

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: P638990

Luminaire Tested: GWS-SA4F-830-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638990
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-SA4F-830-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27560.6 lumens
Efficiency: N/A
Efficacy: 122.3 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): 225.3
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

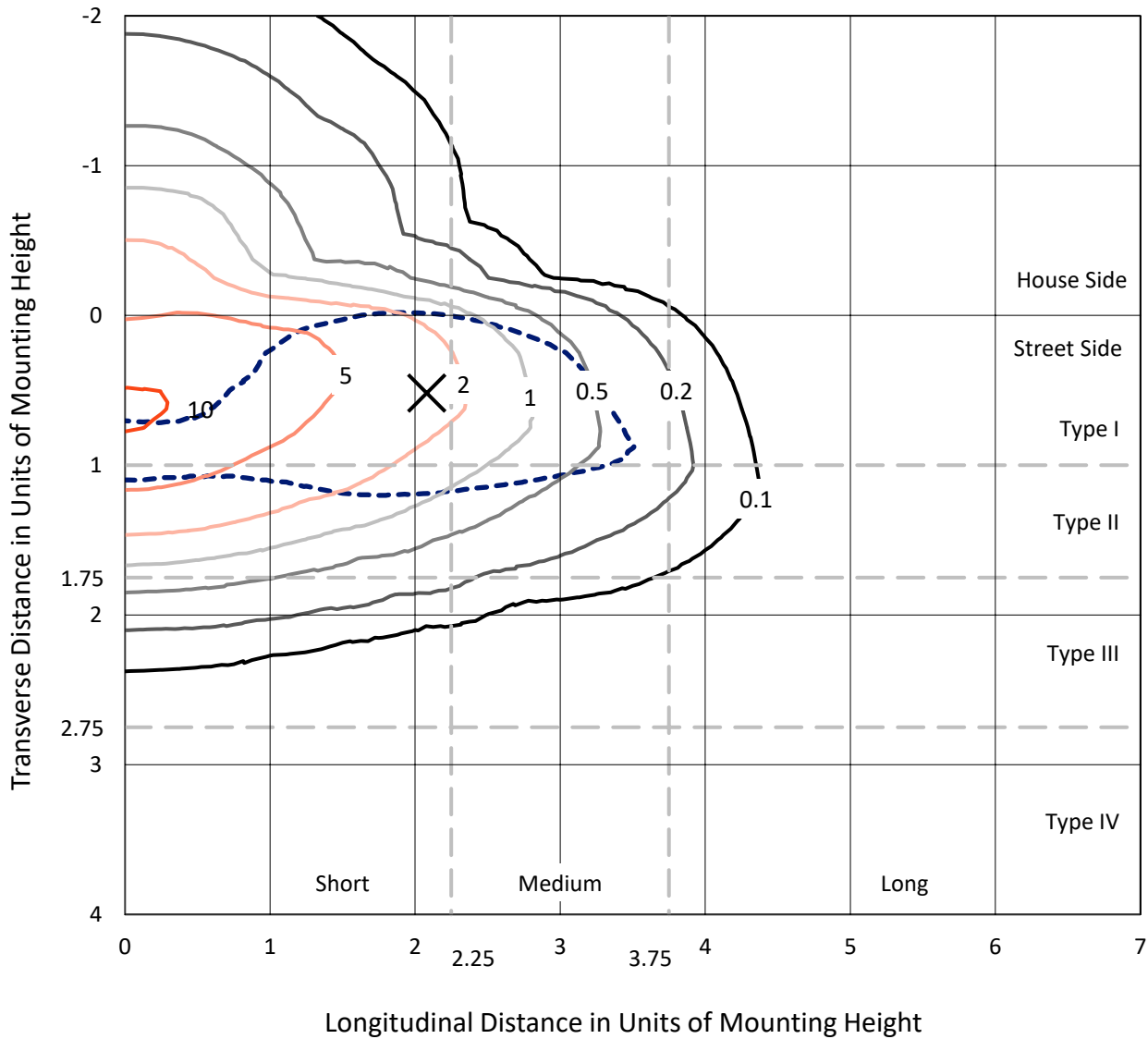


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Iso-Footcandle Lines of Horizontal Illumination

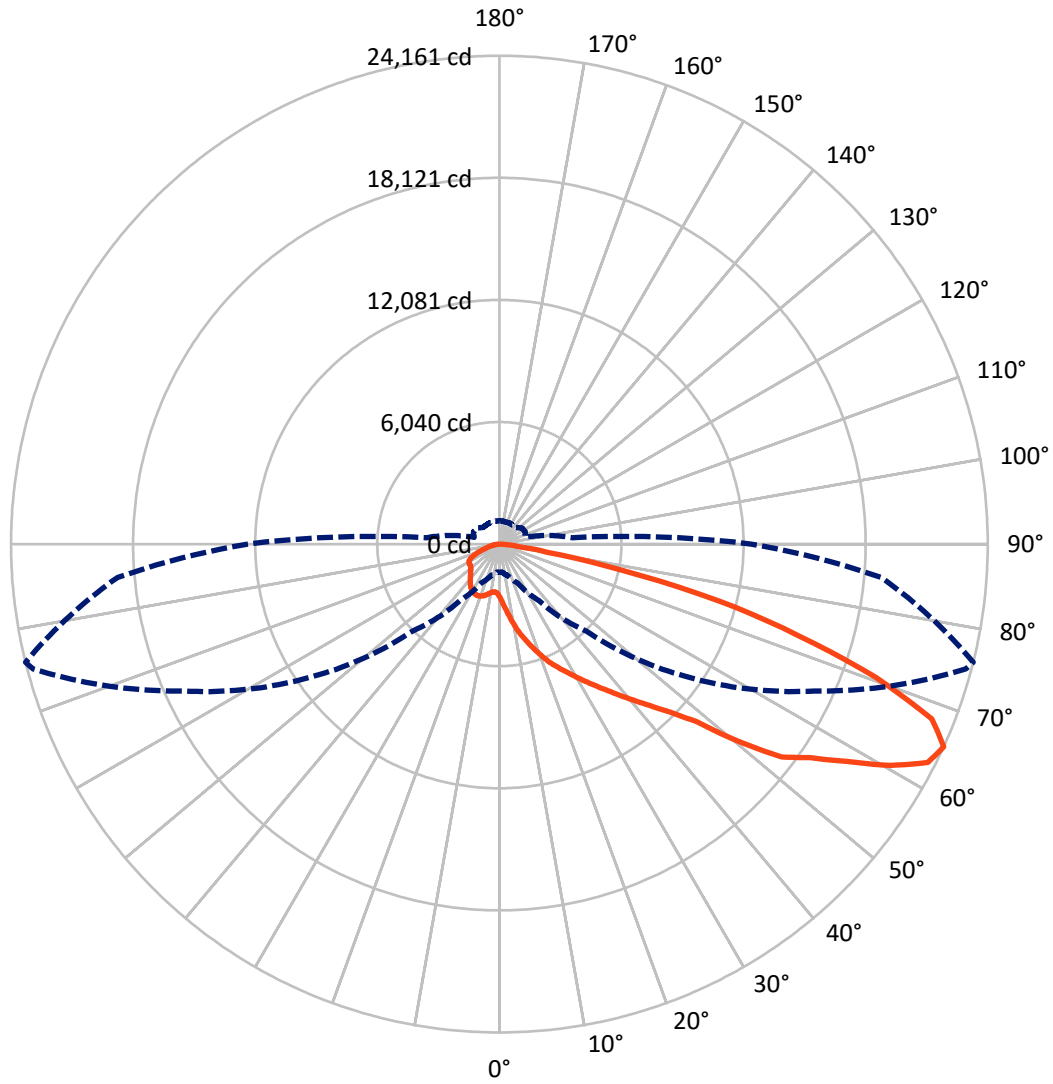
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	4606.8	0.0	4606.8
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	22953.8	0.0	22953.8
	% Fixture	83.3	0.0	83.3
Total	Lumens	27560.6	0.0	27560.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.1	1.1
10°-20°	1181.0	4.3
20°-30°	2301.6	8.4
30°-40°	3849.4	14.0
40°-50°	5511.5	20.0
50°-60°	6524.9	23.7
60°-70°	5425.5	19.7
70°-80°	2220.2	8.1
80°-90°	236.4	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°	27560.6	100.0
0°-180°	27560.6	100.0

Coefficient of Utilization



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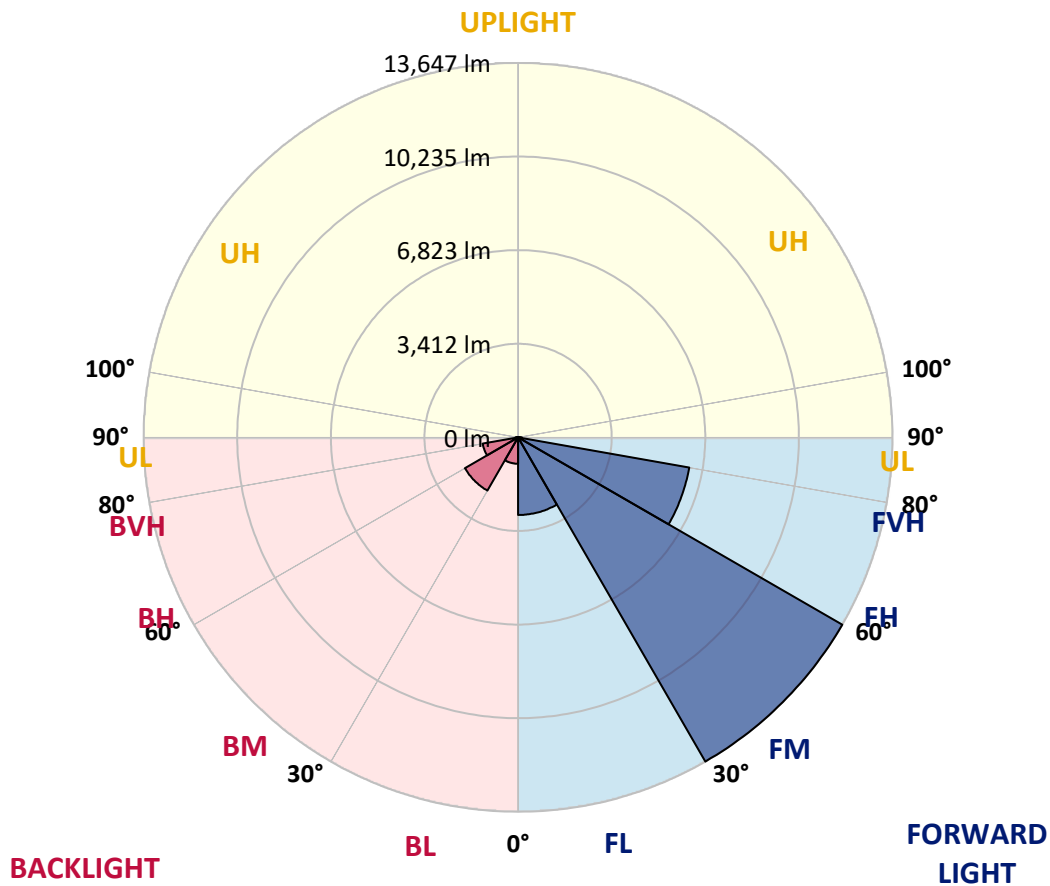
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2829.0	10.3			
FM (30°-60°)	13647.0	49.5			
FH (60°-80°)	6336.9	23.0			G3/7500
FVH (80°-90°)	141.0	0.5			G2/225
BL (0°-30°)	963.7	3.5	B2/1000		
BM (30°-60°)	2238.8	8.1	B2/2500		
BH (60°-80°)	1308.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	95.4	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°	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9
2.5°	3658.1	3671.7	3627.1	3611.6	3507.0	3365.5	3247.3	3069.1	2904.4	2879.2	2732.0
5°	4646.3	4588.1	4537.8	4504.8	4359.5	4198.7	3948.7	3613.5	3262.8	3220.2	2902.5
7.5°	5233.3	5223.6	5161.6	5142.3	5029.9	4869.1	4611.4	4194.8	3685.2	3615.5	3133.0
10°	5704.2	5698.4	5667.3	5684.8	5582.1	5425.2	5175.2	4745.1	4148.3	4078.6	3390.7
12.5°	6114.9	6124.6	6118.8	6182.7	6130.4	6008.4	5748.7	5276.0	4611.4	4535.8	3704.6
15°	6415.2	6423.0	6452.1	6591.6	6620.6	6595.4	6331.9	5797.2	5068.6	4960.1	4028.2
17.5°	6500.5	6516.0	6585.8	6810.5	6967.4	7072.1	6876.4	6328.1	5518.2	5400.0	4357.6
20°	6614.8	6632.3	6702.0	6936.4	7167.0	7405.3	7370.5	6866.7	5971.5	5874.7	4690.8
22.5°	7143.8	7130.2	7099.2	7211.6	7376.3	7672.7	7759.9	7384.0	6440.4	6347.4	5059.0
25°	8162.9	8137.7	7940.1	7837.4	7783.2	7963.4	8118.4	7854.8	6897.7	6758.2	5401.9
27.5°	9286.7	9273.1	9021.3	8777.1	8443.9	8366.4	8457.4	8265.6	7341.4	7200.0	5700.3
30°	10350.4	10309.7	10046.2	9740.1	9294.5	8961.2	8827.5	8668.6	7827.7	7680.5	6049.0
32.5°	11301.8	11249.4	10939.4	10600.4	10133.4	9740.1	9341.0	9096.8	8378.0	8207.5	6405.6
35°	12082.6	12030.3	11712.5	11352.1	10838.7	10548.1	10001.7	9561.8	8937.9	8765.5	6826.0
37.5°	12687.1	12638.7	12307.4	11952.8	11505.2	11274.6	10799.9	10085.0	9583.1	9403.0	7271.6
40°	13026.2	12991.3	12725.9	12444.9	12069.0	11869.5	11656.3	10745.7	10305.9	10125.7	7796.7
42.5°	13128.9	13105.6	12919.6	12774.3	12520.5	12369.4	12491.4	11522.6	11077.0	10920.1	8387.7
45°	12871.2	12871.2	12816.9	12890.6	12902.2	12900.2	13328.4	12400.4	12024.5	11852.0	9220.8
47.5°	12212.4	12255.0	12334.5	12696.8	13078.5	13398.2	14306.9	13570.6	13243.2	13101.7	10400.8
50°	11007.3	11123.5	11394.8	12102.0	12913.8	13727.6	15233.1	15300.9	15612.8	15362.9	12136.8
52.5°	9242.1	9224.7	9916.4	10923.9	12162.0	13741.1	15742.6	16827.7	17666.6	17494.2	13427.3
55°	7345.3	7316.2	7961.4	9350.6	11009.2	13221.9	16048.8	17527.1	18805.9	18650.9	14587.9
57.5°	5624.7	5587.9	6161.4	7415.0	9381.6	12119.4	15990.6	18360.3	20373.4	20294.0	16165.0
60°	3871.2	3826.7	4363.4	5460.0	7455.7	10433.7	15347.4	18788.5	22208.3	22235.4	17852.6
62.5°	2325.1	2299.9	2689.3	3539.9	5363.2	8345.1	13841.9	18528.8	23669.2	23791.2	18937.7
65°	1402.8	1385.4	1614.0	2111.9	3402.3	6089.7	11520.7	17201.6	23880.4	24161.3	18962.9
67.5°	1021.1	1023.0	1088.9	1286.5	1984.1	3933.2	8645.4	14822.3	22779.8	23070.5	17767.4
70°	887.4	891.3	926.2	970.7	1199.3	2251.4	5620.8	11700.9	19526.7	19751.4	14901.7
72.5°	788.6	788.6	811.8	835.1	937.8	1371.8	3011.0	8178.4	15411.3	15471.4	11373.4
75°	693.6	687.8	699.5	711.1	813.8	959.1	1464.8	5698.4	11383.1	11243.6	7351.1
77.5°	552.2	546.4	548.3	560.0	653.0	685.9	742.1	3559.3	6415.2	6054.9	3247.3
80°	393.3	389.4	410.8	439.8	482.5	420.4	465.0	1722.5	2544.0	2367.7	1259.4
82.5°	234.4	242.2	275.1	298.4	333.3	263.5	300.3	575.5	901.0	877.7	511.5
85°	32.9	34.9	98.8	114.3	143.4	102.7	158.9	259.6	360.4	385.6	180.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	13.6	46.5	102.7	104.6	44.6
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°	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9
2.5°	2656.4	2565.3	2435.5	2327.0	2235.9	2162.3	2100.3	2053.8	2040.2	2020.9	2020.9
5°	2753.3	2588.6	2356.1	2191.4	2096.4	2040.2	2001.5	1982.1	1972.4	1960.8	1955.0
7.5°	2887.0	2656.4	2342.5	2175.9	2102.2	2067.4	2042.2	2030.6	2022.8	2011.2	2011.2
10°	3071.0	2757.1	2385.1	2230.1	2172.0	2137.1	2108.1	2088.7	2071.2	2053.8	2049.9
12.5°	3270.6	2888.9	2462.6	2303.8	2241.8	2199.1	2158.4	2129.4	2108.1	2086.7	2080.9
15°	3491.5	3024.5	2545.9	2375.4	2297.9	2239.8	2191.4	2146.8	2117.7	2086.7	2082.9
17.5°	3708.5	3162.1	2615.7	2423.9	2325.1	2253.4	2183.6	2125.5	2088.7	2053.8	2044.1
20°	3968.1	3299.7	2664.1	2437.4	2319.3	2224.3	2141.0	2067.4	2026.7	1986.0	1980.2
22.5°	4206.4	3427.5	2687.4	2418.1	2274.7	2162.3	2065.4	1986.0	1941.4	1900.7	1893.0
25°	4437.0	3539.9	2677.7	2371.6	2206.9	2077.1	1976.3	1896.9	1854.2	1811.6	1800.0
27.5°	4659.8	3615.5	2639.0	2299.9	2121.6	1982.1	1885.2	1813.6	1776.7	1739.9	1724.4
30°	4878.8	3685.2	2578.9	2206.9	2013.1	1883.3	1803.9	1753.5	1716.7	1677.9	1666.3
32.5°	5099.6	3735.6	2487.8	2098.4	1902.7	1796.1	1747.7	1710.9	1672.1	1633.4	1621.7
35°	5322.5	3756.9	2377.4	1974.4	1809.7	1739.9	1722.5	1679.9	1627.5	1581.0	1565.5
37.5°	5587.9	3776.3	2239.8	1852.3	1728.3	1712.8	1708.9	1645.0	1583.0	1519.0	1501.6
40°	5907.6	3801.5	2098.4	1741.9	1662.4	1703.1	1687.6	1600.4	1476.4	1414.4	1395.0
42.5°	6299.0	3848.0	1951.1	1641.1	1614.0	1666.3	1648.9	1491.9	1408.6	1373.7	1364.0
45°	6874.4	4018.5	1803.9	1561.7	1577.2	1614.0	1586.9	1428.0	1395.0	1371.8	1360.2
47.5°	7899.4	4280.1	1676.0	1501.6	1548.1	1567.5	1462.9	1410.5	1385.4	1354.4	1340.8
50°	8965.1	4394.4	1573.3	1464.8	1515.2	1524.9	1395.0	1387.3	1369.9	1336.9	1323.4
52.5°	9685.8	4378.9	1511.3	1451.2	1488.0	1451.2	1364.0	1362.1	1350.5	1311.7	1296.2
55°	10499.6	4406.0	1484.2	1455.1	1476.4	1327.2	1325.3	1331.1	1325.3	1282.7	1274.9
57.5°	11598.2	4489.3	1470.6	1468.7	1468.7	1267.2	1288.5	1296.2	1284.6	1265.2	1259.4
60°	12654.2	4495.1	1445.4	1484.2	1462.9	1230.3	1245.8	1253.6	1240.0	1236.2	1234.2
62.5°	13051.4	4216.1	1389.2	1472.5	1439.6	1189.7	1201.3	1205.2	1191.6	1201.3	1199.3
65°	12460.4	3623.2	1296.2	1416.4	1367.9	1152.8	1145.1	1154.8	1131.5	1156.7	1158.7
67.5°	11063.4	2879.2	1154.8	1309.8	1267.2	1112.2	1096.7	1096.7	1057.9	1096.7	1094.7
70°	8920.5	2034.4	947.5	1139.3	1156.7	1063.7	1056.0	1011.4	949.4	1007.5	1001.7
72.5°	6762.1	1460.9	746.0	901.0	995.9	995.9	997.8	922.3	850.6	877.7	854.5
75°	4283.9	1028.8	596.8	689.8	780.8	873.8	918.4	778.9	715.0	703.3	691.7
77.5°	1929.8	676.2	465.0	529.0	554.1	689.8	839.0	670.4	583.2	558.0	550.3
80°	808.0	420.4	331.3	373.9	341.0	579.3	740.1	521.2	428.2	393.3	368.1
82.5°	354.6	249.9	211.2	201.5	213.1	430.1	552.2	346.8	267.4	362.3	366.2
85°	149.2	131.8	108.5	98.8	87.2	164.7	259.6	135.6	166.6	94.9	77.5
87.5°	34.9	38.8	29.1	19.4	11.6	1.9	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)