

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: P640310

Luminaire Tested: GWS-SA5D-750-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640310
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-SA5D-750-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31334 lumens
Efficiency: N/A
Efficacy: 153.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

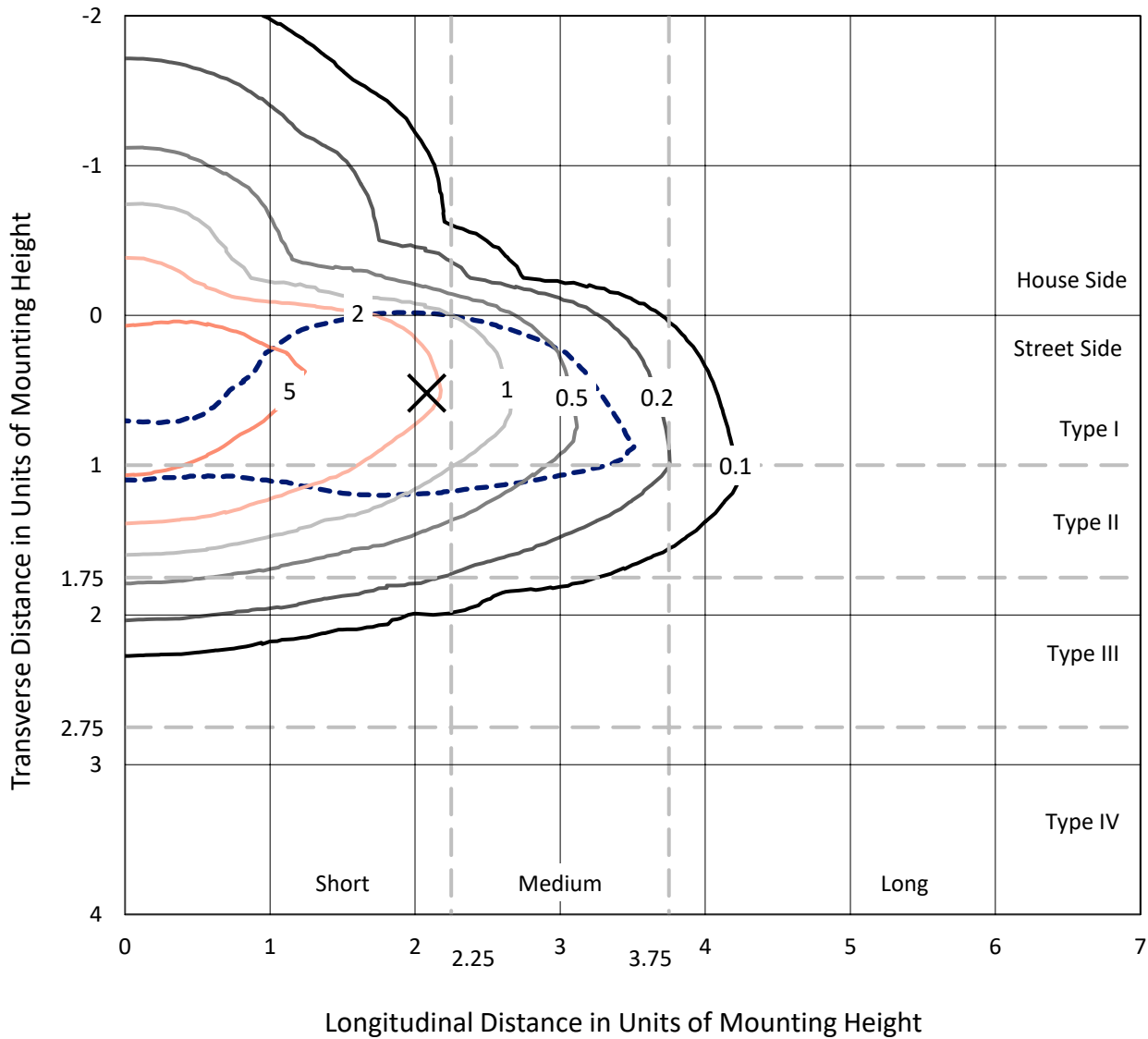
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

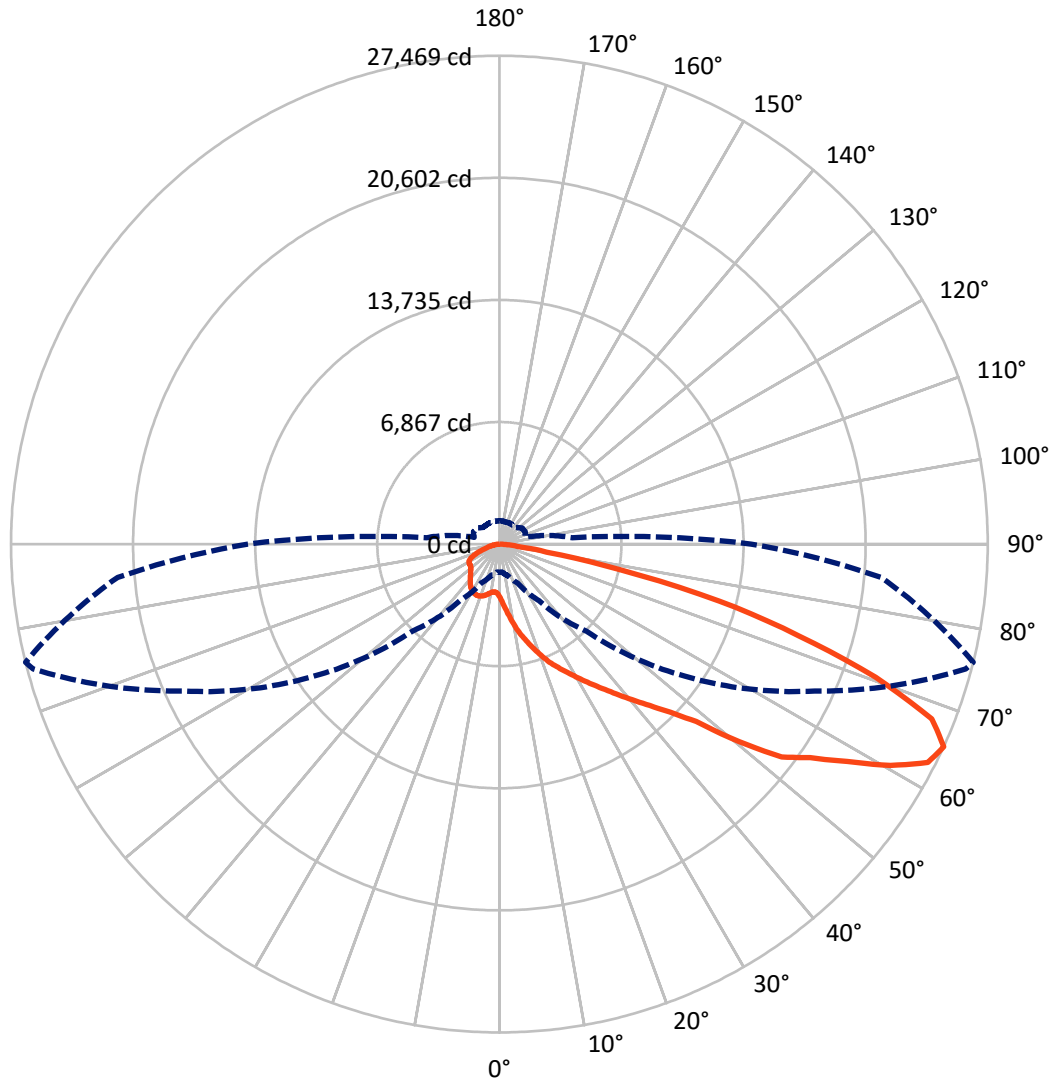
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 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	5237.5	0.0	5237.5
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	26096.5	0.0	26096.5
	% Fixture	83.3	0.0	83.3
Total	Lumens	31334.0	0.0	31334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.5	1.1
10°-20°	1342.7	4.3
20°-30°	2616.8	8.4
30°-40°	4376.4	14.0
40°-50°	6266.1	20.0
50°-60°	7418.2	23.7
60°-70°	6168.3	19.7
70°-80°	2524.2	8.1
80°-90°	268.7	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°	31334.0	100.0
0°-180°	31334.0	100.0

Coefficient of Utilization



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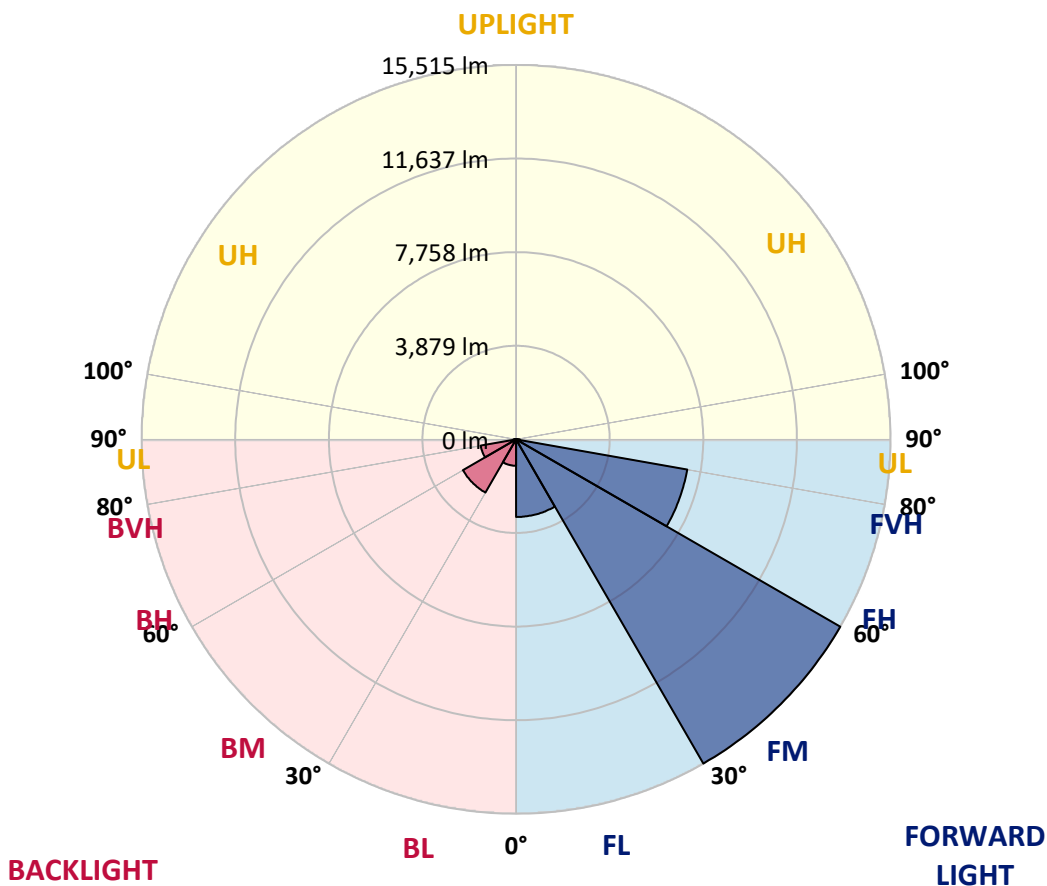
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3216.3	10.3			
FM (30°-60°)	15515.4	49.5			
FH (60°-80°)	7204.5	23.0			G3/7500
FVH (80°-90°)	160.3	0.5			G2/225
BL (0°-30°)	1095.7	3.5	B3/2500		
BM (30°-60°)	2545.3	8.1	B3/5000		
BH (60°-80°)	1488.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	108.5	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°	2967.2	2967.2	2967.2	2967.2	2967.2	2967.2	2967.2	2967.2	2967.2	2967.2	2967.2
2.5°	4158.9	4174.4	4123.7	4106.1	3987.1	3826.3	3691.9	3489.3	3302.0	3273.4	3106.0
5°	5282.4	5216.3	5159.0	5121.6	4956.4	4773.5	4489.4	4108.3	3709.6	3661.1	3299.8
7.5°	5949.8	5938.8	5868.3	5846.3	5718.6	5535.7	5242.7	4769.1	4189.8	4110.5	3562.0
10°	6485.1	6478.5	6443.3	6463.1	6346.4	6167.9	5883.8	5394.7	4716.3	4637.0	3855.0
12.5°	6952.1	6963.2	6956.5	7029.2	6969.8	6831.0	6535.8	5998.3	5242.7	5156.8	4211.8
15°	7293.6	7302.4	7335.4	7494.0	7527.1	7498.4	7198.9	6590.9	5762.6	5639.2	4579.7
17.5°	7390.5	7408.1	7487.4	7743.0	7921.4	8040.3	7817.8	7194.4	6273.7	6139.3	4954.2
20°	7520.5	7540.3	7619.6	7886.1	8148.3	8419.2	8379.6	7806.8	6789.1	6679.0	5333.1
22.5°	8121.8	8106.4	8071.2	8198.9	8386.2	8723.2	8822.3	8395.0	7322.2	7216.5	5751.6
25°	9280.5	9251.9	9027.2	8910.5	8848.8	9053.6	9229.9	8930.3	7842.1	7683.5	6141.5
27.5°	10558.2	10542.8	10256.4	9978.8	9599.9	9511.8	9615.4	9397.3	8346.5	8185.7	6480.7
30°	11767.5	11721.3	11421.7	11073.6	10567.0	10188.1	10036.1	9855.5	8899.4	8732.0	6877.2
32.5°	12849.1	12789.6	12437.2	12051.7	11520.8	11073.6	10619.9	10342.3	9525.0	9331.2	7282.6
35°	13736.9	13677.4	13316.1	12906.4	12322.6	11992.2	11371.0	10871.0	10161.7	9965.6	7760.6
37.5°	14424.1	14369.1	13992.4	13589.3	13080.4	12818.3	12278.6	11465.7	10895.2	10690.3	8267.2
40°	14809.6	14770.0	14468.2	14148.8	13721.4	13494.5	13252.2	12216.9	11716.9	11512.0	8864.2
42.5°	14926.4	14900.0	14688.5	14523.3	14234.7	14062.9	14201.7	13100.2	12593.6	12415.2	9536.1
45°	14633.4	14633.4	14571.7	14655.4	14668.7	14666.5	15153.3	14098.1	13670.8	13474.7	10483.3
47.5°	13884.4	13932.9	14023.2	14435.2	14869.1	15232.6	16265.7	15428.6	15056.4	14895.5	11824.8
50°	12514.3	12646.5	12954.9	13758.9	14681.9	15607.1	17318.7	17395.8	17750.4	17466.3	13798.5
52.5°	10507.5	10487.7	11274.1	12419.6	13827.2	15622.5	17898.0	19131.6	20085.4	19889.4	15265.6
55°	8350.9	8317.9	9051.4	10630.9	12516.5	15032.1	18246.1	19926.8	21380.7	21204.5	16585.1
57.5°	6394.8	6353.0	7005.0	8430.2	10666.1	13778.7	18180.0	20874.0	23162.8	23072.5	18378.2
60°	4401.3	4350.6	4960.8	6207.6	8476.5	11862.2	17448.6	21360.9	25248.9	25279.7	20296.9
62.5°	2643.4	2614.8	3057.5	4024.6	6097.4	9487.6	15737.0	21065.7	26909.8	27048.6	21530.5
65°	1594.8	1575.0	1835.0	2401.1	3868.2	6923.5	13098.0	19556.7	27149.9	27469.3	21559.1
67.5°	1160.9	1163.1	1238.0	1462.7	2255.7	4471.7	9829.0	16851.7	25898.7	26229.1	20200.0
70°	1008.9	1013.3	1053.0	1103.6	1363.6	2559.7	6390.4	13302.9	22200.1	22455.7	16942.0
72.5°	896.6	896.6	923.0	949.4	1066.2	1559.6	3423.2	9298.2	17521.3	17589.6	12930.6
75°	788.6	782.0	795.2	808.4	925.2	1090.4	1665.3	6478.5	12941.6	12783.0	8357.5
77.5°	627.8	621.2	623.4	636.6	742.4	779.8	843.7	4046.6	7293.6	6883.8	3691.9
80°	447.2	442.8	467.0	500.0	548.5	478.0	528.7	1958.3	2892.3	2691.9	1431.8
82.5°	266.5	275.4	312.8	339.2	378.9	299.6	341.4	654.2	1024.3	997.9	581.5
85°	37.4	39.7	112.3	130.0	163.0	116.8	180.6	295.2	409.7	438.4	204.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	15.4	52.9	116.8	119.0	50.7
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°	2967.2	2967.2	2967.2	2967.2	2967.2	2967.2	2967.2	2967.2	2967.2	2967.2	2967.2
2.5°	3020.1	2916.5	2769.0	2645.6	2542.1	2458.4	2387.9	2335.0	2319.6	2297.6	2297.6
5°	3130.2	2943.0	2678.6	2491.4	2383.5	2319.6	2275.5	2253.5	2242.5	2229.3	2222.7
7.5°	3282.2	3020.1	2663.2	2473.8	2390.1	2350.4	2321.8	2308.6	2299.8	2286.5	2286.5
10°	3491.5	3134.6	2711.7	2535.5	2469.4	2429.7	2396.7	2374.7	2354.8	2335.0	2330.6
12.5°	3718.4	3284.4	2799.8	2619.2	2548.7	2500.2	2454.0	2420.9	2396.7	2372.4	2365.8
15°	3969.5	3438.6	2894.5	2700.7	2612.6	2546.5	2491.4	2440.7	2407.7	2372.4	2368.0
17.5°	4216.2	3595.0	2973.8	2755.7	2643.4	2561.9	2482.6	2416.5	2374.7	2335.0	2324.0
20°	4511.4	3751.4	3028.9	2771.2	2636.8	2528.9	2434.1	2350.4	2304.2	2257.9	2251.3
22.5°	4782.3	3896.8	3055.3	2749.1	2586.1	2458.4	2348.2	2257.9	2207.2	2161.0	2152.2
25°	5044.5	4024.6	3044.3	2696.3	2509.0	2361.4	2246.9	2156.6	2108.1	2059.6	2046.4
27.5°	5297.8	4110.5	3000.3	2614.8	2412.1	2253.5	2143.4	2061.9	2020.0	1978.1	1960.5
30°	5546.7	4189.8	2932.0	2509.0	2288.7	2141.2	2050.8	1993.6	1951.7	1907.7	1894.4
32.5°	5797.9	4247.1	2828.4	2385.7	2163.2	2042.0	1987.0	1945.1	1901.0	1857.0	1843.8
35°	6051.2	4271.3	2702.9	2244.7	2057.4	1978.1	1958.3	1909.9	1850.4	1797.5	1779.9
37.5°	6353.0	4293.3	2546.5	2105.9	1964.9	1947.3	1942.9	1870.2	1799.7	1727.0	1707.2
40°	6716.4	4322.0	2385.7	1980.3	1890.0	1936.3	1918.7	1819.5	1678.6	1608.1	1586.0
42.5°	7161.4	4374.8	2218.3	1865.8	1835.0	1894.4	1874.6	1696.2	1601.5	1561.8	1550.8
45°	7815.6	4568.7	2050.8	1775.5	1793.1	1835.0	1804.1	1623.5	1586.0	1559.6	1546.4
47.5°	8980.9	4866.1	1905.4	1707.2	1760.1	1782.1	1663.1	1603.7	1575.0	1539.8	1524.4
50°	10192.5	4996.0	1788.7	1665.3	1722.6	1733.6	1586.0	1577.2	1557.4	1520.0	1504.5
52.5°	11012.0	4978.4	1718.2	1649.9	1691.8	1649.9	1550.8	1548.6	1535.4	1491.3	1473.7
55°	11937.1	5009.2	1687.4	1654.3	1678.6	1508.9	1506.7	1513.3	1506.7	1458.3	1449.5
57.5°	13186.1	5104.0	1671.9	1669.7	1669.7	1440.7	1464.9	1473.7	1460.5	1438.4	1431.8
60°	14386.7	5110.6	1643.3	1687.4	1663.1	1398.8	1416.4	1425.2	1409.8	1405.4	1403.2
62.5°	14838.3	4793.4	1579.4	1674.2	1636.7	1352.5	1365.8	1370.2	1354.7	1365.8	1363.6
65°	14166.4	4119.3	1473.7	1610.3	1555.2	1310.7	1301.9	1312.9	1286.5	1315.1	1317.3
67.5°	12578.2	3273.4	1312.9	1489.1	1440.7	1264.4	1246.8	1246.8	1202.7	1246.8	1244.6
70°	10141.8	2313.0	1077.2	1295.3	1315.1	1209.4	1200.5	1149.9	1079.4	1145.5	1138.9
72.5°	7687.9	1660.9	848.1	1024.3	1132.3	1132.3	1134.5	1048.5	967.0	997.9	971.4
75°	4870.5	1169.7	678.5	784.2	887.7	993.5	1044.1	885.5	812.8	799.6	786.4
77.5°	2194.0	768.8	528.7	601.4	630.0	784.2	953.8	762.2	663.1	634.4	625.6
80°	918.6	478.0	376.7	425.1	387.7	658.6	841.5	592.6	486.8	447.2	418.5
82.5°	403.1	284.2	240.1	229.1	242.3	489.0	627.8	394.3	304.0	411.9	416.3
85°	169.6	149.8	123.4	112.3	99.1	187.2	295.2	154.2	189.4	107.9	88.1
87.5°	39.7	44.1	33.0	22.0	13.2	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)