

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: P637835

Luminaire Tested: GWS-SA4D-750-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637835
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-SA4D-750-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25543.1 lumens
Efficiency: N/A
Efficacy: 157.6 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): 162.1
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

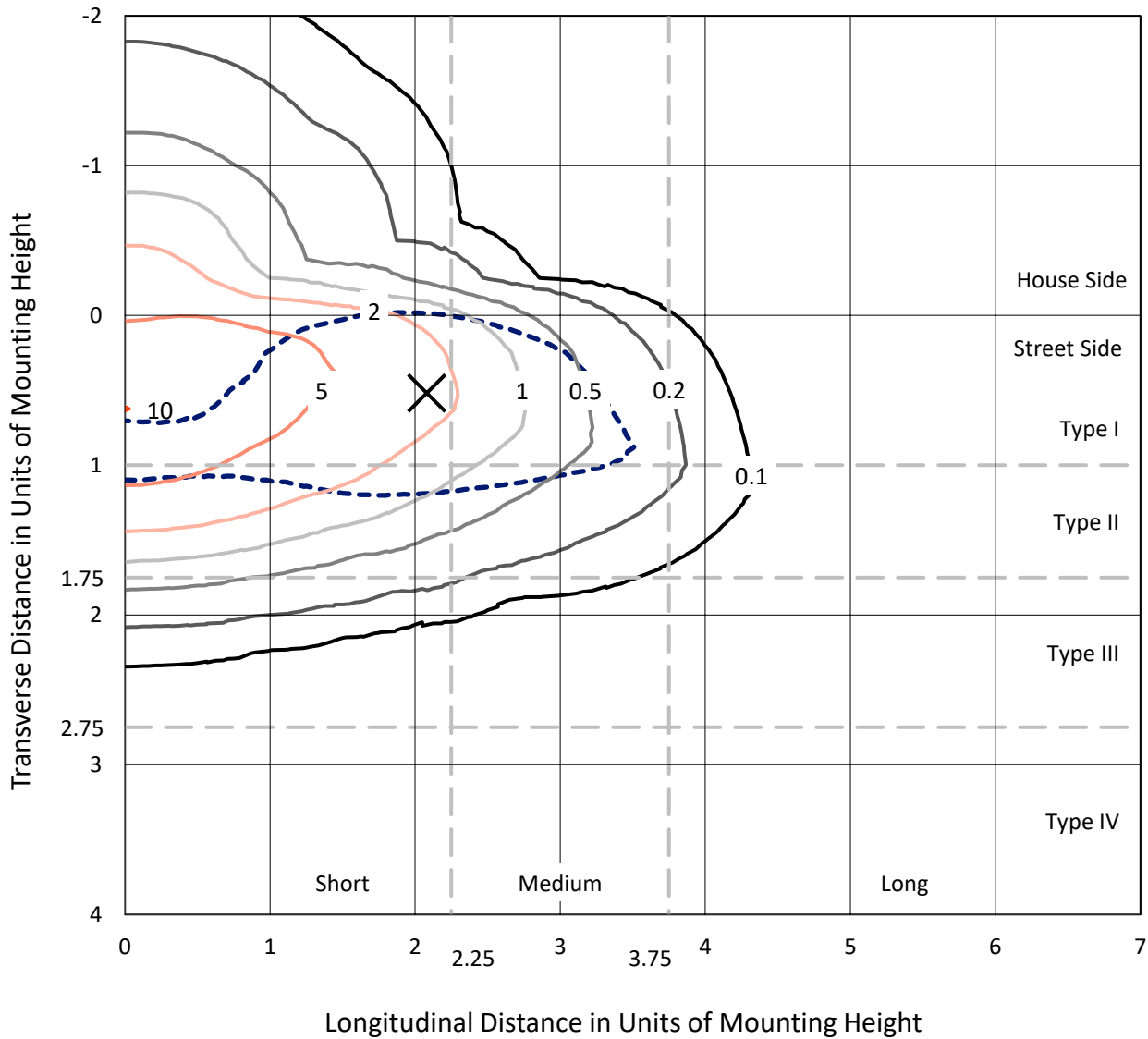


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Iso-Footcandle Lines of Horizontal Illumination

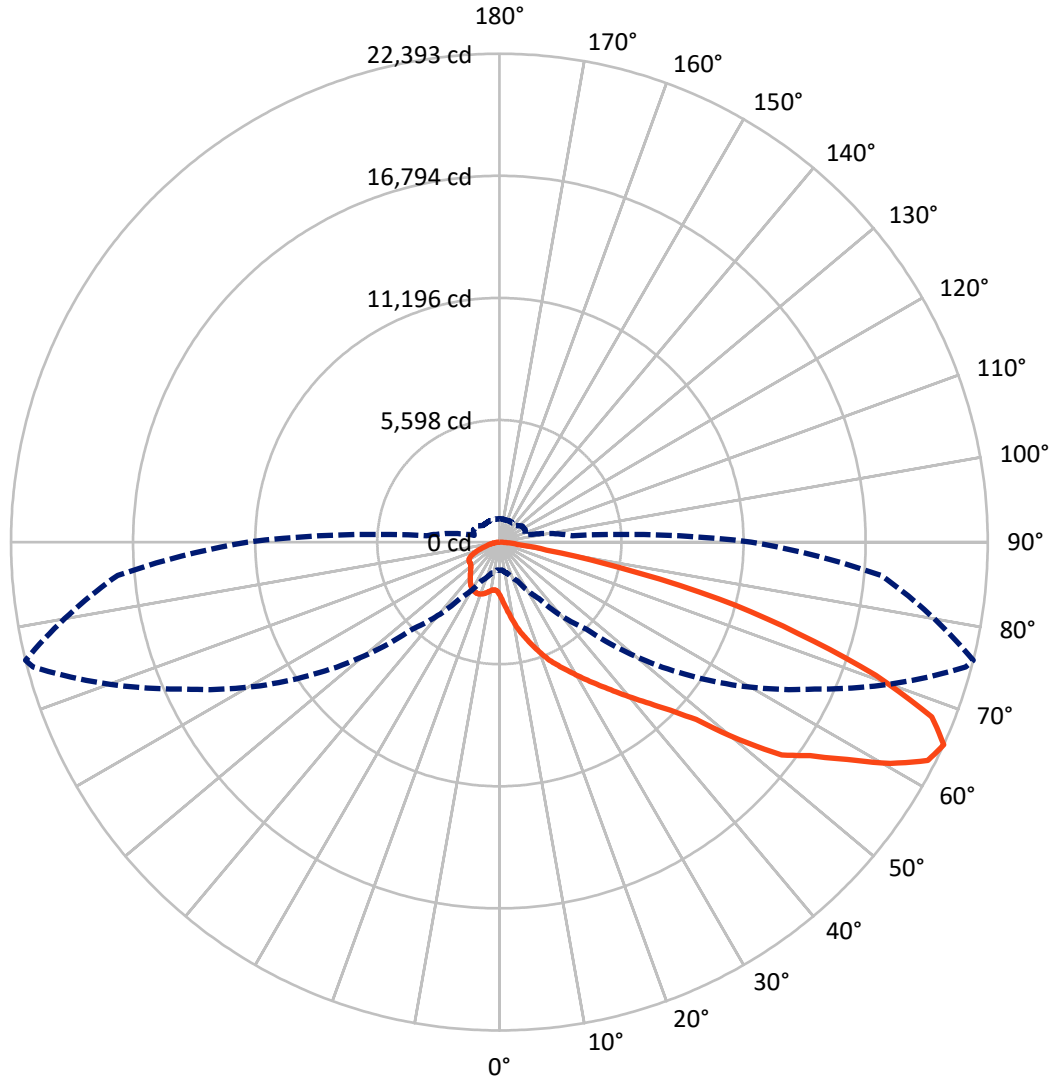
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	4269.6	0.0	4269.6
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	21273.6	0.0	21273.6
	% Fixture	83.3	0.0	83.3
Total	Lumens	25543.1	0.0	25543.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.4	1.1
10°-20°	1094.6	4.3
20°-30°	2133.2	8.4
30°-40°	3567.6	14.0
40°-50°	5108.1	20.0
50°-60°	6047.3	23.7
60°-70°	5028.3	19.7
70°-80°	2057.7	8.1
80°-90°	219.1	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°	25543.1	100.0
0°-180°	25543.1	100.0

Coefficient of Utilization



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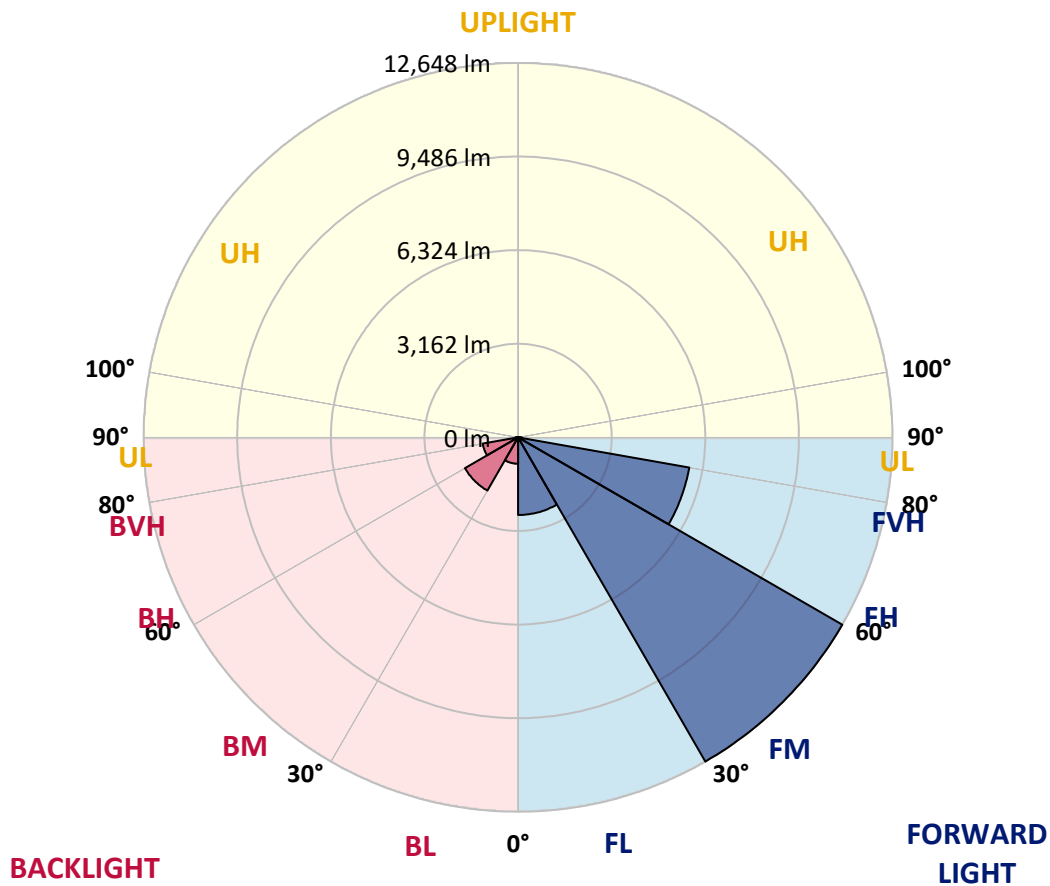
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2621.9	10.3			
FM (30°-60°)	12648.0	49.5			
FH (60°-80°)	5873.0	23.0			G3/7500
FVH (80°-90°)	130.7	0.5			G2/225
BL (0°-30°)	893.2	3.5	B2/1000		
BM (30°-60°)	2074.9	8.1	B2/2500		
BH (60°-80°)	1213.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	88.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2418.8	2418.8	2418.8	2418.8	2418.8	2418.8	2418.8	2418.8	2418.8	2418.8	2418.8
2.5°	3390.3	3402.9	3361.6	3347.2	3250.3	3119.2	3009.6	2844.4	2691.8	2668.4	2532.0
5°	4306.1	4252.3	4205.6	4175.1	4040.4	3891.3	3659.7	3349.0	3024.0	2984.5	2690.0
7.5°	4850.2	4841.3	4783.8	4765.8	4661.7	4512.6	4273.8	3887.7	3415.5	3350.8	2903.7
10°	5286.6	5281.2	5252.5	5268.6	5173.5	5028.0	4796.4	4397.7	3844.6	3780.0	3142.5
12.5°	5667.3	5676.3	5670.9	5730.1	5681.7	5568.5	5327.9	4889.8	4273.8	4203.8	3433.4
15°	5945.6	5952.8	5979.8	6109.0	6136.0	6112.6	5868.4	5372.8	4697.6	4597.0	3733.3
17.5°	6024.6	6039.0	6103.7	6312.0	6457.4	6554.4	6373.0	5864.8	5114.2	5004.7	4038.6
20°	6130.6	6146.8	6211.4	6428.7	6642.4	6863.2	6830.9	6364.0	5534.4	5444.6	4347.4
22.5°	6620.8	6608.3	6579.5	6683.7	6836.3	7111.1	7191.9	6843.5	5969.0	5882.8	4688.6
25°	7565.4	7542.0	7358.9	7263.7	7213.4	7380.4	7524.1	7279.9	6392.8	6263.5	5006.5
27.5°	8606.9	8594.3	8360.9	8134.6	7825.8	7753.9	7838.3	7660.5	6804.0	6672.9	5283.0
30°	9592.7	9555.0	9310.8	9027.1	8614.1	8305.2	8181.3	8034.1	7254.7	7118.2	5606.2
32.5°	10474.4	10426.0	10138.6	9824.4	9391.6	9027.1	8657.2	8430.9	7764.7	7606.7	5936.7
35°	11198.1	11149.6	10855.1	10521.1	10045.3	9775.9	9269.5	8861.9	8283.7	8123.8	6326.3
37.5°	11758.4	11713.5	11406.4	11077.8	10663.0	10449.3	10009.4	9346.7	8881.6	8714.6	6739.3
40°	12072.6	12040.3	11794.3	11533.9	11185.6	11000.6	10803.1	9959.1	9551.4	9384.4	7226.0
42.5°	12167.8	12146.3	11973.9	11839.2	11604.0	11463.9	11577.0	10679.2	10266.1	10120.7	7773.7
45°	11929.0	11929.0	11878.7	11946.9	11957.7	11955.9	12352.8	11492.6	11144.2	10984.4	8545.8
47.5°	11318.4	11357.9	11431.6	11767.4	12121.1	12417.4	13259.6	12577.2	12273.8	12142.7	9639.4
50°	10201.5	10309.2	10560.6	11216.1	11968.5	12722.7	14118.0	14180.8	14469.9	14238.3	11248.4
52.5°	8565.6	8549.4	9190.5	10124.3	11271.7	12735.3	14590.2	15595.8	16373.4	16213.6	12444.4
55°	6807.6	6780.6	7378.6	8666.2	10203.3	12254.0	14874.0	16244.1	17429.3	17285.6	13520.0
57.5°	5213.0	5178.9	5710.4	6872.2	8694.9	11232.2	14820.1	17016.3	18882.0	18808.4	14981.7
60°	3587.9	3546.6	4044.0	5060.3	6909.9	9670.0	14223.9	17413.1	20582.6	20607.7	16545.8
62.5°	2154.9	2131.5	2492.5	3280.8	4970.6	7734.2	12828.6	17172.5	21936.5	22049.7	17551.4
65°	1300.1	1283.9	1495.8	1957.3	3153.3	5644.0	10677.4	15942.4	22132.3	22392.6	17574.7
67.5°	946.3	948.1	1009.2	1192.4	1838.8	3645.3	8012.5	13737.3	21112.3	21381.7	16466.8
70°	822.4	826.0	858.4	899.7	1111.6	2086.6	5209.4	10844.4	18097.3	18305.6	13810.9
72.5°	730.9	730.9	752.4	774.0	869.1	1271.4	2790.6	7579.7	14283.2	14338.8	10540.9
75°	642.9	637.5	648.3	659.0	754.2	888.9	1357.6	5281.2	10549.9	10420.6	6813.0
77.5°	511.8	506.4	508.2	519.0	605.2	635.7	687.8	3298.7	5945.6	5611.6	3009.6
80°	364.5	360.9	380.7	407.6	447.1	389.7	431.0	1596.4	2357.8	2194.4	1167.2
82.5°	217.3	224.5	255.0	276.5	308.9	244.2	278.3	533.3	835.0	813.5	474.1
85°	30.5	32.3	91.6	105.9	132.9	95.2	147.2	240.6	334.0	357.3	167.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	12.6	43.1	95.2	97.0	41.3
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°	2418.8	2418.8	2418.8	2418.8	2418.8	2418.8	2418.8	2418.8	2418.8	2418.8	2418.8
2.5°	2461.9	2377.5	2257.2	2156.7	2072.3	2004.0	1946.6	1903.5	1890.9	1872.9	1872.9
5°	2551.7	2399.1	2183.6	2031.0	1943.0	1890.9	1855.0	1837.0	1828.0	1817.3	1811.9
7.5°	2675.6	2461.9	2171.0	2016.6	1948.4	1916.0	1892.7	1881.9	1874.7	1864.0	1864.0
10°	2846.2	2555.3	2210.5	2066.9	2013.0	1980.7	1953.7	1935.8	1919.6	1903.5	1899.9
12.5°	3031.2	2677.4	2282.4	2135.1	2077.7	2038.1	2000.4	1973.5	1953.7	1934.0	1928.6
15°	3235.9	2803.1	2359.6	2201.6	2129.7	2075.9	2031.0	1989.7	1962.7	1934.0	1930.4
17.5°	3437.0	2930.6	2424.2	2246.4	2154.9	2088.4	2023.8	1969.9	1935.8	1903.5	1894.5
20°	3677.6	3058.1	2469.1	2259.0	2149.5	2061.5	1984.3	1916.0	1878.3	1840.6	1835.2
22.5°	3898.5	3176.6	2490.7	2241.1	2108.2	2004.0	1914.2	1840.6	1799.3	1761.6	1754.4
25°	4112.2	3280.8	2481.7	2198.0	2045.3	1925.0	1831.6	1758.0	1718.5	1679.0	1668.2
27.5°	4318.7	3350.8	2445.8	2131.5	1966.3	1837.0	1747.2	1680.8	1646.7	1612.6	1598.2
30°	4521.6	3415.5	2390.1	2045.3	1865.8	1745.4	1671.8	1625.1	1591.0	1555.1	1544.3
32.5°	4726.3	3462.2	2305.7	1944.8	1763.4	1664.6	1619.7	1585.6	1549.7	1513.8	1503.0
35°	4932.8	3481.9	2203.4	1829.8	1677.2	1612.6	1596.4	1556.9	1508.4	1465.3	1450.9
37.5°	5178.9	3499.9	2075.9	1716.7	1601.8	1587.4	1583.8	1524.6	1467.1	1407.8	1391.7
40°	5475.2	3523.2	1944.8	1614.4	1540.7	1578.4	1564.1	1483.3	1368.3	1310.9	1292.9
42.5°	5837.9	3566.3	1808.3	1521.0	1495.8	1544.3	1528.2	1382.7	1305.5	1273.2	1264.2
45°	6371.2	3724.3	1671.8	1447.4	1461.7	1495.8	1470.7	1323.4	1292.9	1271.4	1260.6
47.5°	7321.2	3966.7	1553.3	1391.7	1434.8	1452.7	1355.8	1307.3	1283.9	1255.2	1242.6
50°	8308.8	4072.7	1458.1	1357.6	1404.3	1413.2	1292.9	1285.7	1269.6	1239.0	1226.5
52.5°	8976.8	4058.3	1400.7	1345.0	1379.1	1345.0	1264.2	1262.4	1251.6	1215.7	1201.3
55°	9731.0	4083.5	1375.5	1348.6	1368.3	1230.1	1228.3	1233.7	1228.3	1188.8	1181.6
57.5°	10749.2	4160.7	1363.0	1361.2	1361.2	1174.4	1194.2	1201.3	1190.6	1172.6	1167.2
60°	11727.9	4166.1	1339.6	1375.5	1355.8	1140.3	1154.6	1161.8	1149.3	1145.7	1143.9
62.5°	12096.0	3907.5	1287.5	1364.7	1334.2	1102.6	1113.3	1116.9	1104.4	1113.3	1111.6
65°	11548.3	3358.0	1201.3	1312.7	1267.8	1068.5	1061.3	1070.3	1048.7	1072.0	1073.8
67.5°	10253.6	2668.4	1070.3	1213.9	1174.4	1030.7	1016.4	1016.4	980.5	1016.4	1014.6
70°	8267.5	1885.5	878.1	1055.9	1072.0	985.9	978.7	937.4	879.9	933.8	928.4
72.5°	6267.1	1354.0	691.4	835.0	923.0	923.0	924.8	854.8	788.3	813.5	791.9
75°	3970.3	953.5	553.1	639.3	723.7	809.9	851.2	721.9	662.6	651.8	641.1
77.5°	1788.5	626.7	431.0	490.2	513.6	639.3	777.5	621.3	540.5	517.2	510.0
80°	748.8	389.7	307.1	346.6	316.0	536.9	686.0	483.0	396.9	364.5	341.2
82.5°	328.6	231.6	195.7	186.8	197.5	398.7	511.8	321.4	247.8	335.8	339.4
85°	138.3	122.1	100.6	91.6	80.8	152.6	240.6	125.7	154.4	88.0	71.8
87.5°	32.3	35.9	26.9	18.0	10.8	1.8	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)