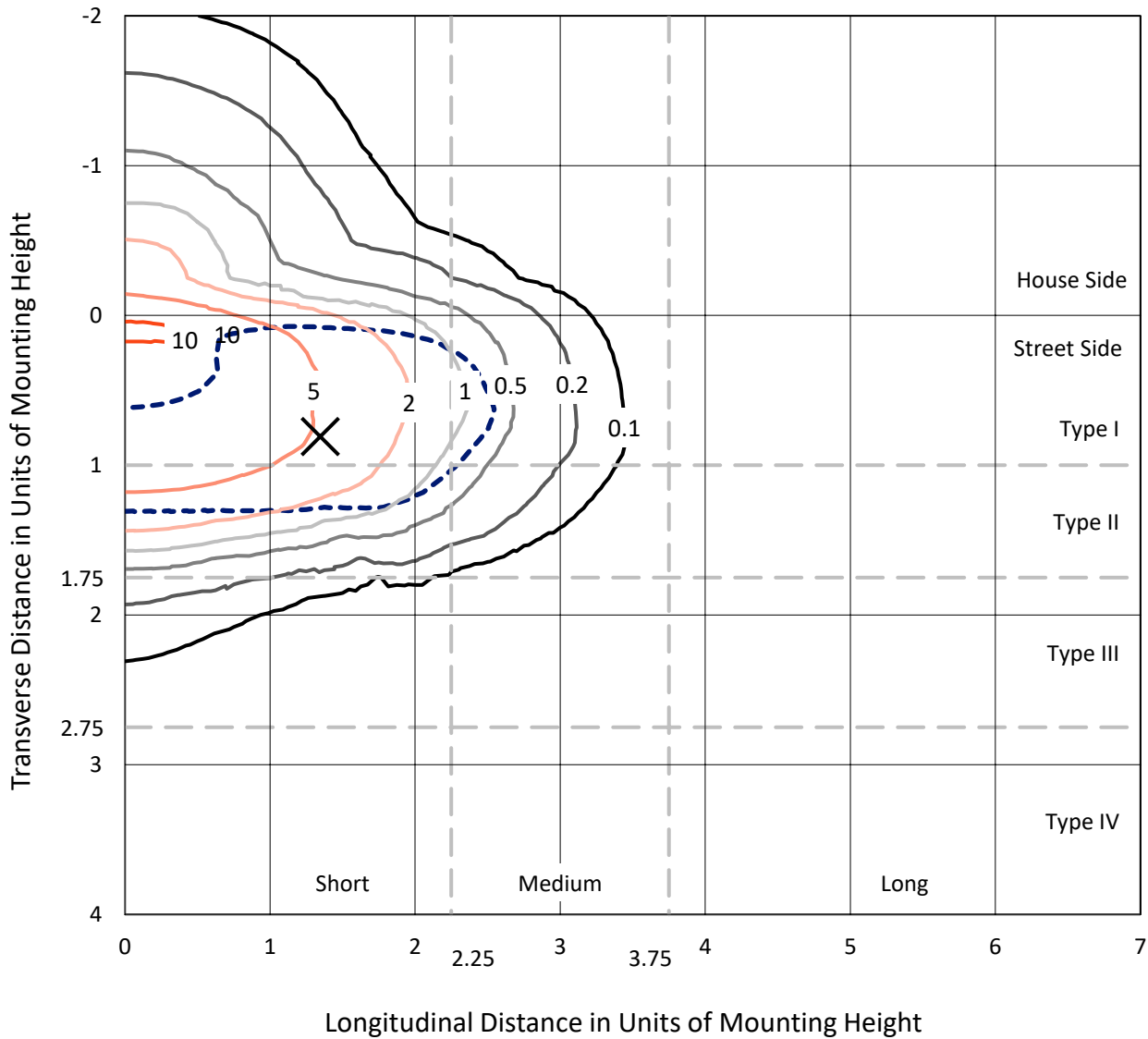
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638685
 CATALOG NUMBER: GWS-SA4F-735-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination

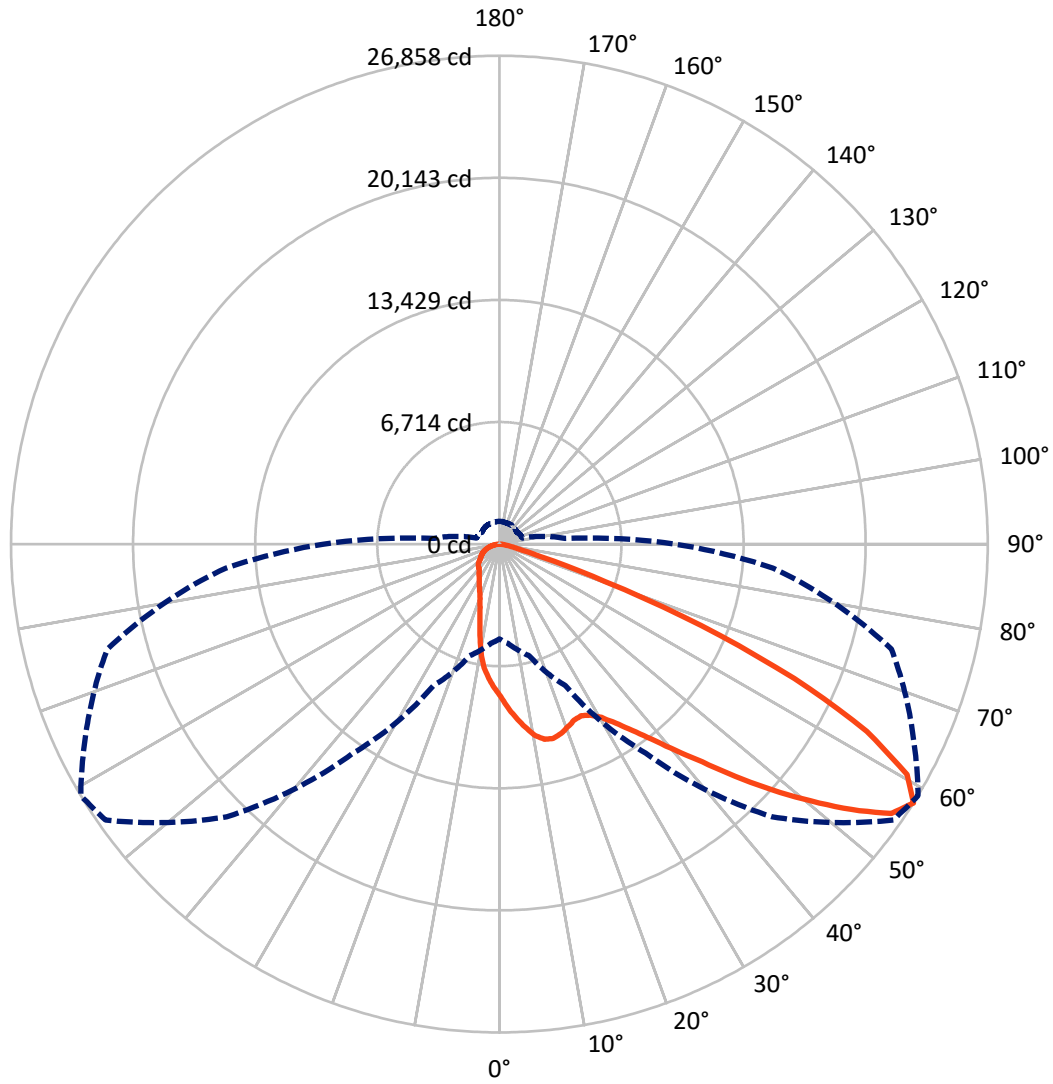
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - N/A

REPORT NUMBER: P638685
CATALOG NUMBER: GWS-SA4F-735-U-AFL-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638685

CATALOG NUMBER: GWS-SA4F-735-U-AFL-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5303.5	0.0	5303.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	28869.4	0.0	28869.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	34172.9	0.0	34172.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	778.9	2.3
10°-20°	1973.8	5.8
20°-30°	3199.5	9.4
30°-40°	5146.8	15.1
40°-50°	7992.5	23.4
50°-60°	8609.0	25.2
60°-70°	4996.3	14.6
70°-80°	1304.3	3.8
80°-90°	171.8	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°	34172.9	100.0
0°-180°	34172.9	100.0

Coefficient of Utilization



REPORT NUMBER: P638685

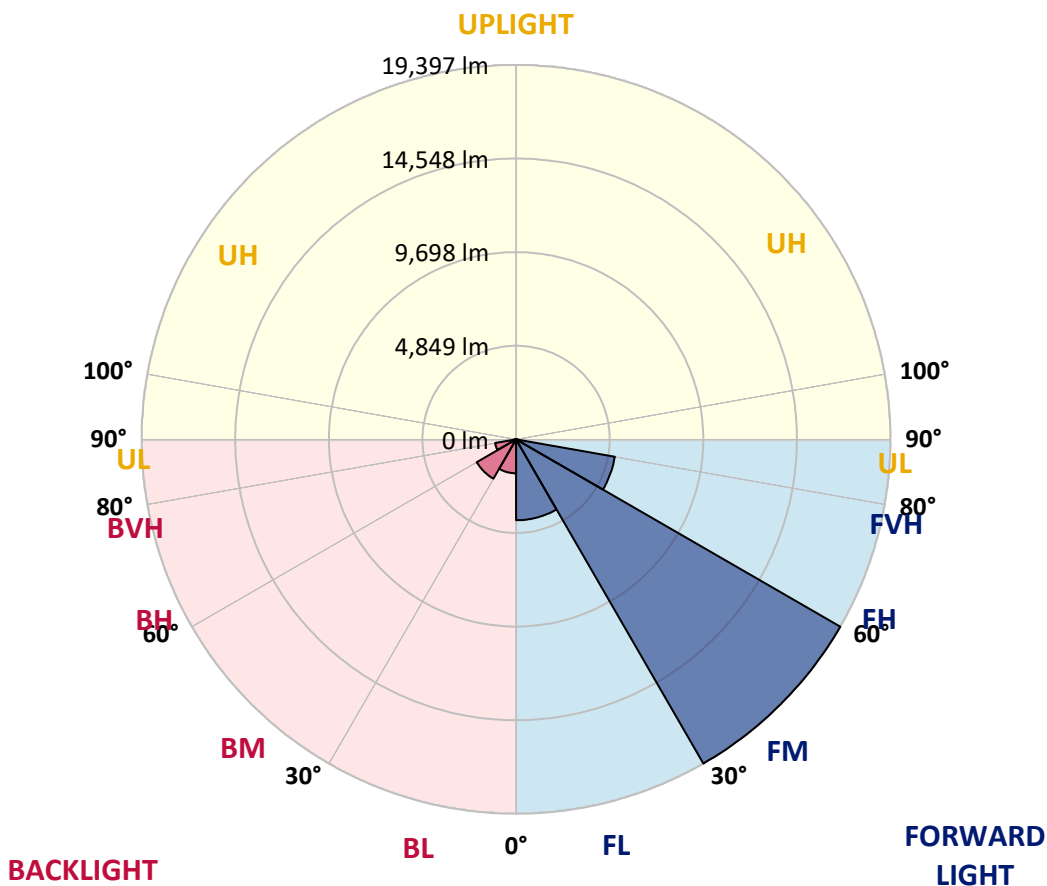
CATALOG NUMBER: GWS-SA4F-735-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4192.7	12.3			
FM (30°-60°)	19396.9	56.8			
FH (60°-80°)	5197.6	15.2			G3/7500
FVH (80°-90°)	82.3	0.2			G1/100
BL (0°-30°)	1759.5	5.1	B3/2500		
BM (30°-60°)	2351.3	6.9	B2/2500		
BH (60°-80°)	1103.1	3.2	B3/2500		G3/2500
BVH (80°-90°)	89.6	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: P638685
 CATALOG NUMBER: GWS-SA4F-735-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8388.8	8388.8	8388.8	8388.8	8388.8	8388.8	8388.8	8388.8	8388.8	8388.8	8388.8
2.5°	9514.6	9435.3	9490.6	9392.0	9351.1	9242.8	9103.3	9009.4	8865.1	8677.5	8513.9
5°	10460.1	10404.8	10416.8	10310.9	10217.1	10036.7	9750.4	9591.6	9346.2	8968.5	8617.3
7.5°	10431.2	10496.2	10532.3	10623.7	10650.1	10633.3	10375.9	10154.6	9885.1	9317.4	8788.1
10°	9351.1	9473.7	9584.4	9897.2	10277.3	10758.4	10818.5	10686.2	10414.4	9762.4	8992.6
12.5°	8174.7	8268.5	8367.1	8742.4	9324.6	10286.9	10938.8	11020.6	10912.4	10202.7	9223.6
15°	7597.3	7640.6	7734.4	7982.2	8446.5	9514.6	10729.5	11088.0	11282.9	10669.4	9483.4
17.5°	7573.2	7592.5	7638.2	7770.5	8092.9	8918.0	10351.8	10953.3	11573.9	11162.6	9786.5
20°	8071.2	8020.7	7991.8	7989.4	8148.2	8718.3	9986.2	10736.8	11711.1	11667.8	10111.3
22.5°	8761.7	8778.5	8715.9	8562.0	8542.7	8860.3	9803.3	10517.8	11752.0	12115.2	10412.0
25°	9740.8	9825.0	9639.7	9346.2	9201.9	9271.7	9916.4	10450.5	11747.2	12488.1	10599.6
27.5°	10883.5	10948.5	10760.8	10375.9	10077.6	9909.2	10253.2	10650.1	11788.1	12810.5	10712.7
30°	12185.0	12206.6	11949.2	11545.1	11109.6	10748.8	10813.7	11061.5	11997.4	13233.9	10845.0
32.5°	13775.2	13866.6	13476.9	12836.9	12228.3	11766.4	11566.7	11725.5	12449.6	13734.3	11049.5
35°	15793.6	15824.9	15329.3	14412.7	13551.4	12911.5	12492.9	12577.1	13137.7	14434.4	11357.4
37.5°	17696.5	17727.8	17200.9	16349.3	15117.6	14241.9	13635.7	13597.2	14018.2	15423.1	11860.2
40°	18904.2	18993.2	18757.4	18223.4	17047.0	15865.8	15043.0	14910.7	15172.9	16633.2	12560.3
42.5°	19553.7	19592.2	19587.4	19657.2	18957.1	17783.1	16630.8	16366.1	16541.8	17939.5	13267.6
45°	19558.5	19654.8	19912.2	20583.4	20614.7	19883.3	18637.2	18223.4	18062.2	19255.4	14006.1
47.5°	18682.9	18786.3	19493.6	20814.3	21788.7	21954.6	21040.5	20210.5	19532.1	20388.5	14612.4
50°	16031.8	16291.6	17638.8	19974.7	22019.6	23614.6	23333.1	22207.2	20838.4	21264.2	14992.5
52.5°	13729.5	13719.9	14549.8	17602.7	21054.9	24345.9	25551.2	24261.7	22130.3	21819.9	15088.7
55°	10053.5	10108.9	10958.1	13462.4	18480.8	23638.7	26770.9	26152.6	23612.2	22115.8	15050.2
57.5°	5213.2	5487.5	6358.3	8590.8	14042.2	21204.1	26446.1	26857.5	25118.2	22325.1	15100.7
60°	2634.3	2581.3	2894.1	4101.8	8136.2	16561.0	24444.6	25755.7	25390.0	22488.7	15132.0
62.5°	1758.6	1744.2	1657.5	1900.5	3324.7	9808.1	20838.4	22676.4	23501.5	22103.8	14732.7
65°	1522.8	1494.0	1335.2	1325.6	1614.2	4068.1	15273.9	17826.4	19423.8	20393.3	13777.6
67.5°	1371.3	1328.0	1166.8	1087.4	1159.6	1787.5	8607.7	11956.5	14342.9	17246.6	11684.6
70°	1224.5	1202.9	1041.7	926.2	919.0	1089.8	3170.7	6170.7	8776.1	11766.4	8542.7
72.5°	1097.0	1058.5	921.4	810.7	755.4	772.2	1376.1	2376.9	4542.0	7339.9	5109.8
75°	950.3	921.4	801.1	690.4	623.1	565.3	839.6	1099.4	2071.3	3488.3	2412.9
77.5°	733.7	714.5	632.7	548.5	510.0	421.0	510.0	692.8	957.5	1469.9	1255.8
80°	425.8	437.8	471.5	428.2	375.3	300.7	332.0	399.4	575.0	796.3	712.1
82.5°	214.1	228.5	305.5	247.8	223.7	175.6	197.3	235.8	300.7	440.2	279.1
85°	16.8	16.8	55.3	62.5	77.0	62.5	79.4	96.2	137.1	175.6	93.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.2	12.0	21.7	40.9	26.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638685
 CATALOG NUMBER: GWS-SA4F-735-U-AFL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8388.8	8388.8	8388.8	8388.8	8388.8	8388.8	8388.8	8388.8	8388.8	8388.8	8388.8
2.5°	8403.2	8280.5	8133.8	8013.5	7828.2	7729.6	7604.5	7450.5	7388.0	7359.1	7342.3
5°	8420.0	8203.5	7890.8	7602.1	7282.1	7029.5	6748.1	6454.6	6286.2	6245.3	6216.4
7.5°	8482.6	8179.5	7681.5	7205.1	6610.9	6060.0	5523.5	4991.9	4720.0	4616.6	4607.0
10°	8569.2	8169.8	7469.8	6678.3	5675.1	4804.2	4176.3	3760.1	3584.5	3526.8	3507.5
12.5°	8677.5	8162.6	7190.7	5947.0	4594.9	3772.2	3413.7	3346.4	3370.4	3365.6	3365.6
15°	8814.6	8172.2	6853.9	5119.4	3716.8	3274.2	3281.4	3360.8	3435.4	3447.4	3447.4
17.5°	8963.7	8162.6	6365.5	4289.4	3190.0	3156.3	3267.0	3377.6	3445.0	3454.6	3454.6
20°	9124.9	8116.9	5749.7	3507.5	2959.0	3081.7	3202.0	3288.6	3329.5	3339.1	3339.1
22.5°	9221.1	7987.0	5080.9	2968.7	2812.3	2963.9	3043.2	3132.3	3137.1	3060.1	3057.7
25°	9206.7	7744.0	4318.3	2622.2	2655.9	2788.2	2889.3	2826.7	2749.7	2706.4	2699.2
27.5°	9115.3	7378.4	3541.2	2360.0	2470.7	2619.8	2588.6	2535.6	2516.4	2468.3	2463.5
30°	8999.8	6928.5	2843.6	2155.5	2278.2	2415.3	2367.2	2362.4	2343.2	2290.3	2290.3
32.5°	8889.2	6464.2	2316.7	2004.0	2155.5	2165.2	2232.5	2237.3	2227.7	2136.3	2126.7
35°	8857.9	5999.9	1960.7	1883.7	2035.2	2030.4	2126.7	2124.3	1958.3	1830.8	1828.4
37.5°	8951.7	5528.4	1749.0	1785.0	1869.2	1931.8	2008.8	1869.2	1813.9	1736.9	1732.1
40°	9151.4	5092.9	1640.7	1727.3	1763.4	1854.8	1734.5	1744.2	1729.7	1672.0	1664.8
42.5°	9416.0	4722.4	1580.6	1708.1	1703.3	1727.3	1595.0	1633.5	1655.1	1611.8	1604.6
45°	9671.0	4400.1	1549.3	1635.9	1660.0	1520.4	1494.0	1530.0	1563.7	1546.9	1539.7
47.5°	9858.7	4121.0	1532.4	1537.3	1604.6	1450.7	1407.3	1424.2	1465.1	1472.3	1469.9
50°	9916.4	3882.8	1513.2	1455.5	1441.0	1380.9	1347.2	1342.4	1390.5	1424.2	1429.0
52.5°	9805.7	3671.1	1462.7	1383.3	1313.5	1323.1	1311.1	1287.1	1335.2	1380.9	1385.7
55°	9642.1	3550.9	1383.3	1313.5	1231.7	1270.2	1275.0	1253.4	1284.7	1315.9	1315.9
57.5°	9654.2	3620.6	1306.3	1248.6	1159.6	1210.1	1236.5	1226.9	1226.9	1251.0	1253.4
60°	9733.6	3721.7	1255.8	1166.8	1087.4	1140.3	1200.5	1190.8	1169.2	1200.5	1200.5
62.5°	9505.0	3586.9	1222.1	1087.4	1010.4	1073.0	1145.1	1140.3	1116.3	1166.8	1171.6
65°	8831.4	3226.1	1183.6	988.8	933.4	1005.6	1068.1	1085.0	1063.3	1130.7	1142.7
67.5°	7402.4	2713.7	1109.0	894.9	856.4	923.8	983.9	1008.0	991.2	1070.5	1080.2
70°	5518.7	2196.4	991.2	791.5	762.6	822.8	878.1	887.7	890.1	983.9	993.6
72.5°	3519.6	1708.1	834.8	676.0	654.4	700.1	741.0	779.5	796.3	885.3	882.9
75°	1963.1	1270.2	671.2	572.6	534.1	570.2	618.3	664.0	712.1	842.0	856.4
77.5°	1130.7	892.5	531.7	459.5	413.8	452.3	493.2	558.1	702.5	815.5	801.1
80°	637.5	579.8	401.8	336.8	307.9	336.8	368.1	490.8	553.3	601.4	608.6
82.5°	298.3	324.8	274.3	206.9	206.9	226.1	255.0	380.1	418.6	341.6	298.3
85°	108.3	146.7	134.7	105.9	93.8	91.4	158.8	216.5	134.7	120.3	103.4
87.5°	28.9	40.9	38.5	26.5	14.4	12.0	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)