

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: P642950

Luminaire Tested: GWS-SA6D-830-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642950
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-830-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29016.3 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

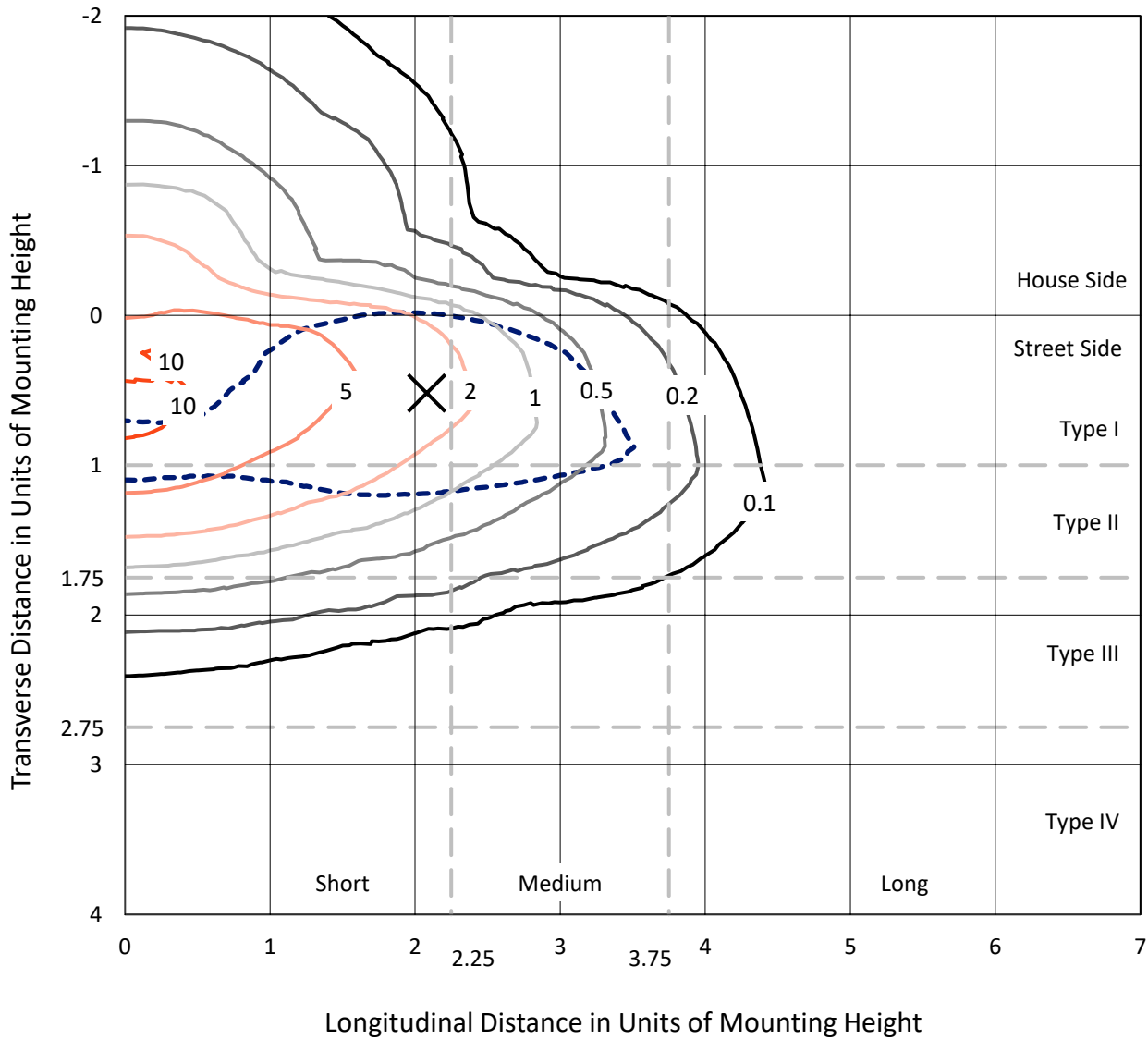
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

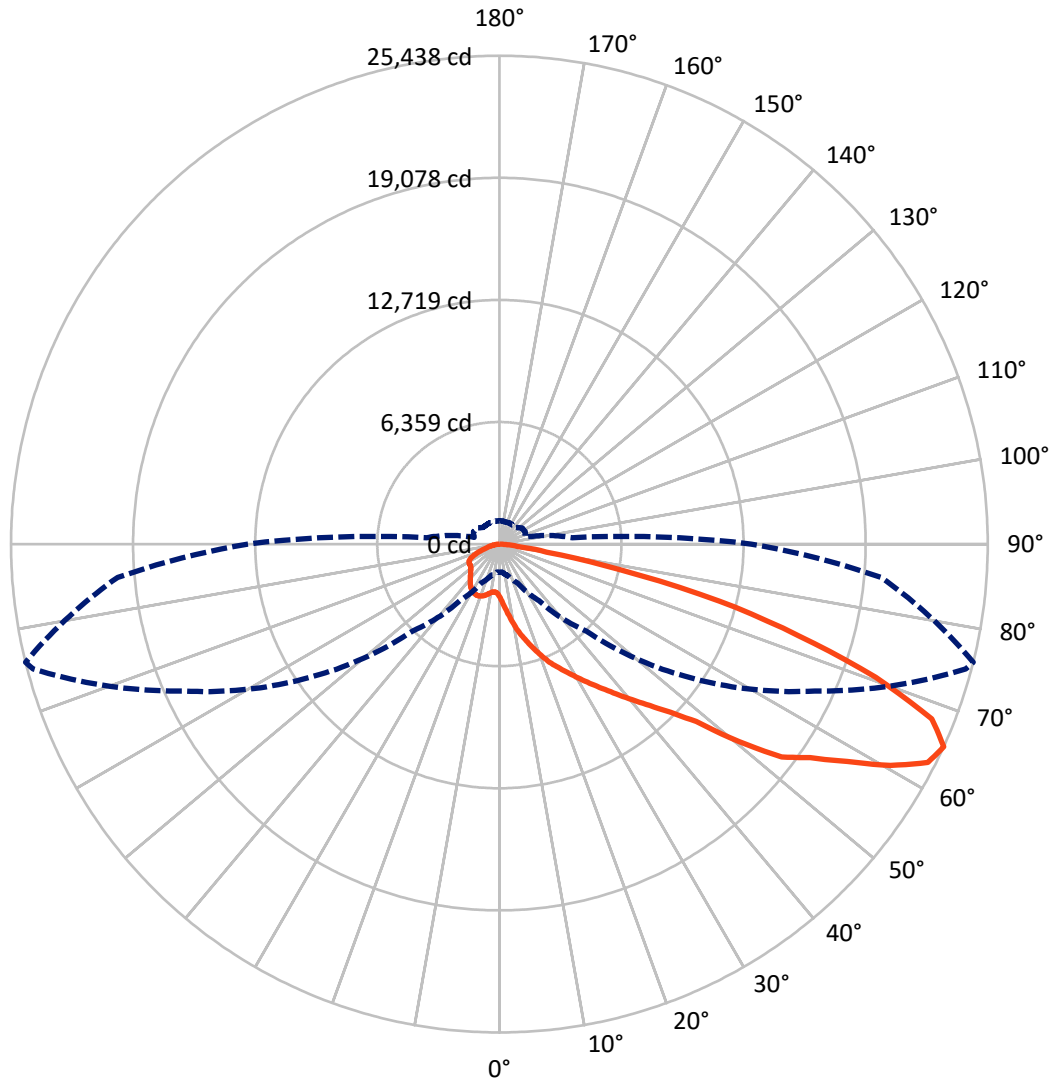
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4850.1	0.0	4850.1
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	24166.2	0.0	24166.2
	% Fixture	83.3	0.0	83.3
Total	Lumens	29016.3	0.0	29016.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.4	1.1
10°-20°	1243.4	4.3
20°-30°	2423.2	8.4
30°-40°	4052.7	14.0
40°-50°	5802.6	20.0
50°-60°	6869.5	23.7
60°-70°	5712.0	19.7
70°-80°	2337.5	8.1
80°-90°	248.9	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°	29016.3	100.0
0°-180°	29016.3	100.0

Coefficient of Utilization



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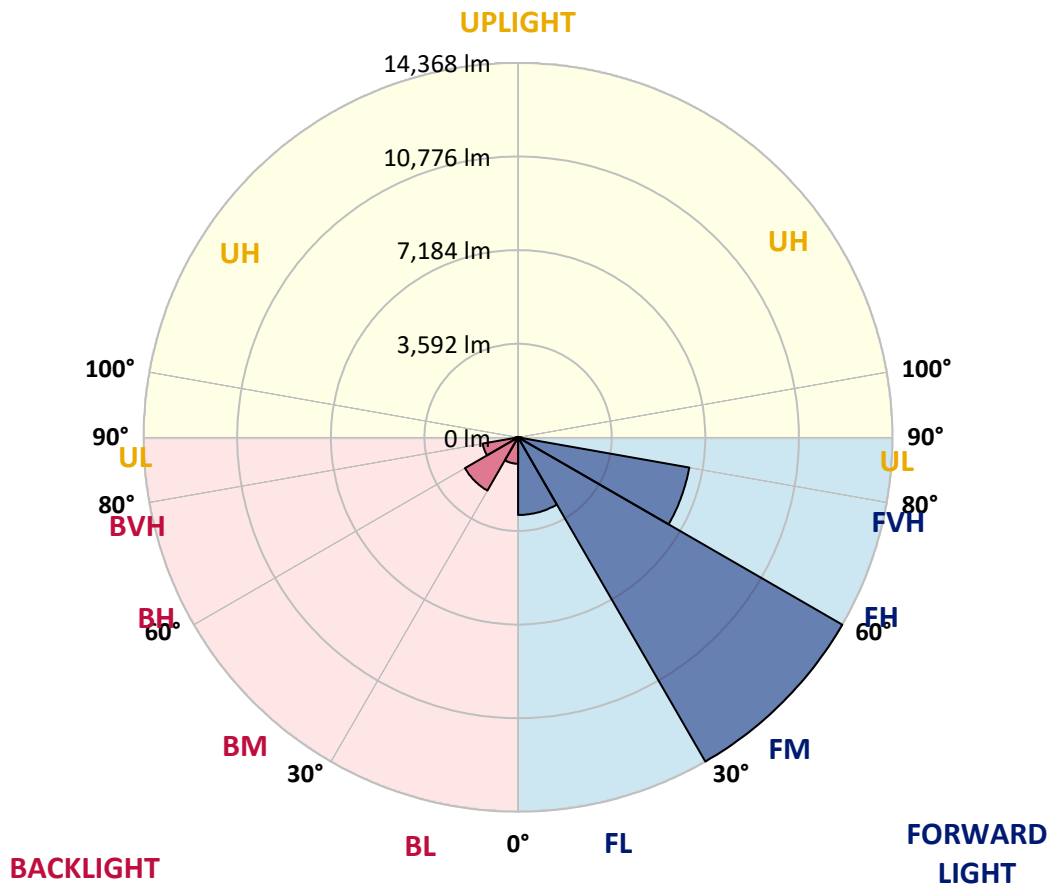
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2978.4	10.3			
FM (30°-60°)	14367.8	49.5			
FH (60°-80°)	6671.6	23.0			G3/7500
FVH (80°-90°)	148.4	0.5			G2/225
BL (0°-30°)	1014.6	3.5	B3/2500		
BM (30°-60°)	2357.0	8.1	B2/2500		
BH (60°-80°)	1378.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	100.4	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7
2.5°	3851.3	3865.6	3818.7	3802.4	3692.2	3543.3	3418.9	3231.2	3057.8	3031.3	2876.2
5°	4891.7	4830.5	4777.4	4742.8	4589.8	4420.4	4157.3	3804.4	3435.2	3390.3	3055.8
7.5°	5509.8	5499.6	5434.3	5413.9	5295.6	5126.3	4854.9	4416.4	3879.9	3806.4	3298.5
10°	6005.4	5999.3	5966.7	5985.0	5876.9	5711.7	5448.6	4995.7	4367.4	4294.0	3569.8
12.5°	6437.9	6448.1	6442.0	6509.3	6454.2	6325.7	6052.4	5554.6	4854.9	4775.4	3900.3
15°	6754.1	6762.2	6792.8	6939.7	6970.3	6943.8	6666.4	6103.4	5336.4	5222.1	4240.9
17.5°	6843.8	6860.2	6933.6	7170.2	7335.5	7445.6	7239.6	6662.3	5809.6	5685.2	4587.7
20°	6964.2	6982.6	7056.0	7302.8	7545.6	7796.5	7759.8	7229.4	6287.0	6185.0	4938.6
22.5°	7521.1	7506.8	7474.2	7592.5	7765.9	8078.0	8169.8	7774.0	6780.6	6682.7	5326.2
25°	8594.1	8567.6	8359.5	8251.4	8194.3	8384.0	8547.2	8269.7	7262.0	7115.1	5687.2
27.5°	9777.2	9762.9	9497.7	9240.7	8889.9	8808.3	8904.1	8702.2	7729.2	7580.2	6001.4
30°	10897.1	10854.3	10576.8	10254.5	9785.4	9434.5	9293.8	9126.5	8241.2	8086.1	6368.5
32.5°	11898.7	11843.6	11517.2	11160.3	10668.6	10254.5	9834.3	9577.3	8820.5	8641.0	6743.9
35°	12720.8	12665.7	12331.2	11951.7	11411.2	11105.2	10529.9	10066.9	9410.0	9228.5	7186.5
37.5°	13357.2	13306.2	12957.4	12584.1	12112.9	11870.1	11370.4	10617.6	10089.3	9899.6	7655.7
40°	13714.2	13677.5	13398.0	13102.2	12706.5	12496.4	12272.0	11313.2	10850.2	10660.5	8208.5
42.5°	13822.3	13797.8	13602.0	13449.0	13181.8	13022.7	13151.2	12131.2	11662.1	11496.8	8830.7
45°	13551.0	13551.0	13493.9	13571.4	13583.6	13581.6	14032.4	13055.3	12659.6	12478.0	9707.9
47.5°	12857.4	12902.3	12986.0	13367.4	13769.3	14105.9	15062.6	14287.4	13942.7	13793.8	10950.1
50°	11588.6	11711.0	11996.6	12741.2	13595.9	14452.6	16037.6	16109.0	16437.5	16174.3	12777.9
52.5°	9730.3	9711.9	10440.2	11500.9	12804.4	14466.9	16574.1	17716.5	18599.7	18418.2	14136.5
55°	7733.2	7702.6	8381.9	9844.5	11590.7	13920.2	16896.4	18452.9	19799.2	19636.0	15358.4
57.5°	5921.8	5883.1	6486.9	7806.7	9877.2	12759.5	16835.2	19330.0	21449.5	21365.8	17018.8
60°	4075.7	4028.8	4593.8	5748.4	7849.5	10984.8	16158.0	19780.8	23381.3	23409.8	18795.6
62.5°	2447.9	2421.4	2831.4	3726.9	5646.4	8785.8	14573.0	19507.5	24919.3	25047.9	19937.9
65°	1476.9	1458.5	1699.2	2223.5	3582.1	6411.4	12129.2	18110.2	25141.7	25437.5	19964.4
67.5°	1075.0	1077.1	1146.4	1354.5	2088.9	4141.0	9102.0	15605.2	23983.0	24289.0	18705.8
70°	934.3	938.4	975.1	1022.0	1262.7	2370.4	5917.7	12318.9	20558.0	20794.7	15688.8
72.5°	830.2	830.2	854.7	879.2	987.3	1444.2	3170.0	8610.4	16225.3	16288.5	11974.2
75°	730.3	724.2	736.4	748.6	856.8	1009.7	1542.2	5999.3	11984.4	11837.5	7739.4
77.5°	581.4	575.2	577.3	589.5	687.4	722.1	781.3	3747.3	6754.1	6374.7	3418.9
80°	414.1	410.0	432.5	463.1	507.9	442.7	489.6	1813.5	2678.4	2492.7	1325.9
82.5°	246.8	255.0	289.7	314.1	350.9	277.4	316.2	605.8	948.6	924.1	538.5
85°	34.7	36.7	104.0	120.4	151.0	108.1	167.3	273.3	379.4	405.9	189.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	14.3	49.0	108.1	110.2	46.9
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°	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7
2.5°	2796.7	2700.8	2564.1	2449.9	2354.0	2276.5	2211.2	2162.3	2148.0	2127.6	2127.6
5°	2898.7	2725.3	2480.5	2307.1	2207.2	2148.0	2107.2	2086.8	2076.6	2064.4	2058.3
7.5°	3039.4	2796.7	2466.2	2290.8	2213.3	2176.6	2150.0	2137.8	2129.6	2117.4	2117.4
10°	3233.2	2902.8	2511.1	2347.9	2286.7	2250.0	2219.4	2199.0	2180.6	2162.3	2158.2
12.5°	3443.3	3041.5	2592.7	2425.4	2360.2	2315.3	2272.4	2241.8	2219.4	2197.0	2190.8
15°	3675.9	3184.3	2680.4	2500.9	2419.3	2358.1	2307.1	2260.2	2229.6	2197.0	2192.9
17.5°	3904.4	3329.1	2753.9	2551.9	2447.9	2372.4	2299.0	2237.8	2199.0	2162.3	2152.1
20°	4177.7	3473.9	2804.9	2566.2	2441.8	2341.8	2254.1	2176.6	2133.7	2090.9	2084.8
22.5°	4428.6	3608.6	2829.3	2545.8	2394.8	2276.5	2174.5	2090.9	2044.0	2001.1	1993.0
25°	4671.4	3726.9	2819.1	2496.8	2323.4	2186.8	2080.7	1997.1	1952.2	1907.3	1895.1
27.5°	4905.9	3806.4	2778.3	2421.4	2233.7	2086.8	1984.8	1909.3	1870.6	1831.8	1815.5
30°	5136.5	3879.9	2715.1	2323.4	2119.4	1982.8	1899.1	1846.1	1807.3	1766.5	1754.3
32.5°	5369.0	3932.9	2619.2	2209.2	2003.2	1891.0	1840.0	1801.2	1760.4	1719.6	1707.4
35°	5603.6	3955.4	2502.9	2078.7	1905.3	1831.8	1813.5	1768.6	1713.5	1664.6	1648.2
37.5°	5883.1	3975.8	2358.1	1950.1	1819.6	1803.3	1799.2	1731.9	1666.6	1599.3	1580.9
40°	6219.6	4002.3	2209.2	1833.9	1750.2	1793.1	1776.7	1685.0	1554.4	1489.1	1468.7
42.5°	6631.7	4051.2	2054.2	1727.8	1699.2	1754.3	1735.9	1570.7	1483.0	1446.3	1436.1
45°	7237.5	4230.7	1899.1	1644.2	1660.5	1699.2	1670.7	1503.4	1468.7	1444.2	1432.0
47.5°	8316.6	4506.1	1764.5	1580.9	1629.9	1650.3	1540.1	1485.0	1458.5	1425.9	1411.6
50°	9438.6	4626.5	1656.4	1542.2	1595.2	1605.4	1468.7	1460.6	1442.2	1407.5	1393.2
52.5°	10197.4	4610.2	1591.1	1527.9	1566.6	1527.9	1436.1	1434.0	1421.8	1381.0	1364.7
55°	11054.2	4638.7	1562.6	1532.0	1554.4	1397.3	1395.3	1401.4	1395.3	1350.4	1342.2
57.5°	12210.8	4726.4	1548.3	1546.2	1546.2	1334.1	1356.5	1364.7	1352.4	1332.1	1325.9
60°	13322.5	4732.6	1521.8	1562.6	1540.1	1295.3	1311.7	1319.8	1305.5	1301.5	1299.4
62.5°	13740.7	4438.8	1462.6	1550.3	1515.6	1252.5	1264.7	1268.8	1254.5	1264.7	1262.7
65°	13118.6	3814.6	1364.7	1491.2	1440.2	1213.7	1205.6	1215.8	1191.3	1217.8	1219.9
67.5°	11647.8	3031.3	1215.8	1379.0	1334.1	1170.9	1154.6	1154.6	1113.8	1154.6	1152.5
70°	9391.7	2141.9	997.5	1199.5	1217.8	1119.9	1111.7	1064.8	999.5	1060.7	1054.6
72.5°	7119.2	1538.1	785.4	948.6	1048.5	1048.5	1050.5	971.0	895.5	924.1	899.6
75°	4510.2	1083.2	628.3	726.2	822.1	920.0	966.9	820.0	752.7	740.5	728.2
77.5°	2031.7	711.9	489.6	556.9	583.4	726.2	883.3	705.8	614.0	587.5	579.3
80°	850.6	442.7	348.8	393.7	359.0	609.9	779.2	548.7	450.8	414.1	387.6
82.5°	373.3	263.1	222.3	212.1	224.4	452.9	581.4	365.1	281.5	381.5	385.5
85°	157.1	138.7	114.2	104.0	91.8	173.4	273.3	142.8	175.4	100.0	81.6
87.5°	36.7	40.8	30.6	20.4	12.2	2.0	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)