

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: P638795

Luminaire Tested: GWS-SA4F-750-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-750-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35441.7 lumens
Efficiency: N/A
Efficacy: 157.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

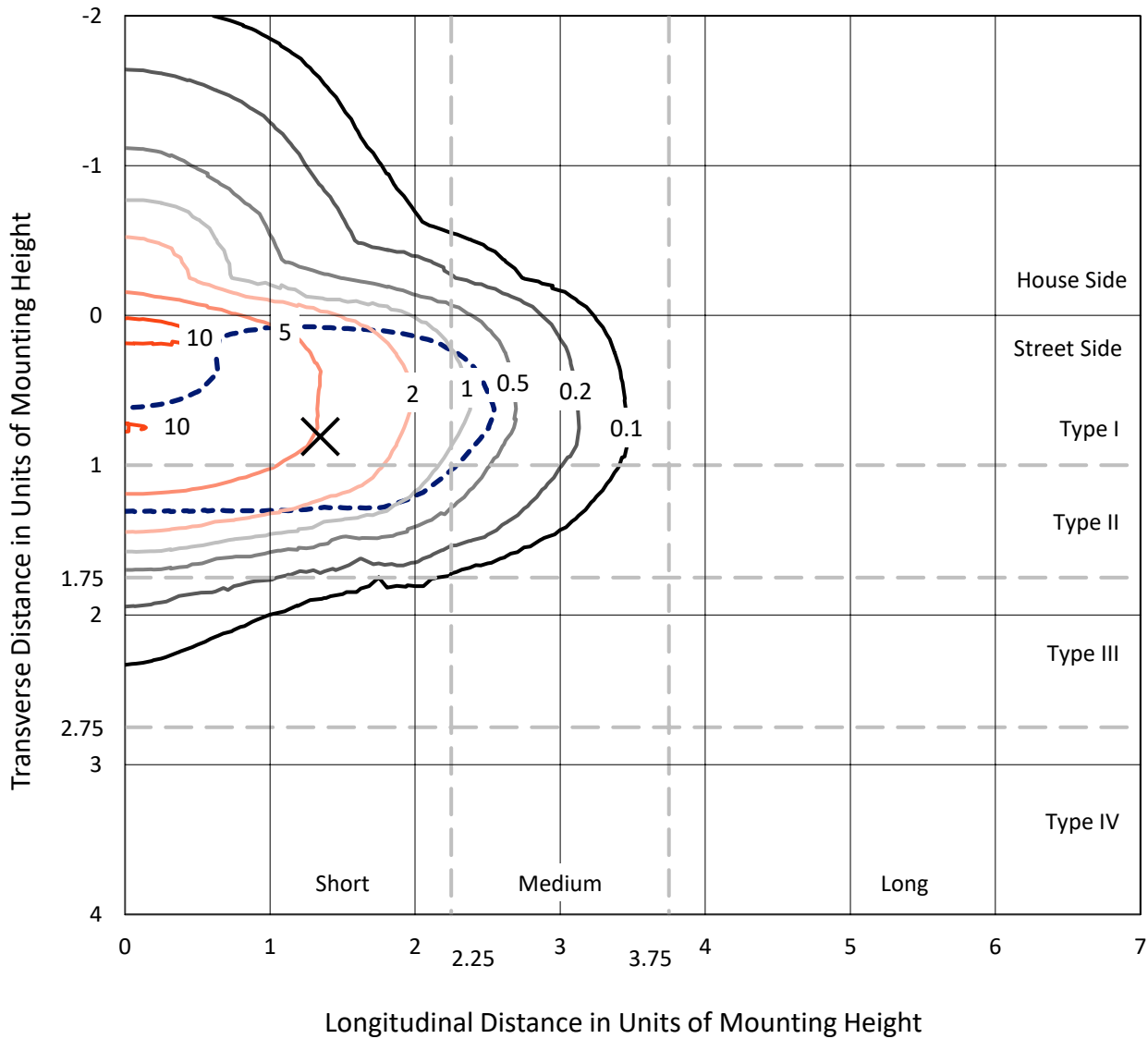
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

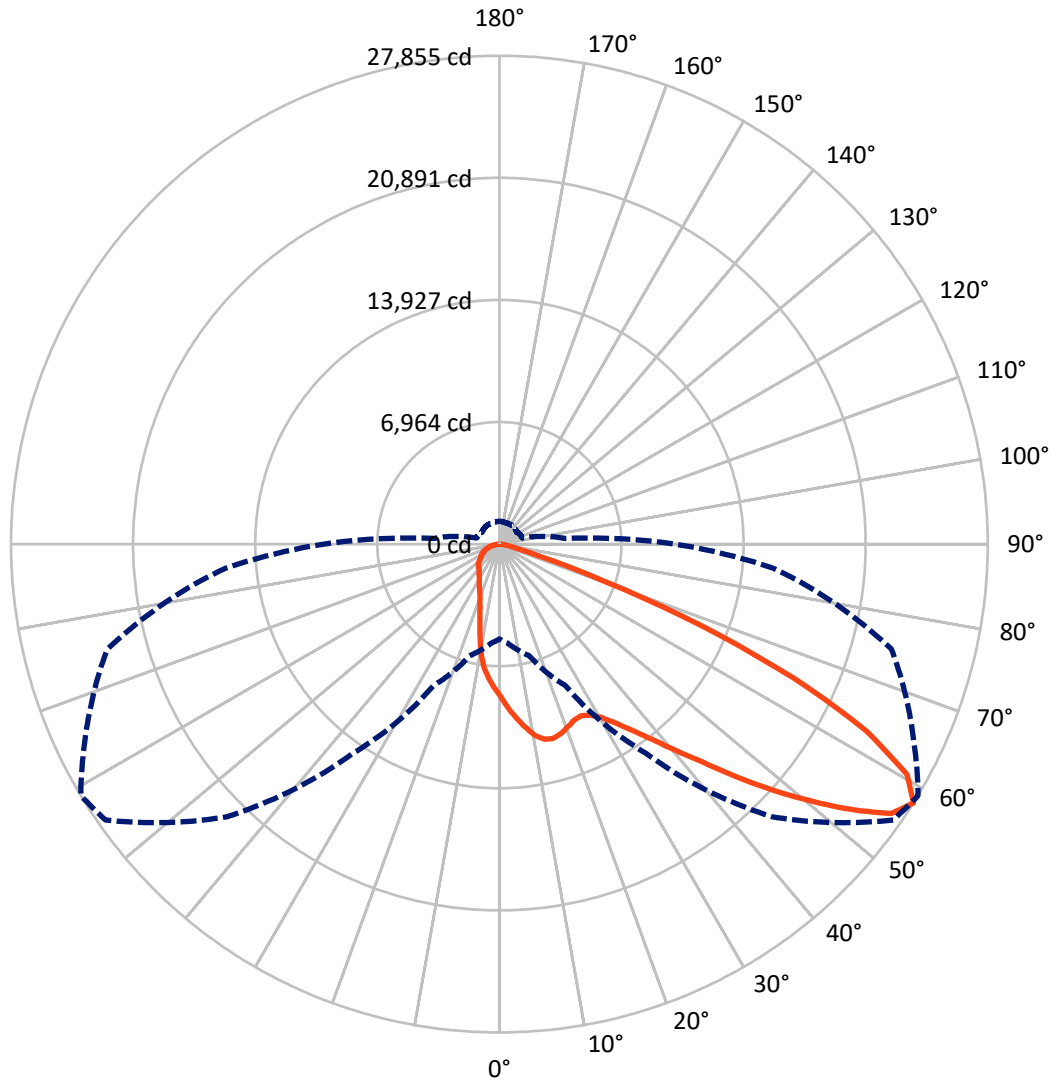
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5500.4	0.0	5500.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	29941.3	0.0	29941.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	35441.7	0.0	35441.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	807.8	2.3
10°-20°	2047.0	5.8
20°-30°	3318.3	9.4
30°-40°	5337.9	15.1
40°-50°	8289.2	23.4
50°-60°	8928.6	25.2
60°-70°	5181.8	14.6
70°-80°	1352.8	3.8
80°-90°	178.2	0.5
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°	35441.7	100.0
0°-180°	35441.7	100.0

Coefficient of Utilization



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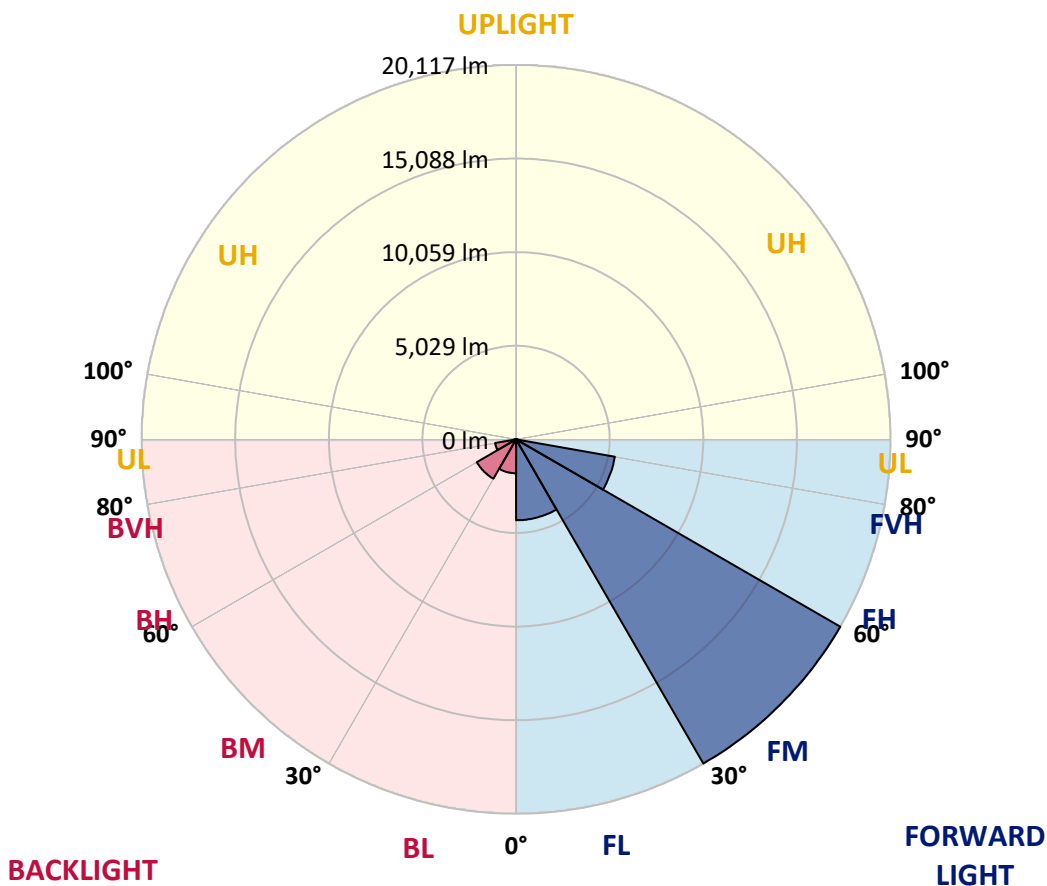
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4348.4	12.3			
FM (30°-60°)	20117.1	56.8			
FH (60°-80°)	5390.5	15.2			G3/7500
FVH (80°-90°)	85.3	0.2			G1/100
BL (0°-30°)	1824.8	5.1	B3/2500		
BM (30°-60°)	2438.6	6.9	B2/2500		
BH (60°-80°)	1144.1	3.2	B3/2500		G3/2500
BVH (80°-90°)	92.9	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°	59°	65°	75°	85°
0°	8700.2	8700.2	8700.2	8700.2	8700.2	8700.2	8700.2	8700.2	8700.2	8700.2	8700.2
2.5°	9867.9	9785.6	9843.0	9740.7	9698.2	9586.0	9441.3	9344.0	9194.2	8999.6	8830.0
5°	10848.5	10791.1	10803.6	10693.8	10596.5	10409.3	10112.4	9947.8	9693.3	9301.5	8937.3
7.5°	10818.5	10885.9	10923.3	11018.1	11045.6	11028.1	10761.1	10531.6	10252.1	9663.3	9114.4
10°	9698.2	9825.5	9940.3	10264.6	10658.8	11157.8	11220.2	11083.0	10801.1	10124.9	9326.5
12.5°	8478.2	8575.5	8677.8	9067.0	9670.8	10668.8	11345.0	11429.8	11317.5	10581.5	9566.0
15°	7879.4	7924.3	8021.6	8278.6	8760.1	9867.9	11127.9	11499.7	11701.8	11065.5	9835.5
17.5°	7854.4	7874.4	7921.8	8059.0	8393.3	9249.1	10736.2	11359.9	12003.7	11577.0	10149.9
20°	8370.9	8318.5	8288.5	8286.1	8450.7	9042.1	10356.9	11135.4	12145.9	12101.0	10486.7
22.5°	9087.0	9104.4	9039.6	8879.9	8859.9	9189.3	10167.3	10908.3	12188.3	12565.1	10798.6
25°	10102.4	10189.8	9997.7	9693.3	9543.6	9615.9	10284.6	10838.5	12183.3	12951.8	10993.2
27.5°	11287.6	11355.0	11160.3	10761.1	10451.8	10277.1	10633.9	11045.6	12225.7	13286.1	11110.4
30°	12637.4	12659.9	12392.9	11973.7	11522.1	11147.9	11215.2	11472.2	12442.8	13725.3	11247.7
32.5°	14286.6	14381.5	13977.3	13313.6	12682.3	12203.3	11996.2	12160.9	12911.9	14244.2	11459.8
35°	16380.0	16412.4	15898.4	14947.8	14054.6	13390.9	12956.8	13044.1	13625.5	14970.3	11779.1
37.5°	18353.6	18386.0	17839.6	16956.3	15678.9	14770.7	14141.9	14102.0	14538.6	15995.7	12300.6
40°	19606.1	19698.4	19453.9	18900.0	17679.9	16454.8	15601.5	15464.3	15736.3	17250.8	13026.6
42.5°	20279.7	20319.7	20314.7	20387.0	19661.0	18443.4	17248.3	16973.8	17155.9	18605.6	13760.2
45°	20284.7	20384.5	20651.5	21347.6	21380.1	20621.6	19329.1	18900.0	18732.8	19970.4	14526.2
47.5°	19376.5	19483.8	20217.4	21587.1	22597.6	22769.8	21821.7	20960.9	20257.3	21145.5	15154.9
50°	16627.0	16896.5	18293.7	20716.4	22837.2	24491.4	24199.5	23031.8	21612.1	22053.7	15549.1
52.5°	14239.2	14229.3	15090.0	18256.3	21836.7	25249.9	26499.9	25162.5	22951.9	22630.1	15648.9
55°	10426.8	10484.2	11364.9	13962.3	19167.0	24516.3	27764.9	27123.7	24488.9	22937.0	15609.0
57.5°	5406.8	5691.2	6594.4	8909.8	14563.6	21991.3	27428.1	27854.7	26050.8	23154.0	15661.4
60°	2732.1	2677.2	3001.5	4254.1	8438.2	17175.9	25352.2	26712.0	26332.7	23323.7	15693.8
62.5°	1823.9	1808.9	1719.1	1971.1	3448.2	10172.3	21612.1	23518.3	24374.1	22924.5	15279.7
65°	1579.4	1549.4	1384.8	1374.8	1674.2	4219.1	15841.1	18488.3	20145.0	21150.5	14289.1
67.5°	1422.2	1377.3	1210.1	1127.8	1202.6	1853.8	8927.3	12400.4	14875.5	17887.0	12118.4
70°	1270.0	1247.5	1080.4	960.6	953.1	1130.3	3288.5	6399.8	9101.9	12203.3	8859.9
72.5°	1137.7	1097.8	955.6	840.8	783.4	800.9	1427.2	2465.1	4710.6	7612.4	5299.5
75°	985.5	955.6	830.9	716.1	646.2	586.3	870.8	1140.2	2148.2	3617.8	2502.5
77.5°	761.0	741.0	656.2	568.9	528.9	436.6	528.9	718.6	993.0	1524.5	1302.4
80°	441.6	454.1	489.0	444.1	389.2	311.9	344.3	414.2	596.3	825.9	738.5
82.5°	222.1	237.0	316.9	257.0	232.0	182.1	204.6	244.5	311.9	456.6	289.4
85°	17.5	17.5	57.4	64.9	79.8	64.9	82.3	99.8	142.2	182.1	97.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.5	12.5	22.5	42.4	27.4
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°	8700.2	8700.2	8700.2	8700.2	8700.2	8700.2	8700.2	8700.2	8700.2	8700.2	8700.2
2.5°	8715.2	8588.0	8435.8	8311.0	8118.9	8016.6	7886.8	7727.2	7662.3	7632.3	7614.9
5°	8732.7	8508.1	8183.8	7884.3	7552.5	7290.5	6998.6	6694.2	6519.6	6477.1	6447.2
7.5°	8797.5	8483.2	7966.7	7472.7	6856.4	6285.0	5728.6	5177.2	4895.3	4788.0	4778.0
10°	8887.4	8473.2	7747.1	6926.3	5885.8	4982.6	4331.4	3899.8	3717.6	3657.7	3637.8
12.5°	8999.6	8465.7	7457.7	6167.8	4765.5	3912.2	3540.5	3470.6	3495.6	3490.6	3490.6
15°	9141.9	8475.7	7108.4	5309.5	3854.8	3395.8	3403.2	3485.6	3562.9	3575.4	3575.4
17.5°	9296.5	8465.7	6601.9	4448.7	3308.4	3273.5	3388.3	3503.0	3572.9	3582.9	3582.9
20°	9463.7	8418.3	5963.2	3637.8	3068.9	3196.2	3320.9	3410.7	3453.1	3463.1	3463.1
22.5°	9563.5	8283.6	5269.5	3078.9	2916.7	3073.9	3156.2	3248.6	3253.5	3173.7	3171.2
25°	9548.5	8031.6	4478.6	2719.6	2754.5	2891.8	2996.6	2931.7	2851.8	2806.9	2799.4
27.5°	9453.7	7652.3	3672.7	2447.6	2562.4	2717.1	2684.7	2629.8	2609.8	2559.9	2554.9
30°	9334.0	7185.7	2949.1	2235.6	2362.8	2505.0	2455.1	2450.1	2430.2	2375.3	2375.3
32.5°	9219.2	6704.2	2402.7	2078.4	2235.6	2245.5	2315.4	2320.4	2310.4	2215.6	2205.6
35°	9186.8	6222.6	2033.5	1953.6	2110.8	2105.8	2205.6	2203.1	2031.0	1898.7	1896.2
37.5°	9284.1	5733.6	1813.9	1851.3	1938.7	2003.5	2083.4	1938.7	1881.3	1801.4	1796.4
40°	9491.2	5282.0	1701.6	1791.4	1828.9	1923.7	1798.9	1808.9	1793.9	1734.1	1726.6
42.5°	9765.6	4897.8	1639.2	1771.5	1766.5	1791.4	1654.2	1694.1	1716.6	1671.7	1664.2
45°	10030.1	4563.4	1606.8	1696.6	1721.6	1576.9	1549.4	1586.8	1621.8	1604.3	1596.8
47.5°	10224.7	4274.0	1589.3	1594.3	1664.2	1504.5	1459.6	1477.1	1519.5	1527.0	1524.5
50°	10284.6	4027.0	1569.4	1509.5	1494.5	1432.2	1397.2	1392.2	1442.1	1477.1	1482.1
52.5°	10169.8	3807.4	1517.0	1434.7	1362.3	1372.3	1359.8	1334.9	1384.8	1432.2	1437.1
55°	10000.1	3682.7	1434.7	1362.3	1277.5	1317.4	1322.4	1299.9	1332.4	1364.8	1364.8
57.5°	10012.6	3755.0	1354.8	1294.9	1202.6	1255.0	1282.5	1272.5	1272.5	1297.4	1299.9
60°	10095.0	3859.8	1302.4	1210.1	1127.8	1182.7	1245.0	1235.0	1212.6	1245.0	1245.0
62.5°	9857.9	3720.1	1267.5	1127.8	1047.9	1112.8	1187.6	1182.7	1157.7	1210.1	1215.1
65°	9159.3	3345.9	1227.6	1025.5	968.1	1042.9	1107.8	1125.3	1102.8	1172.7	1185.1
67.5°	7677.3	2814.4	1150.2	928.2	888.2	958.1	1020.5	1045.4	1028.0	1110.3	1120.3
70°	5723.6	2278.0	1028.0	820.9	790.9	853.3	910.7	920.7	923.2	1020.5	1030.5
72.5°	3650.3	1771.5	865.8	701.1	678.7	726.1	768.5	808.4	825.9	918.2	915.7
75°	2036.0	1317.4	696.1	593.8	553.9	591.3	641.2	688.6	738.5	873.3	888.2
77.5°	1172.7	925.7	551.4	476.6	429.1	469.1	511.5	578.9	728.6	845.8	830.9
80°	661.2	601.3	416.7	349.3	319.4	349.3	381.7	509.0	573.9	623.8	631.2
82.5°	309.4	336.8	284.4	214.6	214.6	234.5	264.5	394.2	434.1	354.3	309.4
85°	112.3	152.2	139.7	109.8	97.3	94.8	164.7	224.6	139.7	124.8	107.3
87.5°	29.9	42.4	39.9	27.4	15.0	12.5	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)