

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: P642810

Luminaire Tested: GWS-SA6D-760-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642810
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-SA6D-760-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36802.3 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

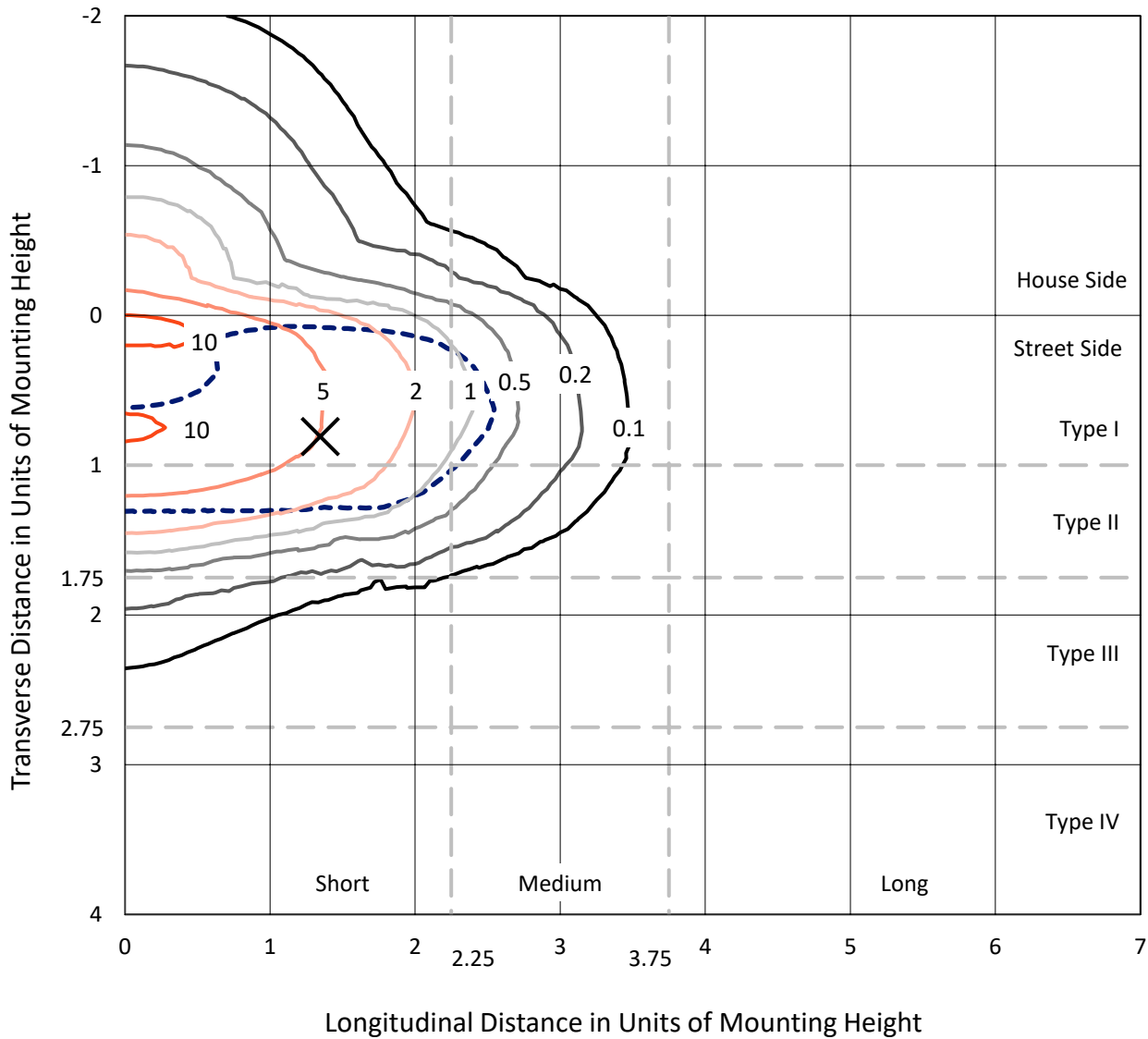
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P642810
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Iso-Footcandle Lines of Horizontal Illumination

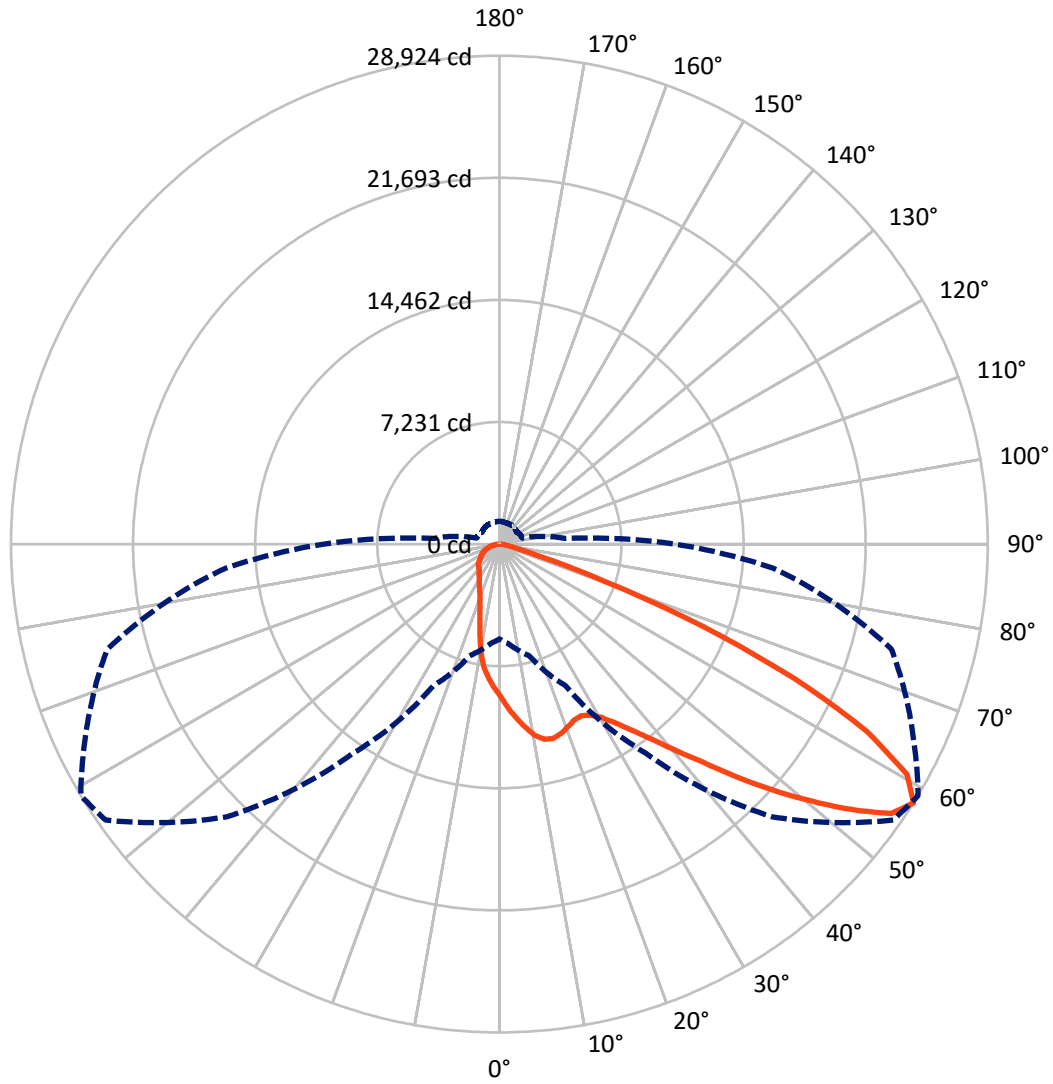
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

REPORT NUMBER: P642810
CATALOG NUMBER: GWS-SA6D-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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CATALOG NUMBER: GWS-SA6D-760-U-AFL-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5711.5	0.0	5711.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	31090.8	0.0	31090.8
	% Fixture	84.5	0.0	84.5
Total	Lumens	36802.3	0.0	36802.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	838.9	2.3
10°-20°	2125.6	5.8
20°-30°	3445.7	9.4
30°-40°	5542.8	15.1
40°-50°	8607.5	23.4
50°-60°	9271.4	25.2
60°-70°	5380.8	14.6
70°-80°	1404.7	3.8
80°-90°	185.0	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°	36802.3	100.0
0°-180°	36802.3	100.0

Coefficient of Utilization



REPORT NUMBER: P642810

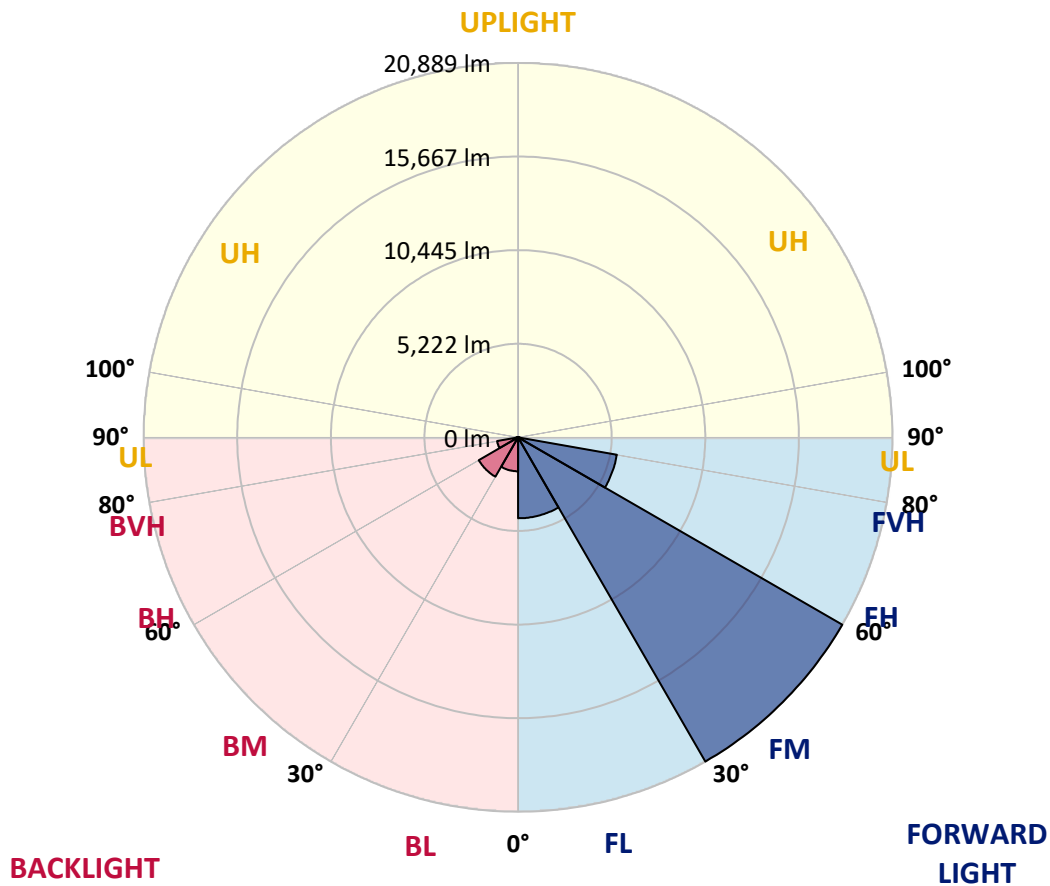
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4515.3	12.3			
FM (30°-60°)	20889.4	56.8			
FH (60°-80°)	5597.5	15.2			G3/7500
FVH (80°-90°)	88.6	0.2			G1/100
BL (0°-30°)	1894.9	5.1	B3/2500		
BM (30°-60°)	2532.3	6.9	B3/5000		
BH (60°-80°)	1188.0	3.2	B3/2500		G3/2500
BVH (80°-90°)	96.4	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: P642810
 CATALOG NUMBER: GWS-SA6D-760-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9034.2	9034.2	9034.2	9034.2	9034.2	9034.2	9034.2	9034.2	9034.2	9034.2	9034.2
2.5°	10246.7	10161.2	10220.8	10114.6	10070.6	9954.0	9803.7	9702.7	9547.2	9345.1	9169.0
5°	11264.9	11205.3	11218.3	11104.3	11003.3	10808.9	10500.6	10329.6	10065.4	9658.6	9280.4
7.5°	11233.8	11303.8	11342.7	11441.1	11469.6	11451.5	11174.3	10935.9	10645.7	10034.3	9464.3
10°	10070.6	10202.7	10321.9	10658.7	11068.0	11586.2	11651.0	11508.5	11215.7	10513.6	9684.5
12.5°	8803.6	8904.7	9010.9	9415.1	10042.1	11078.4	11780.5	11868.6	11752.0	10987.7	9933.2
15°	8181.8	8228.5	8329.5	8596.4	9096.4	10246.7	11555.1	11941.1	12151.0	11490.3	10213.1
17.5°	8155.9	8176.7	8225.9	8368.4	8715.6	9604.2	11148.3	11796.1	12464.5	12021.5	10539.5
20°	8692.2	8637.8	8606.7	8604.2	8775.1	9389.2	10754.5	11562.9	12612.2	12565.5	10889.3
22.5°	9435.8	9453.9	9386.6	9220.8	9200.0	9542.0	10557.6	11327.1	12656.2	13047.4	11213.1
25°	10490.3	10581.0	10381.5	10065.4	9909.9	9985.1	10679.4	11254.6	12651.0	13449.0	11415.2
27.5°	11720.9	11790.9	11588.8	11174.3	10853.0	10671.6	11042.1	11469.6	12695.1	13796.2	11537.0
30°	13122.6	13145.9	12868.7	12433.4	11964.5	11575.8	11645.8	11912.6	12920.5	14252.2	11679.5
32.5°	14835.1	14933.6	14513.8	13824.7	13169.2	12671.8	12456.7	12627.7	13407.6	14791.1	11899.7
35°	17008.8	17042.5	16508.8	15521.7	14594.2	13905.0	13454.2	13544.9	14148.5	15545.0	12231.3
37.5°	19058.2	19091.8	18524.4	17607.3	16280.8	15337.7	14684.8	14643.4	15096.8	16609.8	12772.8
40°	20358.8	20454.6	20200.7	19625.5	18358.6	17086.5	16200.5	16058.0	16340.4	17913.0	13526.7
42.5°	21058.3	21099.7	21094.5	21169.7	20415.8	19151.4	17910.4	17625.4	17814.6	19319.8	14288.4
45°	21063.5	21167.1	21444.3	22167.2	22200.8	21413.2	20071.2	19625.5	19452.0	20737.0	15083.8
47.5°	20120.4	20231.8	20993.5	22415.9	23465.2	23643.9	22659.4	21765.6	21035.0	21957.3	15736.7
50°	17265.3	17545.1	18996.0	21511.7	23713.9	25431.6	25128.5	23916.0	22441.8	22900.4	16146.1
52.5°	14785.9	14775.5	15669.3	18957.1	22675.0	26219.2	27517.2	26128.5	23833.1	23498.8	16249.7
55°	10827.1	10886.7	11801.2	14498.3	19902.8	25457.5	28830.8	28164.9	25429.0	23817.5	16208.2
57.5°	5614.3	5909.7	6847.6	9251.9	15122.7	22835.6	28481.0	28924.0	27050.9	24042.9	16262.6
60°	2837.0	2780.0	3116.8	4417.4	8762.2	17835.3	26325.4	27737.4	27343.6	24219.1	16296.3
62.5°	1893.9	1878.4	1785.1	2046.8	3580.5	10562.8	22441.8	24421.2	25309.8	23804.6	15866.3
65°	1640.0	1608.9	1437.9	1427.5	1738.4	4381.1	16449.2	19198.1	20918.4	21962.5	14837.7
67.5°	1476.8	1430.1	1256.6	1171.1	1248.8	1925.0	9270.0	12876.4	15446.5	18573.7	12583.7
70°	1318.7	1295.4	1121.8	997.5	989.7	1173.6	3414.7	6645.5	9451.4	12671.8	9200.0
72.5°	1181.4	1140.0	992.3	873.1	813.5	831.7	1482.0	2559.7	4891.5	7904.6	5502.9
75°	1023.4	992.3	862.7	743.6	671.0	608.8	904.2	1184.0	2230.7	3756.7	2598.6
77.5°	790.2	769.5	681.4	590.7	549.3	453.4	549.3	746.2	1031.2	1583.0	1352.4
80°	458.6	471.5	507.8	461.2	404.2	323.9	357.5	430.1	619.2	857.6	766.9
82.5°	230.6	246.1	329.0	266.9	240.9	189.1	212.4	253.9	323.9	474.1	300.5
85°	18.1	18.1	59.6	67.4	82.9	67.4	85.5	103.6	147.7	189.1	101.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.8	13.0	23.3	44.0	28.5
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: P642810
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9034.2	9034.2	9034.2	9034.2	9034.2	9034.2	9034.2	9034.2	9034.2	9034.2	9034.2
2.5°	9049.8	8917.6	8759.6	8630.1	8430.6	8324.3	8189.6	8023.8	7956.4	7925.4	7907.2
5°	9067.9	8834.7	8497.9	8187.0	7842.4	7570.4	7267.3	6951.2	6769.8	6725.8	6694.7
7.5°	9135.3	8808.8	8272.5	7759.5	7119.6	6526.3	5948.5	5376.0	5083.2	4971.8	4961.4
10°	9228.5	8798.5	8044.5	7192.1	6111.8	5173.9	4497.7	4049.5	3860.3	3798.2	3777.4
12.5°	9345.1	8790.7	7744.0	6404.5	4948.5	4062.4	3676.4	3603.8	3629.8	3624.6	3624.6
15°	9492.8	8801.1	7381.3	5513.3	4002.8	3526.1	3533.9	3619.4	3699.7	3712.7	3712.7
17.5°	9653.4	8790.7	6855.3	4619.5	3435.4	3399.2	3518.3	3637.5	3710.1	3720.4	3720.4
20°	9827.0	8741.5	6192.1	3777.4	3186.7	3318.9	3448.4	3541.7	3585.7	3596.1	3596.1
22.5°	9930.7	8601.6	5471.8	3197.1	3028.7	3191.9	3277.4	3373.3	3378.4	3295.5	3292.9
25°	9915.1	8339.9	4650.5	2824.0	2860.3	3002.8	3111.6	3044.2	2961.3	2914.7	2906.9
27.5°	9816.7	7946.1	3813.7	2541.6	2660.8	2821.4	2787.7	2730.7	2710.0	2658.2	2653.0
30°	9692.3	7461.6	3062.4	2321.4	2453.5	2601.2	2549.4	2544.2	2523.5	2466.5	2466.5
32.5°	9573.1	6961.6	2495.0	2158.2	2321.4	2331.7	2404.3	2409.5	2399.1	2300.7	2290.3
35°	9539.4	6461.5	2111.5	2028.6	2191.8	2186.7	2290.3	2287.7	2108.9	1971.6	1969.0
37.5°	9640.5	5953.7	1883.5	1922.4	2013.1	2080.4	2163.3	2013.1	1953.5	1870.6	1865.4
40°	9855.5	5484.8	1766.9	1860.2	1899.1	1997.5	1868.0	1878.4	1862.8	1800.6	1792.9
42.5°	10140.5	5085.8	1702.2	1839.5	1834.3	1860.2	1717.7	1759.2	1782.5	1735.9	1728.1
45°	10415.1	4738.6	1668.5	1761.8	1787.7	1637.4	1608.9	1647.8	1684.0	1665.9	1658.1
47.5°	10617.2	4438.1	1650.4	1655.5	1728.1	1562.3	1515.6	1533.8	1577.8	1585.6	1583.0
50°	10679.4	4181.6	1629.6	1567.5	1551.9	1487.1	1450.9	1445.7	1497.5	1533.8	1539.0
52.5°	10560.2	3953.6	1575.2	1489.7	1414.6	1425.0	1412.0	1386.1	1437.9	1487.1	1492.3
55°	10384.1	3824.1	1489.7	1414.6	1326.5	1368.0	1373.1	1349.8	1383.5	1417.2	1417.2
57.5°	10397.0	3899.2	1406.8	1344.6	1248.8	1303.2	1331.7	1321.3	1321.3	1347.2	1349.8
60°	10482.5	4008.0	1352.4	1256.6	1171.1	1228.1	1292.8	1282.5	1259.1	1292.8	1292.8
62.5°	10236.4	3862.9	1316.1	1171.1	1088.1	1155.5	1233.2	1228.1	1202.1	1256.6	1261.7
65°	9510.9	3474.3	1274.7	1064.8	1005.2	1083.0	1150.3	1168.5	1145.1	1217.7	1230.6
67.5°	7972.0	2922.5	1194.4	963.8	922.3	994.9	1059.7	1085.6	1067.4	1152.9	1163.3
70°	5943.4	2365.4	1067.4	852.4	821.3	886.1	945.7	956.0	958.6	1059.7	1070.0
72.5°	3790.4	1839.5	899.0	728.0	704.7	753.9	798.0	839.4	857.6	953.4	950.8
75°	2114.1	1368.0	722.8	616.6	575.2	614.0	665.8	715.1	766.9	906.8	922.3
77.5°	1217.7	961.2	572.6	494.8	445.6	487.1	531.1	601.1	756.5	878.3	862.7
80°	686.6	624.4	432.7	362.7	331.6	362.7	396.4	528.5	595.9	647.7	655.5
82.5°	321.3	349.8	295.4	222.8	222.8	243.5	274.6	409.4	450.8	367.9	321.3
85°	116.6	158.0	145.1	114.0	101.0	98.5	171.0	233.2	145.1	129.5	111.4
87.5°	31.1	44.0	41.5	28.5	15.5	13.0	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)