

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: P642840

Luminaire Tested: GWS-SA6D-760-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-760-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36851.5 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

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

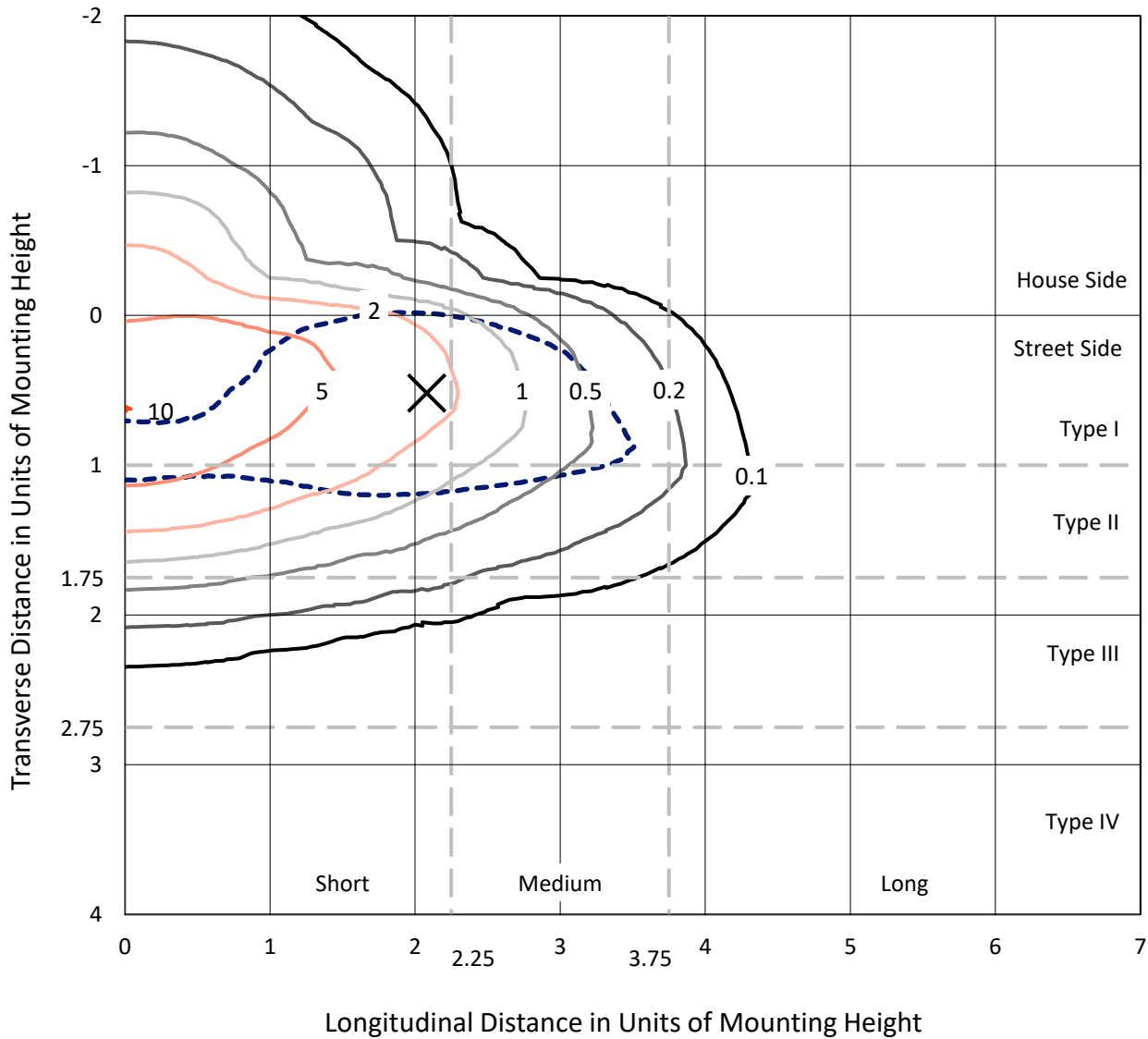


REPORT NUMBER: P642840

CATALOG NUMBER: GWS-SA6D-760-U-T2R-W

Iso-Footcandle Lines of Horizontal Illumination

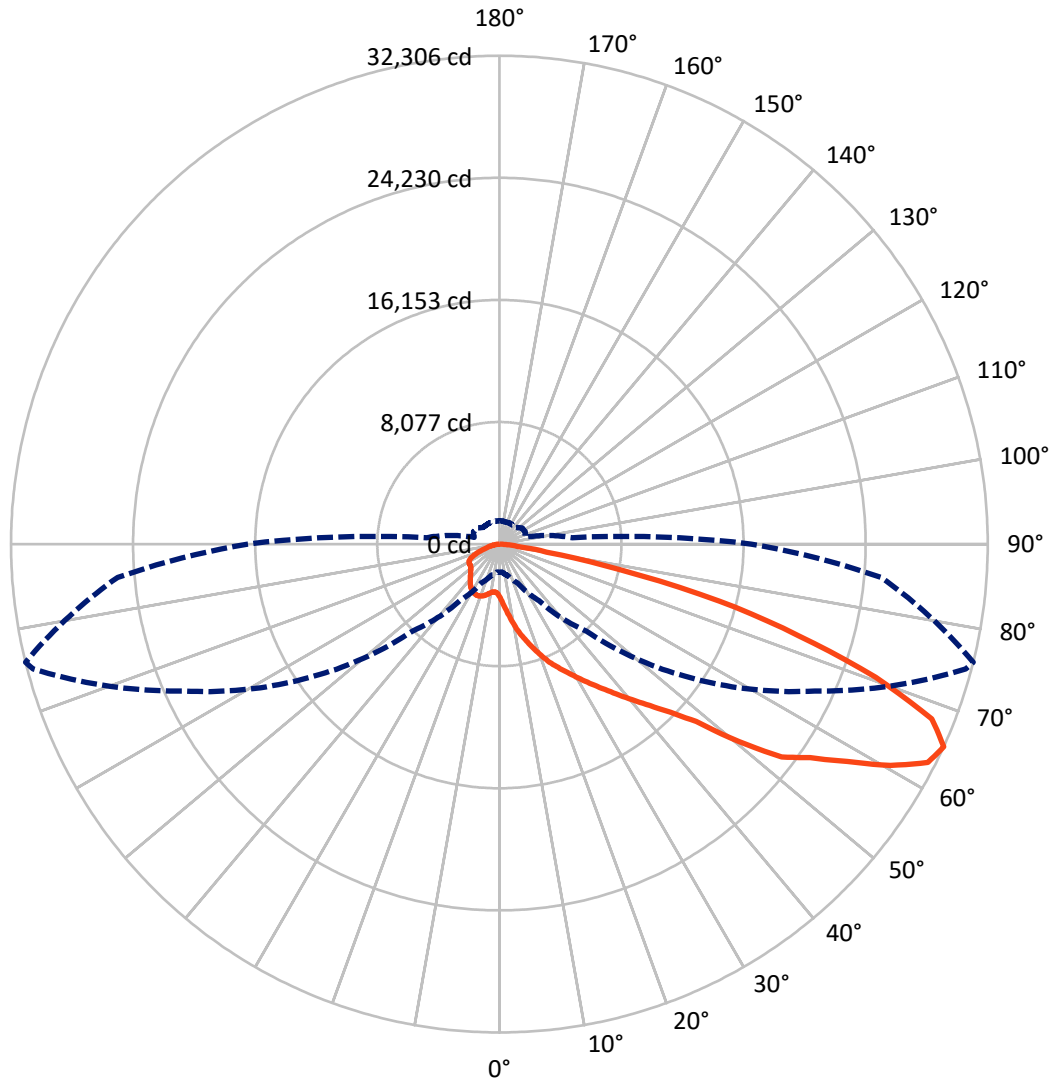
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

REPORT NUMBER: P642840
CATALOG NUMBER: GWS-SA6D-760-U-T2R-W

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P642840

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6159.8	0.0	6159.8
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	30691.7	0.0	30691.7
	% Fixture	83.3	0.0	83.3
Total	Lumens	36851.5	0.0	36851.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.6	1.1
10°-20°	1579.1	4.3
20°-30°	3077.5	8.4
30°-40°	5147.0	14.0
40°-50°	7369.5	20.0
50°-60°	8724.5	23.7
60°-70°	7254.5	19.7
70°-80°	2968.7	8.1
80°-90°	316.1	0.9
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°	36851.5	100.0
0°-180°	36851.5	100.0

Coefficient of Utilization



REPORT NUMBER: P642840

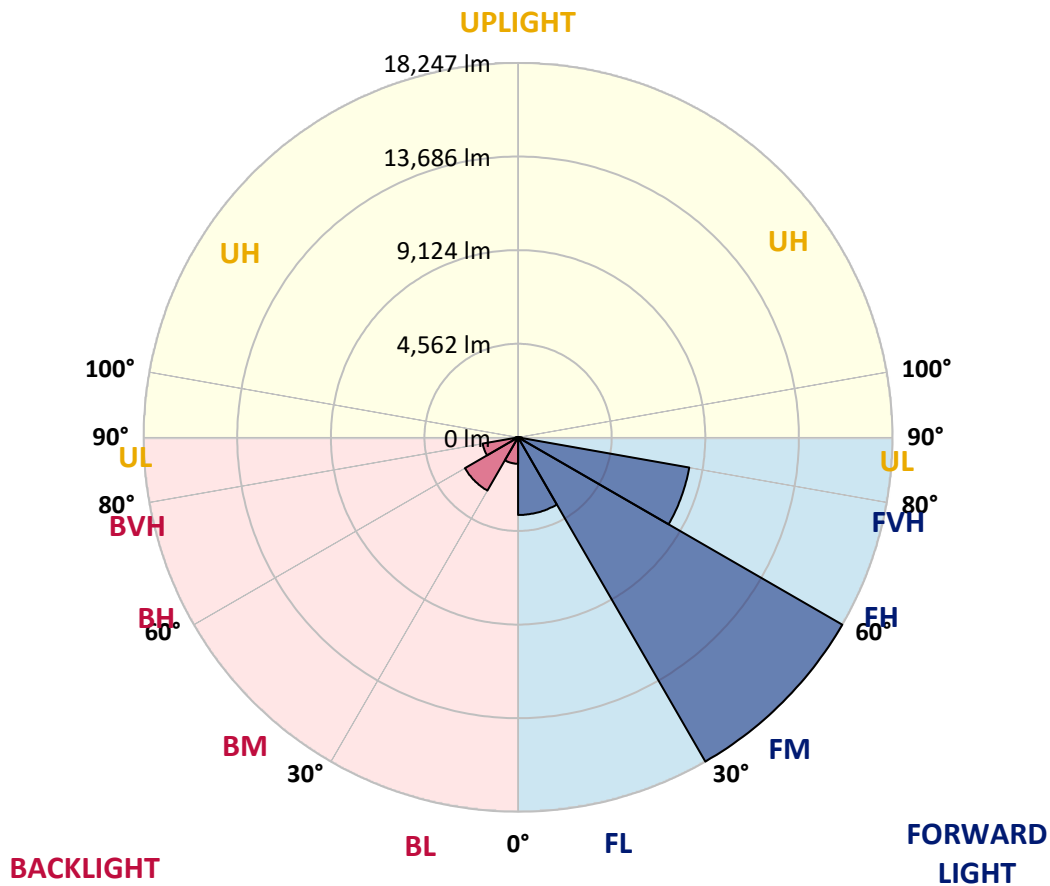
CATALOG NUMBER: GWS-SA6D-760-U-T2R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3782.7	10.3			
FM (30°-60°)	18247.5	49.5			
FH (60°-80°)	8473.1	23.0			G4/12000
FVH (80°-90°)	188.5	0.5			G2/225
BL (0°-30°)	1288.6	3.5	B3/2500		
BM (30°-60°)	2993.5	8.1	B3/5000		
BH (60°-80°)	1750.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	127.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





REPORT NUMBER: P642840

CATALOG NUMBER: GWS-SA6D-760-U-T2R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3489.7	3489.7	3489.7	3489.7	3489.7	3489.7	3489.7	3489.7	3489.7	3489.7	3489.7
2.5°	4891.3	4909.4	4849.8	4829.1	4689.2	4500.1	4342.0	4103.7	3883.5	3849.8	3652.9
5°	6212.5	6134.8	6067.5	6023.4	5829.1	5614.1	5279.9	4831.7	4362.8	4305.8	3880.9
7.5°	6997.5	6984.6	6901.7	6875.8	6725.5	6510.5	6165.9	5608.9	4927.6	4834.3	4189.2
10°	7627.1	7619.3	7577.9	7601.2	7463.9	7254.0	6919.8	6344.7	5546.7	5453.5	4533.8
12.5°	8176.3	8189.3	8181.5	8267.0	8197.0	8033.8	7686.7	7054.5	6165.9	6064.9	4953.5
15°	8577.9	8588.2	8627.1	8813.6	8852.5	8818.8	8466.5	7751.4	6777.3	6632.2	5386.1
17.5°	8691.9	8712.6	8805.9	9106.4	9316.2	9456.1	9194.5	8461.3	7378.4	7220.3	5826.5
20°	8844.7	8868.0	8961.3	9274.8	9583.1	9901.7	9855.1	9181.5	7984.6	7855.1	6272.1
22.5°	9552.0	9533.9	9492.4	9642.7	9862.9	10259.3	10375.8	9873.2	8611.6	8487.2	6764.4
25°	10914.7	10881.0	10616.8	10479.5	10406.9	10647.9	10855.1	10502.8	9223.0	9036.4	7222.9
27.5°	12417.3	12399.2	12062.4	11736.0	11290.4	11186.7	11308.5	11052.0	9816.2	9627.1	7621.9
30°	13839.6	13785.2	13432.9	13023.6	12427.7	11982.1	11803.3	11590.9	10466.5	10269.6	8088.2
32.5°	15111.7	15041.7	14627.2	14173.8	13549.5	13023.6	12489.9	12163.4	11202.3	10974.3	8564.9
35°	16155.7	16085.8	15660.9	15179.0	14492.5	14103.9	13373.3	12785.2	11951.0	11720.4	9127.1
37.5°	16964.0	16899.3	16456.3	15982.2	15383.7	15075.4	14440.7	13484.7	12813.7	12572.8	9723.0
40°	17417.4	17370.8	17015.9	16640.2	16137.6	15870.8	15585.8	14368.1	13780.0	13539.1	10425.1
42.5°	17554.7	17523.6	17274.9	17080.6	16741.2	16539.2	16702.4	15407.0	14811.2	14601.3	11215.2
45°	17210.2	17210.2	17137.6	17236.1	17251.6	17249.0	17821.6	16580.6	16078.0	15847.4	12329.2
47.5°	16329.3	16386.3	16492.5	16977.0	17487.4	17914.8	19129.9	18145.4	17707.6	17518.5	13907.0
50°	14717.9	14873.3	15236.0	16181.6	17267.2	18355.3	20368.2	20458.9	20876.0	20541.8	16228.3
52.5°	12357.7	12334.4	13259.3	14606.5	16262.0	18373.4	21049.6	22500.4	23622.2	23391.6	17953.7
55°	9821.4	9782.6	10645.3	12502.8	14720.5	17679.1	21458.9	23435.7	25145.5	24938.3	19505.5
57.5°	7520.9	7471.6	8238.5	9914.7	12544.3	16205.0	21381.2	24549.7	27241.4	27135.2	21614.4
60°	5176.3	5116.7	5834.3	7300.7	9969.1	13951.0	20521.1	25122.2	29694.8	29731.1	23870.9
62.5°	3108.9	3075.2	3595.9	4733.2	7171.1	11158.2	18508.1	24775.1	31648.2	31811.5	25321.7
65°	1875.7	1852.4	2158.1	2823.9	4549.3	8142.6	15404.4	23000.4	31930.6	32306.3	25355.4
67.5°	1365.3	1367.9	1456.0	1720.2	2652.9	5259.2	11559.8	19819.0	30459.1	30847.7	23756.9
70°	1186.6	1191.7	1238.4	1298.0	1603.7	3010.4	7515.7	15645.4	26109.3	26409.8	19925.2
72.5°	1054.4	1054.4	1085.5	1116.6	1253.9	1834.2	4026.0	10935.4	20606.6	20686.9	15207.5
75°	927.5	919.7	935.3	950.8	1088.1	1282.4	1958.6	7619.3	15220.5	15034.0	9829.2
77.5°	738.4	730.6	733.2	748.7	873.1	917.1	992.2	4759.2	8577.9	8096.0	4342.0
80°	525.9	520.7	549.2	588.1	645.1	562.2	621.8	2303.2	3401.6	3165.9	1684.0
82.5°	313.5	323.8	367.9	399.0	445.6	352.3	401.6	769.4	1204.7	1173.6	684.0
85°	44.0	46.6	132.1	152.9	191.7	137.3	212.4	347.2	481.9	515.6	240.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	18.1	62.2	137.3	139.9	59.6
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°	3489.7	3489.7	3489.7	3489.7	3489.7	3489.7	3489.7	3489.7	3489.7	3489.7	3489.7
2.5°	3551.9	3430.1	3256.5	3111.5	2989.7	2891.2	2808.3	2746.2	2728.0	2702.1	2702.1
5°	3681.4	3461.2	3150.3	2930.1	2803.2	2728.0	2676.2	2650.3	2637.4	2621.8	2614.0
7.5°	3860.2	3551.9	3132.2	2909.4	2810.9	2764.3	2730.6	2715.1	2704.7	2689.2	2689.2
10°	4106.3	3686.6	3189.2	2981.9	2904.2	2857.6	2818.7	2792.8	2769.5	2746.2	2741.0
12.5°	4373.1	3862.8	3292.8	3080.4	2997.5	2940.5	2886.1	2847.2	2818.7	2790.2	2782.4
15°	4668.5	4044.1	3404.2	3176.2	3072.6	2994.9	2930.1	2870.5	2831.7	2790.2	2785.0
17.5°	4958.6	4228.1	3497.5	3241.0	3108.9	3013.0	2919.7	2842.0	2792.8	2746.2	2733.2
20°	5305.8	4412.0	3562.2	3259.1	3101.1	2974.1	2862.7	2764.3	2709.9	2655.5	2647.7
22.5°	5624.5	4583.0	3593.3	3233.2	3041.5	2891.2	2761.7	2655.5	2595.9	2541.5	2531.1
25°	5932.8	4733.2	3580.4	3171.0	2950.8	2777.3	2642.5	2536.3	2479.3	2422.3	2406.8
27.5°	6230.7	4834.3	3528.6	3075.2	2836.8	2650.3	2520.8	2424.9	2375.7	2326.5	2305.7
30°	6523.4	4927.6	3448.2	2950.8	2691.8	2518.2	2412.0	2344.6	2295.4	2243.6	2228.0
32.5°	6818.8	4994.9	3326.5	2805.8	2544.1	2401.6	2336.8	2287.6	2235.8	2184.0	2168.4
35°	7116.7	5023.4	3178.8	2639.9	2419.7	2326.5	2303.2	2246.2	2176.2	2114.0	2093.3
37.5°	7471.6	5049.3	2994.9	2476.7	2310.9	2290.2	2285.0	2199.5	2116.6	2031.1	2007.8
40°	7899.1	5083.0	2805.8	2329.1	2222.8	2277.2	2256.5	2139.9	1974.1	1891.2	1865.3
42.5°	8422.4	5145.2	2608.9	2194.3	2158.1	2228.0	2204.7	1994.9	1883.5	1836.8	1823.9
45°	9191.9	5373.2	2412.0	2088.1	2108.8	2158.1	2121.8	1909.4	1865.3	1834.2	1818.7
47.5°	10562.4	5722.9	2241.0	2007.8	2070.0	2095.9	1956.0	1886.0	1852.4	1810.9	1792.8
50°	11987.3	5875.8	2103.7	1958.6	2025.9	2038.9	1865.3	1855.0	1831.6	1787.6	1769.5
52.5°	12951.0	5855.0	2020.8	1940.4	1989.7	1940.4	1823.9	1821.3	1805.7	1753.9	1733.2
55°	14039.1	5891.3	1984.5	1945.6	1974.1	1774.6	1772.1	1779.8	1772.1	1715.1	1704.7
57.5°	15508.1	6002.7	1966.4	1963.8	1963.8	1694.3	1722.8	1733.2	1717.6	1691.7	1684.0
60°	16920.0	6010.5	1932.7	1984.5	1956.0	1645.1	1665.8	1676.2	1658.1	1652.9	1650.3
62.5°	17451.1	5637.4	1857.5	1968.9	1924.9	1590.7	1606.2	1611.4	1593.3	1606.2	1603.7
65°	16660.9	4844.6	1733.2	1893.8	1829.0	1541.5	1531.1	1544.1	1513.0	1546.7	1549.3
67.5°	14793.0	3849.8	1544.1	1751.3	1694.3	1487.1	1466.3	1466.3	1414.5	1466.3	1463.8
70°	11927.7	2720.3	1266.9	1523.3	1546.7	1422.3	1411.9	1352.4	1269.5	1347.2	1339.4
72.5°	9041.6	1953.4	997.4	1204.7	1331.6	1331.6	1334.2	1233.2	1137.3	1173.6	1142.5
75°	5728.1	1375.7	797.9	922.3	1044.1	1168.4	1228.0	1041.5	956.0	940.4	924.9
77.5°	2580.4	904.2	621.8	707.3	740.9	922.3	1121.8	896.4	779.8	746.1	735.8
80°	1080.3	562.2	443.0	500.0	456.0	774.6	989.7	696.9	572.5	525.9	492.2
82.5°	474.1	334.2	282.4	269.4	285.0	575.1	738.4	463.7	357.5	484.5	489.6
85°	199.5	176.2	145.1	132.1	116.6	220.2	347.2	181.4	222.8	126.9	103.6
87.5°	46.6	51.8	38.9	25.9	15.5	2.6	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)