

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: P637883

Luminaire Tested: GWS-SA4D-760-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-760-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14675.8 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

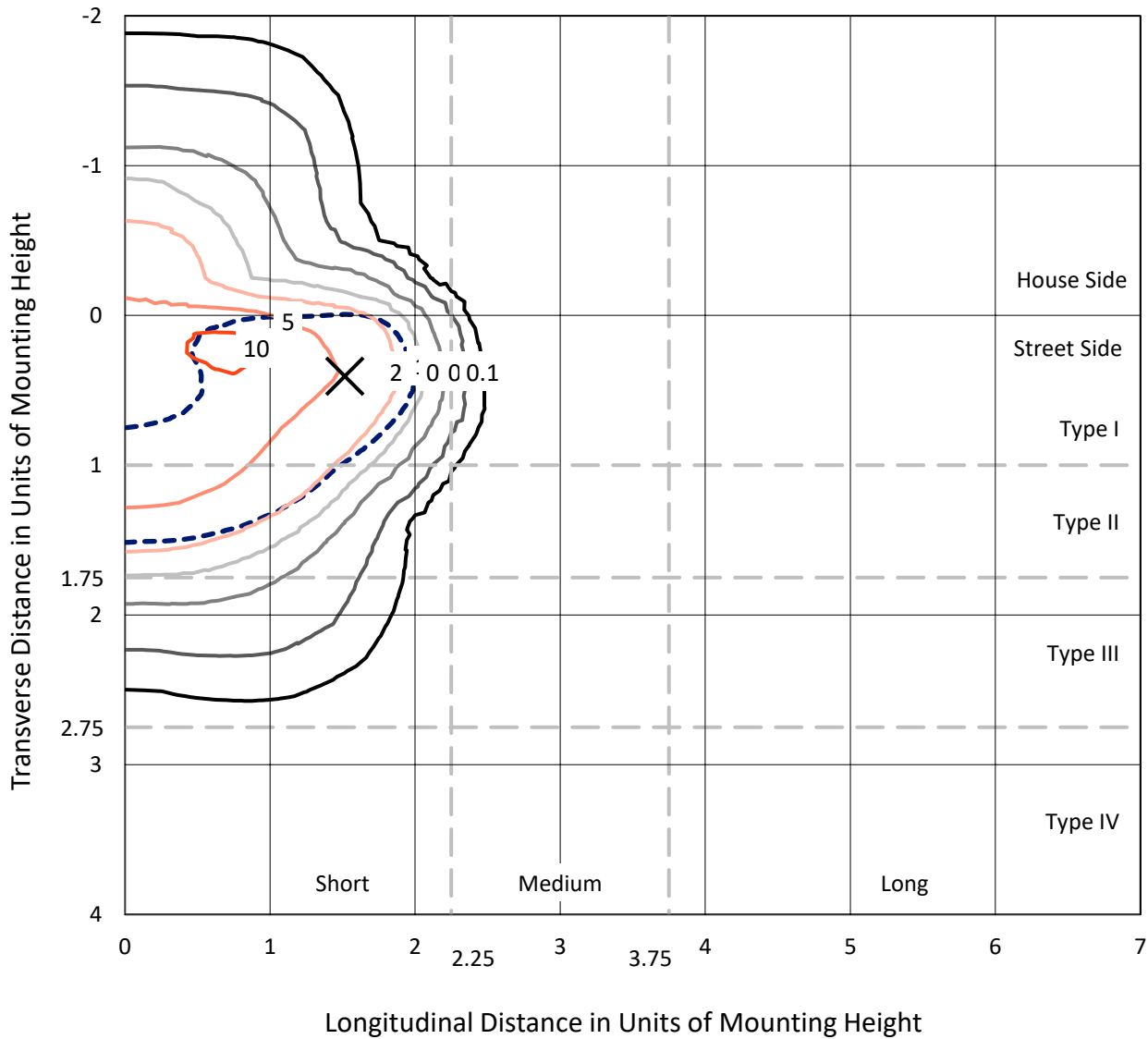
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

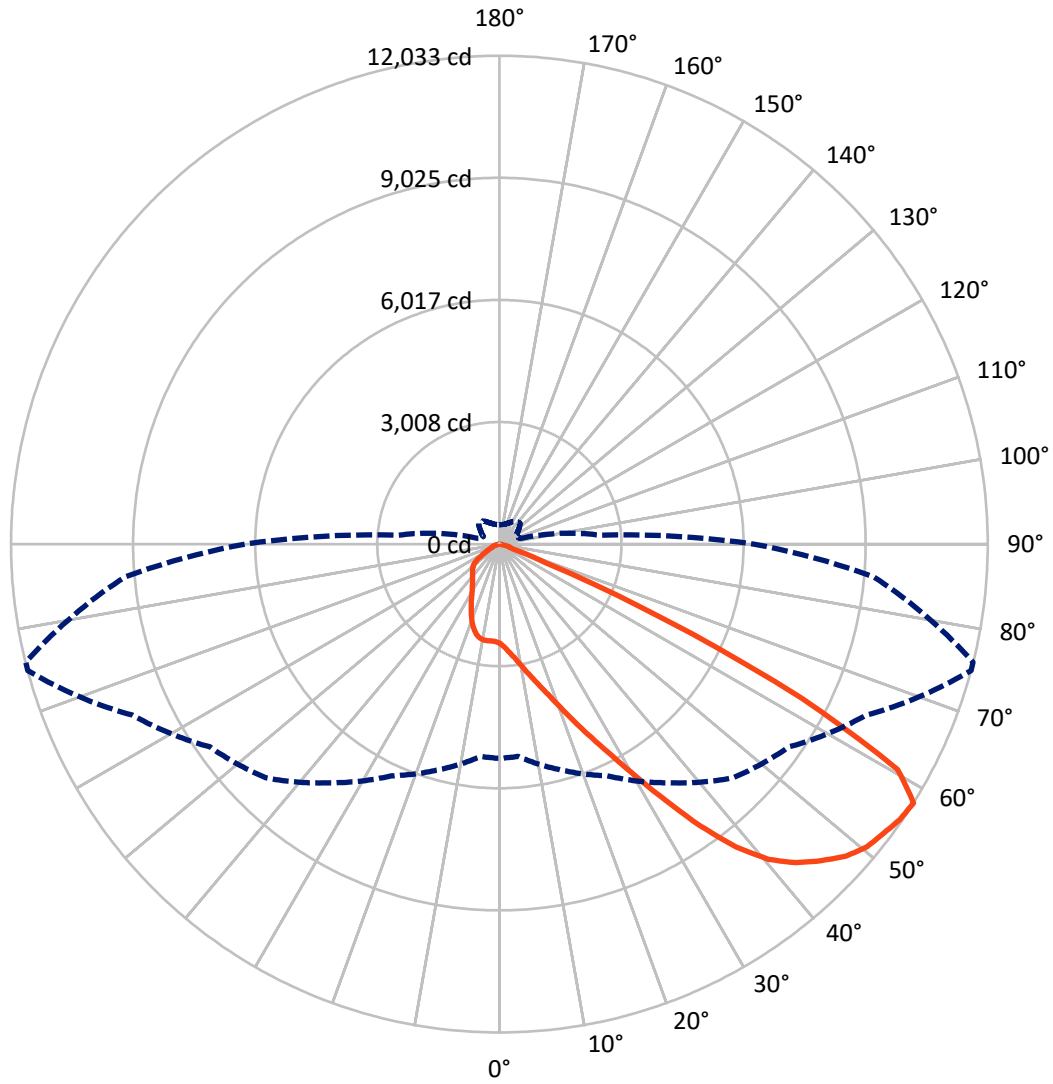
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - N/A

REPORT NUMBER: P637883
CATALOG NUMBER: GWS-SA4D-760-U-T2-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P637883

CATALOG NUMBER: GWS-SA4D-760-U-T2-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2397.3	0.0	2397.3
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	12278.5	0.0	12278.5
	% Fixture	83.7	0.0	83.7
Total	Lumens	14675.8	0.0	14675.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.1	1.7
10°-20°	809.1	5.5
20°-30°	1481.7	10.1
30°-40°	2458.2	16.8
40°-50°	3754.3	25.6
50°-60°	4218.6	28.7
60°-70°	1556.0	10.6
70°-80°	148.7	1.0
80°-90°	0.1	0.0
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°	14675.8	100.0
0°-180°	14675.8	100.0

Coefficient of Utilization



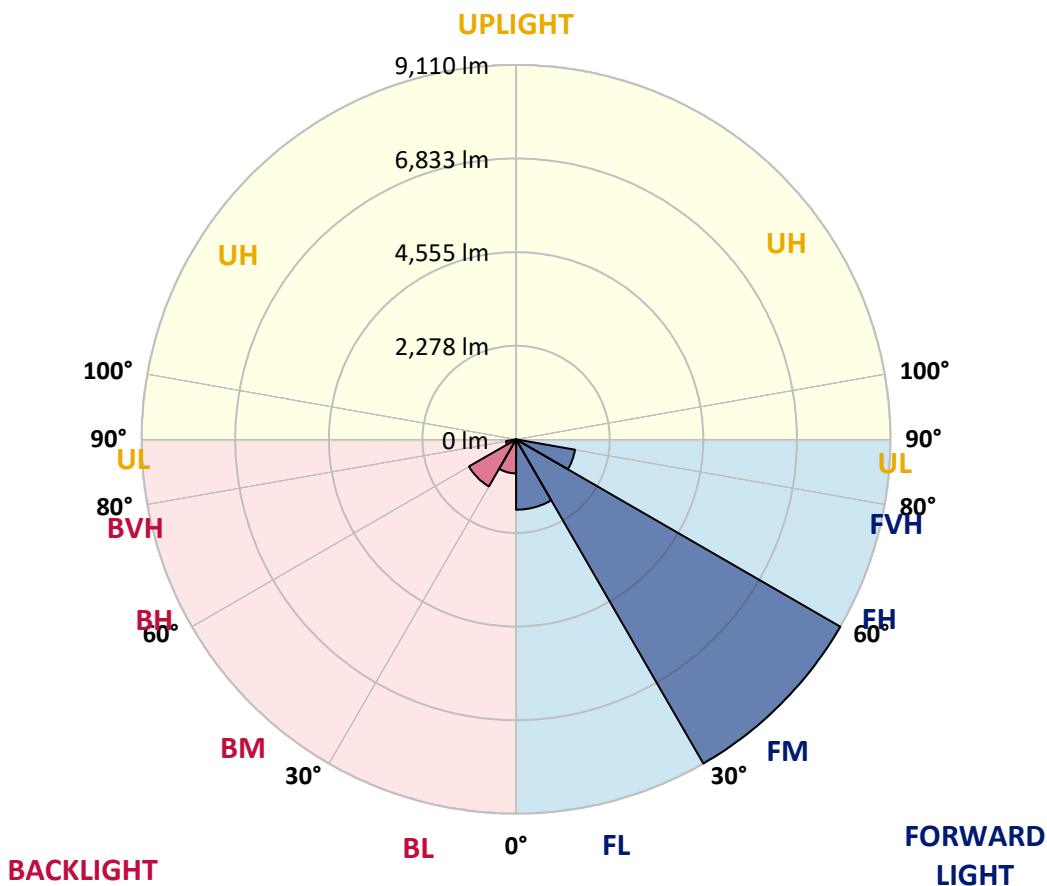
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1712.6	11.7			
FM (30°-60°)	9110.1	62.1			
FH (60°-80°)	1455.8	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	827.2	5.6	B2/1000		
BM (30°-60°)	1321.0	9.0	B2/2500		
BH (60°-80°)	248.9	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





REPORT NUMBER: P637883

CATALOG NUMBER: GWS-SA4D-760-U-T2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2447.7	2447.7	2447.7	2447.7	2447.7	2447.7	2447.7	2447.7	2447.7	2447.7	2447.7
2.5°	2734.6	2763.0	2754.1	2736.4	2725.8	2688.6	2665.6	2598.3	2550.4	2545.1	2500.9
5°	3080.0	3074.7	3067.6	3046.4	3028.7	2970.2	2901.1	2787.8	2686.8	2674.4	2580.6
7.5°	3269.5	3273.1	3276.6	3273.1	3260.7	3216.4	3140.2	3007.4	2853.3	2842.7	2693.9
10°	3347.5	3354.5	3372.3	3405.9	3436.0	3432.5	3388.2	3251.8	3062.3	3044.6	2844.5
12.5°	3384.7	3393.5	3421.8	3485.6	3567.1	3630.8	3637.9	3515.7	3306.7	3278.4	3023.3
15°	3436.0	3444.9	3480.3	3563.5	3682.2	3808.0	3889.4	3811.5	3577.7	3547.6	3219.9
17.5°	3459.0	3471.4	3522.8	3632.6	3786.7	3979.8	4164.0	4156.9	3898.3	3875.3	3448.4
20°	3503.3	3512.2	3558.2	3676.9	3862.9	4140.9	4450.9	4562.5	4289.7	4256.1	3724.7
22.5°	3643.2	3646.8	3668.0	3742.4	3916.0	4257.8	4743.1	5035.4	4752.0	4707.7	4034.7
25°	3871.7	3869.9	3878.8	3891.2	4018.7	4376.5	5024.7	5568.5	5281.5	5233.7	4385.3
27.5°	4162.2	4162.2	4183.4	4148.0	4199.4	4523.5	5302.8	6181.3	5897.9	5830.6	4769.7
30°	4504.0	4502.2	4551.8	4495.2	4511.1	4755.5	5602.1	6849.0	6641.8	6558.5	5212.5
32.5°	4968.1	4957.4	5014.1	4936.2	4883.0	5106.2	5967.0	7546.8	7532.7	7405.1	5768.6
35°	5554.3	5536.6	5554.3	5478.1	5382.5	5596.8	6445.2	8242.9	8521.0	8386.4	6431.0
37.5°	6137.0	6193.7	6213.2	6082.1	6004.2	6218.5	7020.8	8866.3	9465.0	9325.1	7120.0
40°	6824.2	6806.5	6873.8	6726.8	6677.2	6914.5	7584.0	9330.4	10212.4	10079.6	7732.8
42.5°	7330.8	7362.6	7445.9	7364.4	7325.4	7548.6	8056.9	9601.4	10731.4	10600.3	8170.3
45°	7938.3	7961.3	7993.2	7925.9	7885.1	8104.7	8398.8	9720.0	11126.3	10984.6	8464.3
47.5°	8595.4	8613.1	8613.1	8474.9	8343.9	8434.2	8627.2	9787.3	11489.4	11353.0	8682.1
50°	9066.5	9075.3	9153.3	9055.9	8770.7	8630.8	8731.7	9852.9	11730.3	11602.8	8753.0
52.5°	8648.5	8637.9	8894.7	9096.6	9172.7	8894.7	8912.4	9948.5	11847.2	11737.4	8809.7
55°	7282.9	7265.2	7626.5	8117.1	8788.4	9144.4	9130.2	10005.2	11976.5	11909.2	9015.1
57.5°	5279.8	5249.7	5752.7	6298.2	7178.4	8143.7	8710.5	9973.3	12033.1	12027.8	9254.2
60°	3173.9	3149.1	3623.8	4197.6	4877.7	5848.3	6788.8	8933.6	11275.1	11285.7	8632.5
62.5°	1953.6	1976.6	2405.2	2697.5	2950.7	3243.0	3786.7	6009.5	8352.7	8421.8	6066.2
65°	1314.2	1331.9	1728.6	2097.0	2097.0	1714.5	1471.8	2872.8	4456.2	4339.3	2869.3
67.5°	882.0	901.5	1215.0	1645.4	1707.4	1195.5	596.9	857.2	1241.6	1204.4	710.2
70°	518.9	540.2	809.4	1128.2	1243.3	832.4	398.5	363.1	352.5	341.8	276.3
72.5°	232.0	240.9	412.7	573.9	524.3	350.7	281.6	290.5	274.5	269.2	224.9
75°	70.8	74.4	106.3	124.0	125.8	125.8	170.0	228.5	216.1	217.9	173.6
77.5°	17.7	17.7	28.3	26.6	14.2	12.4	31.9	51.4	53.1	47.8	35.4
80°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2447.7	2447.7	2447.7	2447.7	2447.7	2447.7	2447.7	2447.7	2447.7	2447.7	2447.7
2.5°	2481.4	2435.3	2405.2	2362.7	2332.6	2300.7	2272.4	2249.4	2237.0	2233.4	2235.2
5°	2538.0	2465.4	2394.6	2313.1	2256.4	2203.3	2160.8	2127.1	2111.2	2105.9	2105.9
7.5°	2624.8	2523.9	2398.1	2270.6	2175.0	2091.7	2042.1	2004.9	1990.8	1987.2	1976.6
10°	2738.2	2600.0	2392.8	2194.4	2059.8	1973.1	1937.6	1927.0	1932.3	1934.1	1932.3
12.5°	2874.6	2679.7	2359.2	2082.9	1937.6	1884.5	1888.0	1916.4	1948.3	1964.2	1967.7
15°	3019.8	2752.4	2283.0	1950.0	1833.1	1831.4	1882.7	1948.3	2010.2	2036.8	2043.9
17.5°	3182.7	2810.8	2166.1	1808.3	1742.8	1794.2	1886.3	1987.2	2070.5	2114.7	2123.6
20°	3361.6	2858.6	2017.3	1675.5	1663.1	1755.2	1882.7	2006.7	2109.4	2159.0	2167.9
22.5°	3547.6	2892.3	1845.5	1553.3	1590.5	1710.9	1849.1	1969.5	2066.9	2123.6	2130.7
25°	3760.1	2895.8	1670.2	1450.6	1523.2	1650.7	1767.6	1866.8	1948.3	1997.8	2003.2
27.5°	3946.1	2853.3	1514.3	1367.3	1461.2	1576.3	1654.2	1709.2	1765.8	1794.2	1795.9
30°	4160.4	2778.9	1367.3	1300.0	1397.4	1484.2	1523.2	1535.6	1540.9	1546.2	1539.1
32.5°	4415.5	2688.6	1257.5	1234.5	1324.8	1383.3	1393.9	1369.1	1339.0	1296.5	1285.8
35°	4729.0	2607.1	1167.2	1170.7	1245.1	1280.5	1271.7	1218.5	1160.1	1108.7	1099.9
37.5°	5069.0	2538.0	1098.1	1108.7	1158.3	1183.1	1156.6	1098.1	1071.5	1027.3	1029.0
40°	5370.1	2481.4	1036.1	1046.7	1069.8	1092.8	1050.3	1011.3	1060.9	1057.4	1060.9
42.5°	5584.4	2433.5	983.0	977.7	993.6	1009.6	977.7	958.2	1041.4	1018.4	1030.8
45°	5710.2	2389.3	938.7	906.8	931.6	960.0	938.7	913.9	942.2	836.0	827.1
47.5°	5795.2	2364.5	899.7	837.8	882.0	931.6	887.3	827.1	786.4	694.3	687.2
50°	5804.0	2352.1	853.7	766.9	823.6	876.7	825.4	742.1	683.7	642.9	637.6
52.5°	5850.1	2376.9	789.9	676.6	738.6	823.6	788.2	704.9	625.2	589.8	582.7
55°	6055.5	2481.4	683.7	552.6	642.9	782.8	758.0	628.8	552.6	531.3	526.0
57.5°	6268.1	2502.6	538.4	437.5	559.7	724.4	692.5	579.2	504.8	480.0	474.7
60°	5731.4	2061.6	403.8	361.3	494.1	669.5	641.2	549.1	462.3	432.2	426.8
62.5°	3765.4	1114.0	320.6	306.4	416.2	566.8	584.5	495.9	412.7	380.8	379.0
65°	1735.7	517.2	246.2	242.6	325.9	451.6	503.0	433.9	348.9	320.6	320.6
67.5°	472.9	256.8	193.1	178.9	221.4	302.9	366.6	324.1	248.0	214.3	212.5
70°	235.6	207.2	173.6	154.1	159.4	187.7	216.1	180.7	125.8	102.7	101.0
72.5°	193.1	170.0	147.0	131.1	120.4	115.1	111.6	90.3	58.4	44.3	42.5
75°	143.5	122.2	104.5	85.0	72.6	67.3	60.2	44.3	24.8	14.2	12.4
77.5°	31.9	30.1	28.3	21.3	19.5	15.9	12.4	8.9	3.5	0.0	0.0
80°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)