

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: P638220

Luminaire Tested: GWS-SA4E-735-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638220
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-SA4E-735-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30777.1 lumens
Efficiency: N/A
Efficacy: 151.9 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): 202.6
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

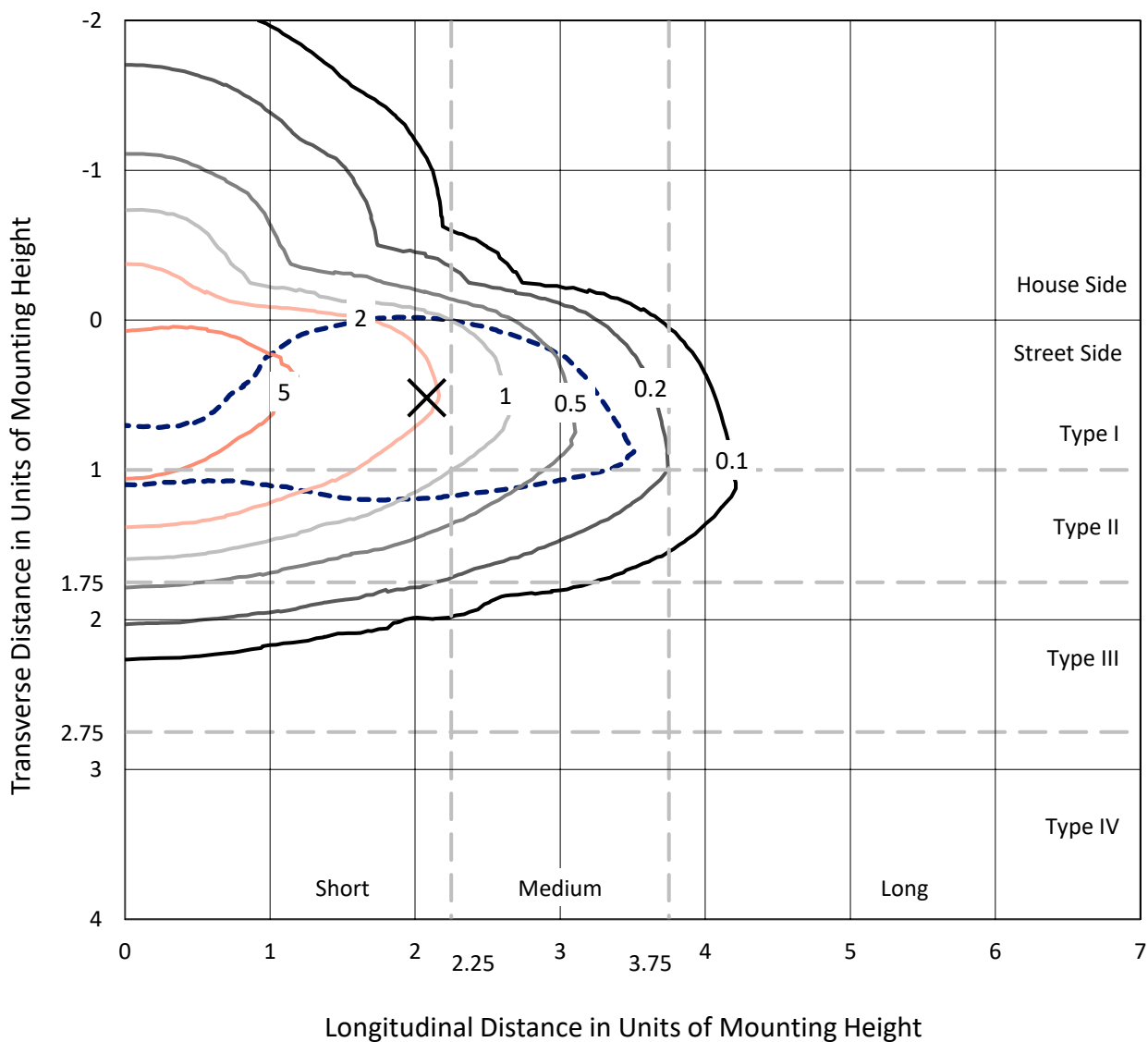


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Iso-Footcandle Lines of Horizontal Illumination

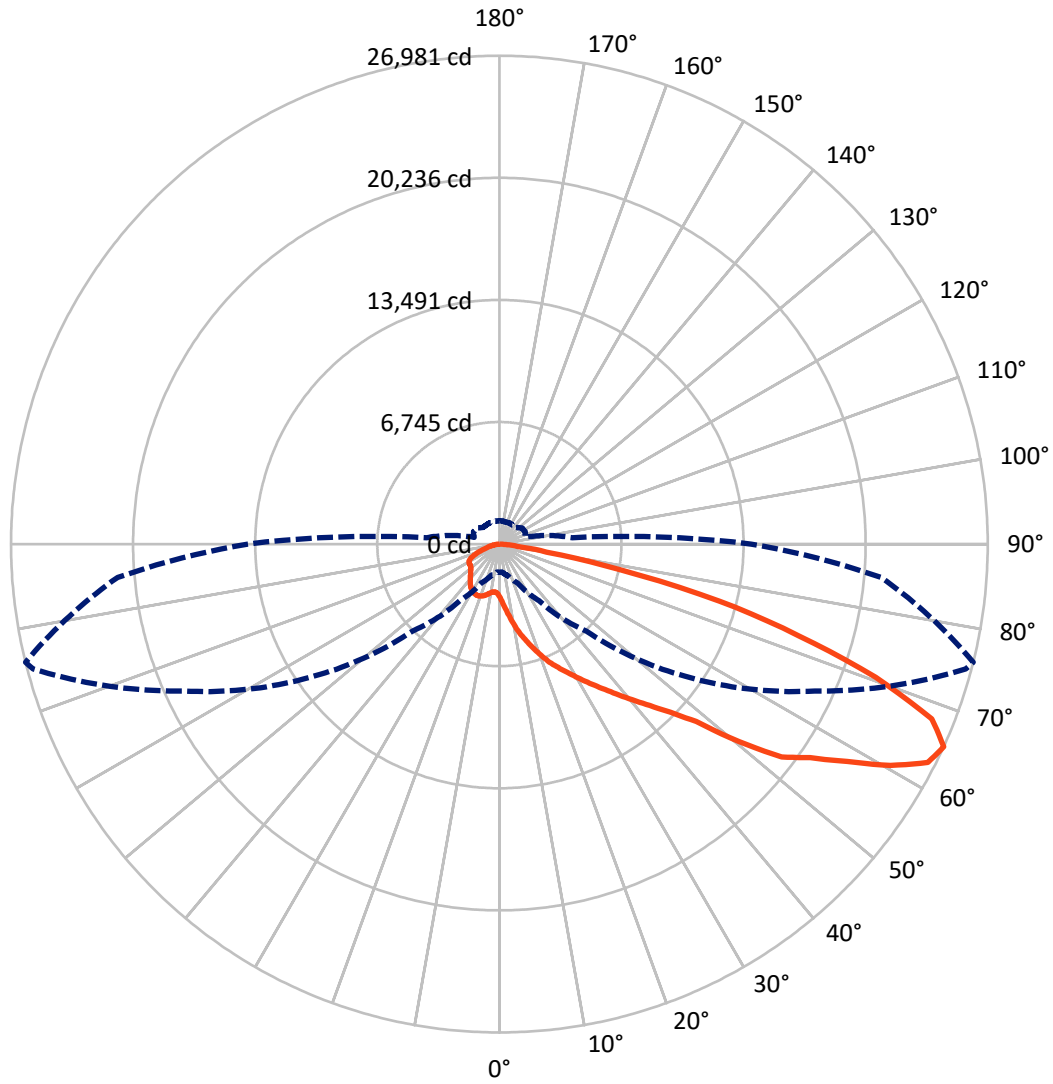
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 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	5144.4	0.0	5144.4
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	25632.7	0.0	25632.7
	% Fixture	83.3	0.0	83.3
Total	Lumens	30777.1	0.0	30777.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.3	1.1
10°-20°	1318.9	4.3
20°-30°	2570.3	8.4
30°-40°	4298.6	14.0
40°-50°	6154.7	20.0
50°-60°	7286.4	23.7
60°-70°	6058.7	19.7
70°-80°	2479.4	8.1
80°-90°	264.0	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°	30777.1	100.0
0°-180°	30777.1	100.0

Coefficient of Utilization



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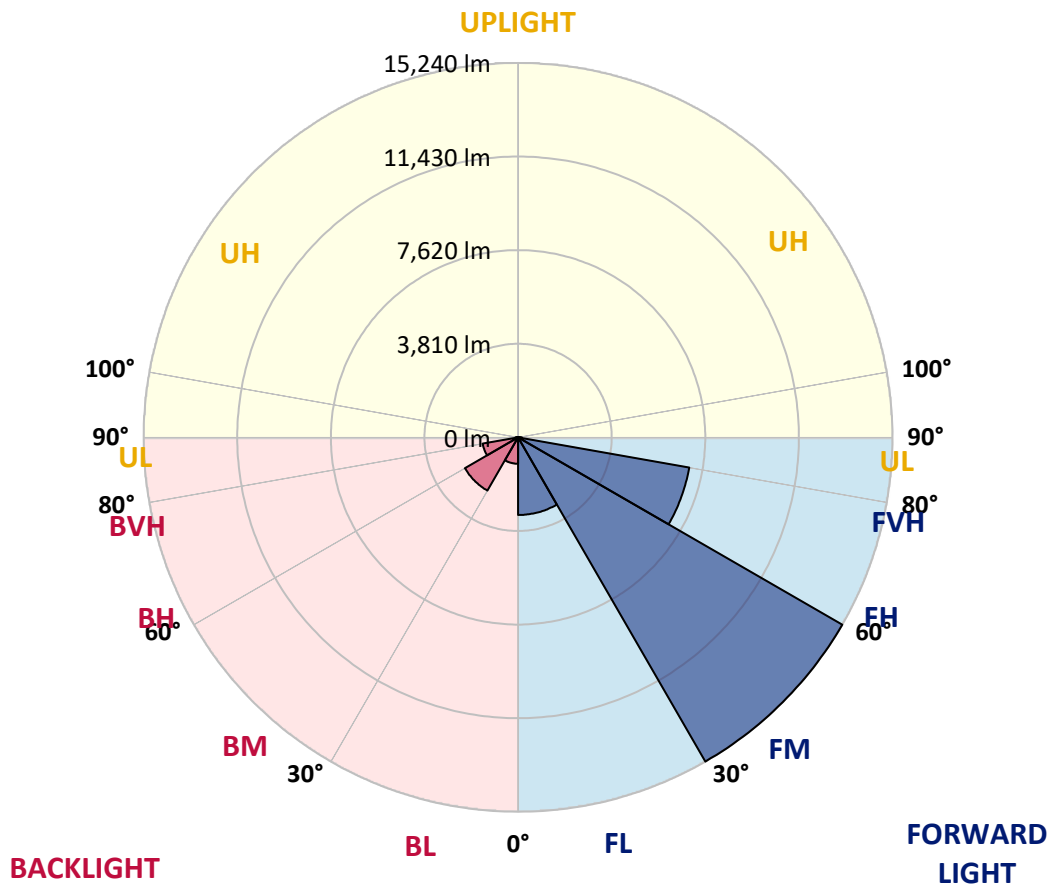
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3159.2	10.3			
FM (30°-60°)	15239.7	49.5			
FH (60°-80°)	7076.4	23.0			G3/7500
FVH (80°-90°)	157.4	0.5			G2/225
BL (0°-30°)	1076.2	3.5	B3/2500		
BM (30°-60°)	2500.1	8.1	B3/5000		
BH (60°-80°)	1461.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	106.5	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°	2914.5	2914.5	2914.5	2914.5	2914.5	2914.5	2914.5	2914.5	2914.5	2914.5	2914.5
2.5°	4085.0	4100.2	4050.4	4033.1	3916.3	3758.3	3626.3	3427.3	3243.4	3215.2	3050.8
5°	5188.5	5123.6	5067.3	5030.6	4868.3	4688.7	4409.6	4035.3	3643.6	3596.0	3241.2
7.5°	5844.1	5833.3	5764.0	5742.4	5616.9	5437.3	5149.6	4684.4	4115.3	4037.4	3498.7
10°	6369.9	6363.4	6328.8	6348.2	6233.6	6058.3	5779.2	5298.9	4632.4	4554.5	3786.4
12.5°	6828.6	6839.4	6832.9	6904.3	6845.9	6709.6	6419.6	5891.7	5149.6	5065.2	4137.0
15°	7163.9	7172.6	7205.1	7360.8	7393.3	7365.2	7070.9	6473.7	5660.2	5539.0	4498.3
17.5°	7259.1	7276.5	7354.3	7605.3	7780.6	7897.4	7678.9	7066.6	6162.2	6030.2	4866.1
20°	7386.8	7406.3	7484.2	7746.0	8003.5	8269.6	8230.6	7668.1	6668.5	6560.3	5238.3
22.5°	7977.5	7962.3	7927.7	8053.2	8237.1	8568.2	8665.5	8245.8	7192.1	7088.2	5649.4
25°	9115.6	9087.5	8866.8	8752.1	8691.5	8892.7	9065.8	8771.6	7702.7	7546.9	6032.3
27.5°	10370.5	10355.4	10074.1	9801.5	9429.3	9342.8	9444.5	9230.3	8198.2	8040.2	6365.5
30°	11558.4	11512.9	11218.7	10876.8	10379.2	10007.0	9857.7	9680.3	8741.3	8576.8	6755.0
32.5°	12620.7	12562.3	12216.1	11837.5	11316.0	10876.8	10431.1	10158.5	9355.8	9165.4	7153.1
35°	13492.7	13434.3	13079.4	12677.0	12103.6	11779.1	11168.9	10677.8	9981.1	9788.5	7622.6
37.5°	14167.8	14113.7	13743.7	13347.7	12847.9	12590.5	12060.4	11262.0	10701.6	10500.3	8120.3
40°	14546.4	14507.5	14211.1	13897.3	13477.6	13254.7	13016.7	11999.8	11508.6	11307.4	8706.7
42.5°	14661.1	14635.1	14427.4	14265.1	13981.7	13812.9	13949.2	12867.4	12369.8	12194.5	9366.6
45°	14373.3	14373.3	14312.7	14395.0	14407.9	14405.8	14884.0	13847.6	13427.8	13235.2	10297.0
47.5°	13637.7	13685.3	13774.0	14178.6	14604.8	14961.9	15976.6	15154.4	14788.8	14630.8	11614.6
50°	12291.9	12421.7	12724.6	13514.3	14420.9	15329.7	17010.9	17086.6	17434.9	17155.8	13553.3
52.5°	10320.8	10301.3	11073.7	12198.8	13581.4	15344.8	17579.9	18791.6	19728.4	19535.9	14994.3
55°	8202.5	8170.1	8890.6	10441.9	12294.0	14765.0	17921.8	19572.7	21000.7	20827.6	16290.4
57.5°	6281.2	6240.1	6880.5	8280.4	10476.5	13533.8	17856.9	20503.0	22751.1	22662.4	18051.6
60°	4323.0	4273.3	4872.6	6097.3	8325.8	11651.4	17138.5	20981.2	24800.1	24830.4	19936.2
62.5°	2596.4	2568.3	3003.2	3953.0	5989.1	9319.0	15457.3	20691.3	26431.5	26567.8	21147.8
65°	1566.5	1547.0	1802.3	2358.4	3799.4	6800.4	12865.2	19209.2	26667.4	26981.1	21175.9
67.5°	1140.3	1142.4	1216.0	1436.7	2215.6	4392.3	9654.3	16552.2	25438.4	25762.9	19840.9
70°	991.0	995.3	1034.2	1084.0	1339.3	2514.2	6276.8	13066.5	21805.6	22056.6	16640.9
72.5°	880.6	880.6	906.6	932.5	1047.2	1531.9	3362.4	9132.9	17209.9	17277.0	12700.8
75°	774.6	768.1	781.1	794.1	908.7	1071.0	1635.7	6363.4	12711.6	12555.8	8209.0
77.5°	616.6	610.2	612.3	625.3	729.2	765.9	828.7	3974.7	7163.9	6761.5	3626.3
80°	439.2	434.9	458.7	491.2	538.8	469.5	519.3	1923.5	2840.9	2644.0	1406.4
82.5°	261.8	270.5	307.2	333.2	372.2	294.3	335.4	642.6	1006.1	980.1	571.2
85°	36.8	38.9	110.3	127.7	160.1	114.7	177.4	289.9	402.4	430.6	201.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	15.1	51.9	114.7	116.8	49.8
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°	2914.5	2914.5	2914.5	2914.5	2914.5	2914.5	2914.5	2914.5	2914.5	2914.5	2914.5
2.5°	2966.4	2864.7	2719.7	2598.6	2496.9	2414.7	2345.4	2293.5	2278.4	2256.7	2256.7
5°	3074.6	2890.7	2631.0	2447.1	2341.1	2278.4	2235.1	2213.4	2202.6	2189.6	2183.2
7.5°	3223.9	2966.4	2615.9	2429.8	2347.6	2308.6	2280.5	2267.5	2258.9	2245.9	2245.9
10°	3429.4	3078.9	2663.5	2490.4	2425.5	2386.5	2354.1	2332.4	2313.0	2293.5	2289.2
12.5°	3652.3	3226.0	2750.0	2572.6	2503.4	2455.8	2410.3	2377.9	2354.1	2330.3	2323.8
15°	3899.0	3377.5	2843.1	2652.7	2566.1	2501.2	2447.1	2397.4	2364.9	2330.3	2326.0
17.5°	4141.3	3531.1	2921.0	2706.8	2596.4	2516.4	2438.5	2373.6	2332.4	2293.5	2282.7
20°	4431.2	3684.7	2975.1	2721.9	2589.9	2483.9	2390.9	2308.6	2263.2	2217.8	2211.3
22.5°	4697.4	3827.6	3001.0	2700.3	2540.2	2414.7	2306.5	2217.8	2168.0	2122.6	2113.9
25°	4954.8	3953.0	2990.2	2648.3	2464.4	2319.5	2207.0	2118.2	2070.6	2023.0	2010.1
27.5°	5203.7	4037.4	2946.9	2568.3	2369.2	2213.4	2105.3	2025.2	1984.1	1943.0	1925.7
30°	5448.1	4115.3	2879.9	2464.4	2248.1	2103.1	2014.4	1958.1	1917.0	1873.7	1860.8
32.5°	5694.8	4171.6	2778.2	2343.3	2124.7	2005.7	1951.6	1910.5	1867.3	1824.0	1811.0
35°	5943.6	4195.4	2654.8	2204.8	2020.9	1943.0	1923.5	1875.9	1817.5	1765.6	1748.3
37.5°	6240.1	4217.0	2501.2	2068.5	1930.0	1912.7	1908.4	1837.0	1767.7	1696.3	1676.9
40°	6597.1	4245.1	2343.3	1945.1	1856.4	1901.9	1884.6	1787.2	1648.7	1579.5	1557.8
42.5°	7034.1	4297.1	2178.8	1832.6	1802.3	1860.8	1841.3	1666.0	1573.0	1534.0	1523.2
45°	7676.7	4487.5	2014.4	1743.9	1761.2	1802.3	1772.1	1594.6	1557.8	1531.9	1518.9
47.5°	8821.3	4779.6	1871.6	1676.9	1728.8	1750.4	1633.6	1575.2	1547.0	1512.4	1497.3
50°	10011.3	4907.2	1756.9	1635.7	1692.0	1702.8	1557.8	1549.2	1529.7	1492.9	1477.8
52.5°	10816.2	4889.9	1687.7	1620.6	1661.7	1620.6	1523.2	1521.1	1508.1	1464.8	1447.5
55°	11725.0	4920.2	1657.4	1624.9	1648.7	1482.1	1480.0	1486.4	1480.0	1432.4	1423.7
57.5°	12951.8	5013.2	1642.2	1640.1	1640.1	1415.0	1438.8	1447.5	1434.5	1412.9	1406.4
60°	14131.0	5019.7	1614.1	1657.4	1633.6	1373.9	1391.2	1399.9	1384.8	1380.4	1378.3
62.5°	14574.6	4708.2	1551.4	1644.4	1607.6	1328.5	1341.5	1345.8	1330.7	1341.5	1339.3
65°	13914.6	4046.1	1447.5	1581.7	1527.6	1287.4	1278.7	1289.6	1263.6	1291.7	1293.9
67.5°	12354.6	3215.2	1289.6	1462.6	1415.0	1242.0	1224.6	1224.6	1181.4	1224.6	1222.5
70°	9961.6	2271.9	1058.0	1272.2	1291.7	1187.9	1179.2	1129.4	1060.2	1125.1	1118.6
72.5°	7551.2	1631.4	833.0	1006.1	1112.1	1112.1	1114.3	1029.9	949.9	980.1	954.2
75°	4783.9	1148.9	666.4	770.3	872.0	975.8	1025.6	869.8	798.4	785.4	772.4
77.5°	2155.0	755.1	519.3	590.7	618.8	770.3	936.9	748.6	651.3	623.1	614.5
80°	902.3	469.5	370.0	417.6	380.8	646.9	826.5	582.0	478.2	439.2	411.1
82.5°	396.0	279.1	235.8	225.0	238.0	480.3	616.6	387.3	298.6	404.6	408.9
85°	166.6	147.1	121.2	110.3	97.4	183.9	289.9	151.5	186.1	106.0	86.5
87.5°	38.9	43.3	32.5	21.6	13.0	2.2	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)