

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: P633428

Luminaire Tested: GWS-SA2E-760-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633428
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-SA2E-760-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8744.2 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

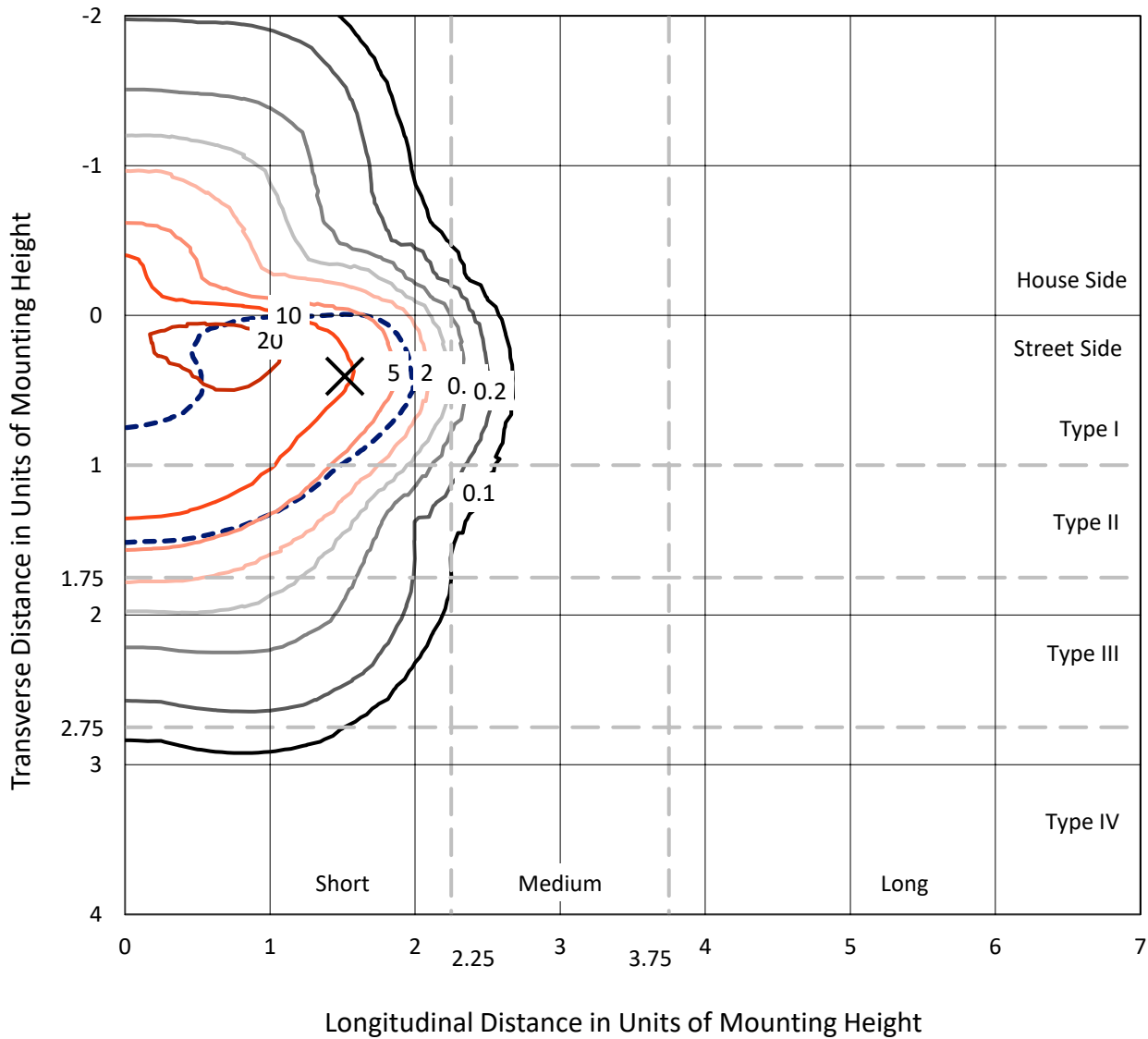
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: GWS-SA2E-760-U-T2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

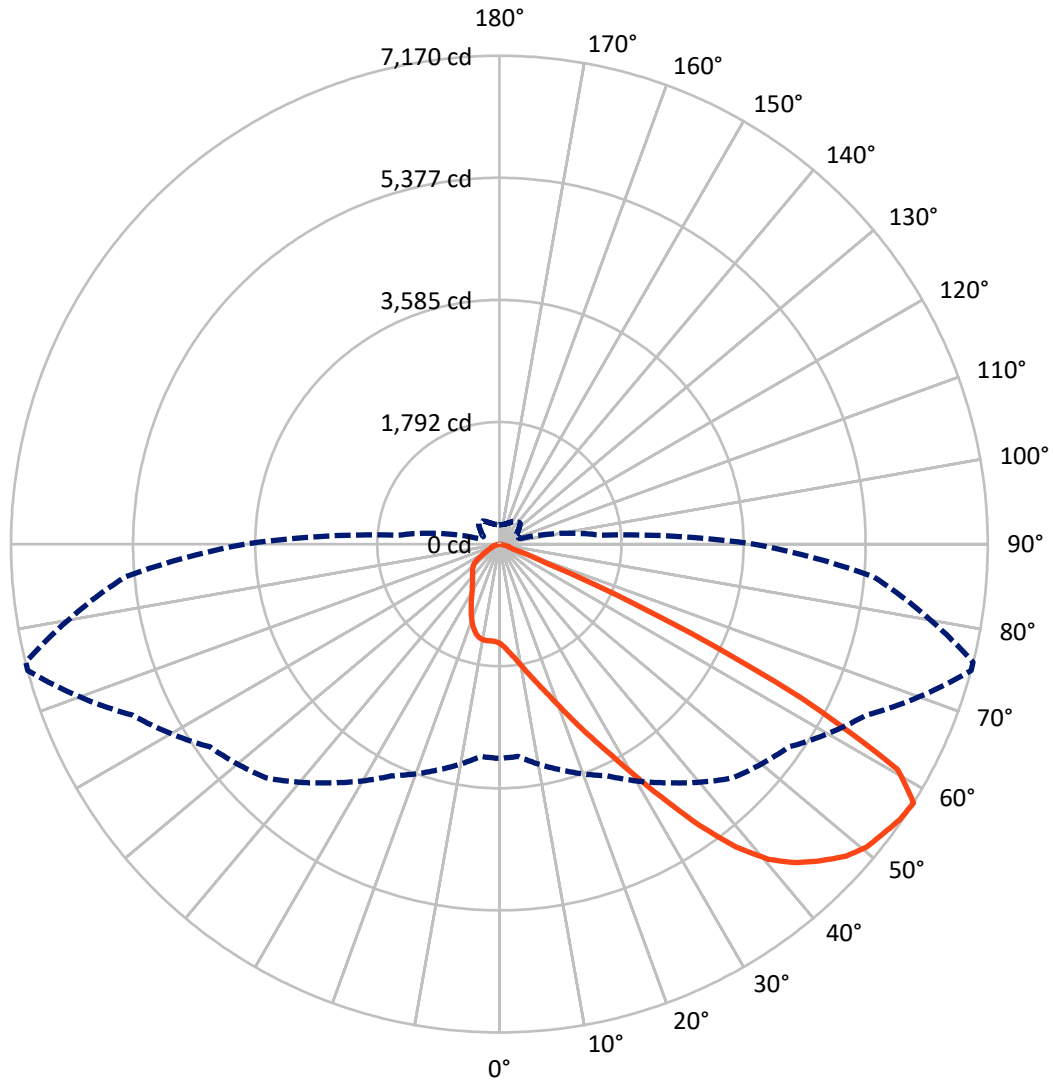
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.3 fc
 Type II - Short - N/A

REPORT NUMBER: P633428
CATALOG NUMBER: GWS-SA2E-760-U-T2-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P633428

CATALOG NUMBER: GWS-SA2E-760-U-T2-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1428.3	0.0	1428.3
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	7315.9	0.0	7315.9
	% Fixture	83.7	0.0	83.7
Total	Lumens	8744.2	0.0	8744.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.4	1.7
10°-20°	482.1	5.5
20°-30°	882.8	10.1
30°-40°	1464.7	16.8
40°-50°	2236.9	25.6
50°-60°	2513.5	28.7
60°-70°	927.1	10.6
70°-80°	88.6	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°	8744.2	100.0
0°-180°	8744.2	100.0

Coefficient of Utilization



REPORT NUMBER: P633428

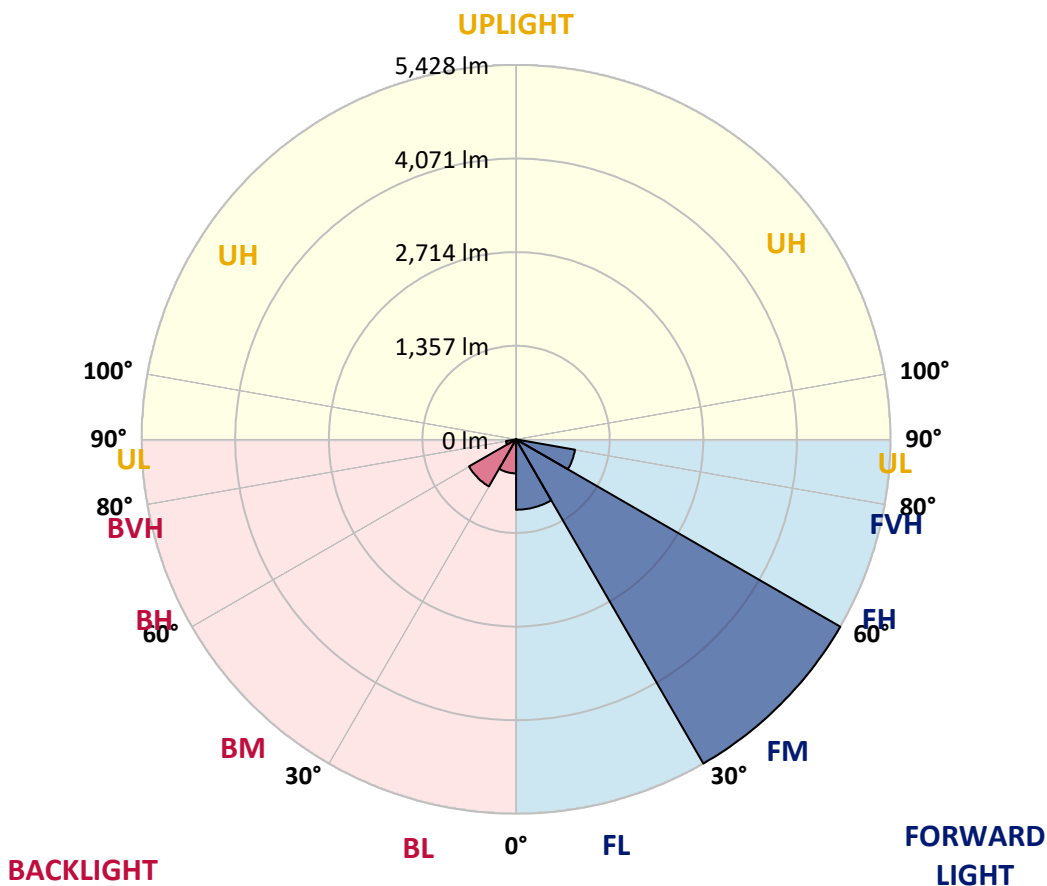
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1020.4	11.7			
FM (30°-60°)	5428.0	62.1			
FH (60°-80°)	867.4	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	492.9	5.6	B1/500		
BM (30°-60°)	787.1	9.0	B1/1000		
BH (60°-80°)	148.3	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P633428

CATALOG NUMBER: GWS-SA2E-760-U-T2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1458.4	1458.4	1458.4	1458.4	1458.4	1458.4	1458.4	1458.4	1458.4	1458.4	1458.4
2.5°	1629.4	1646.3	1641.0	1630.4	1624.1	1601.9	1588.2	1548.1	1519.6	1516.5	1490.1
5°	1835.1	1832.0	1827.8	1815.1	1804.5	1769.7	1728.6	1661.0	1600.9	1593.5	1537.6
7.5°	1948.1	1950.2	1952.3	1950.2	1942.8	1916.4	1871.0	1791.9	1700.1	1693.7	1605.1
10°	1994.5	1998.7	2009.3	2029.3	2047.3	2045.2	2018.8	1937.5	1824.6	1814.0	1694.8
12.5°	2016.7	2021.9	2038.8	2076.8	2125.4	2163.3	2167.6	2094.8	1970.2	1953.3	1801.4
15°	2047.3	2052.5	2073.6	2123.2	2193.9	2268.9	2317.4	2271.0	2131.7	2113.7	1918.5
17.5°	2061.0	2068.4	2099.0	2164.4	2256.2	2371.2	2481.0	2476.8	2322.7	2309.0	2054.6
20°	2087.4	2092.6	2120.1	2190.8	2301.6	2467.3	2651.9	2718.4	2555.9	2535.9	2219.3
22.5°	2170.7	2172.8	2185.5	2229.8	2333.2	2536.9	2826.1	3000.2	2831.3	2805.0	2404.0
25°	2306.9	2305.8	2311.1	2318.5	2394.5	2607.6	2993.9	3317.8	3146.9	3118.4	2612.9
27.5°	2479.9	2479.9	2492.6	2471.5	2502.1	2695.2	3159.5	3683.0	3514.1	3474.0	2841.9
30°	2683.6	2682.5	2712.1	2678.3	2687.8	2833.5	3337.9	4080.8	3957.3	3907.7	3105.7
32.5°	2960.1	2953.8	2987.5	2941.1	2909.4	3042.4	3555.3	4496.6	4488.1	4412.2	3437.1
35°	3309.4	3298.8	3309.4	3264.0	3207.0	3334.7	3840.2	4911.3	5077.0	4996.8	3831.8
37.5°	3656.6	3690.3	3702.0	3623.9	3577.4	3705.1	4183.2	5282.8	5639.5	5556.1	4242.3
40°	4066.0	4055.5	4095.6	4008.0	3978.4	4119.9	4518.8	5559.3	6084.8	6005.7	4607.4
42.5°	4367.8	4386.8	4436.4	4387.9	4364.7	4497.6	4800.5	5720.7	6394.0	6315.9	4868.1
45°	4729.8	4743.5	4762.5	4722.4	4698.2	4829.0	5004.2	5791.4	6629.3	6544.9	5043.2
47.5°	5121.3	5131.9	5131.9	5049.6	4971.5	5025.3	5140.3	5831.5	6845.7	6764.4	5173.0
50°	5402.0	5407.3	5453.7	5395.7	5225.8	5142.4	5202.6	5870.6	6989.2	6913.2	5215.2
52.5°	5153.0	5146.6	5299.7	5420.0	5465.3	5299.7	5310.2	5927.6	7058.8	6993.4	5249.0
55°	4339.4	4328.8	4544.1	4836.4	5236.3	5448.5	5440.0	5961.3	7135.9	7095.8	5371.4
57.5°	3145.8	3127.9	3427.6	3752.6	4277.1	4852.2	5189.9	5942.3	7169.6	7166.5	5513.9
60°	1891.1	1876.3	2159.1	2501.0	2906.3	3484.6	4044.9	5322.9	6718.0	6724.3	5143.5
62.5°	1164.0	1177.7	1433.1	1607.2	1758.1	1932.2	2256.2	3580.6	4976.7	5017.9	3614.4
65°	783.0	793.6	1030.0	1249.5	1249.5	1021.5	876.9	1711.7	2655.1	2585.5	1709.6
67.5°	525.5	537.1	723.9	980.4	1017.3	712.3	355.6	510.8	739.8	717.6	423.2
70°	309.2	321.9	482.3	672.2	740.8	496.0	237.4	216.3	210.0	203.7	164.6
72.5°	138.2	143.5	245.9	341.9	312.4	208.9	167.8	173.1	163.6	160.4	134.0
75°	42.2	44.3	63.3	73.9	74.9	74.9	101.3	136.1	128.7	129.8	103.4
77.5°	10.6	10.6	16.9	15.8	8.4	7.4	19.0	30.6	31.7	28.5	21.1
80°	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
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°	1458.4	1458.4	1458.4	1458.4	1458.4	1458.4	1458.4	1458.4	1458.4	1458.4	1458.4
2.5°	1478.5	1451.0	1433.1	1407.8	1389.8	1370.8	1353.9	1340.2	1332.8	1330.7	1331.8
5°	1512.2	1469.0	1426.8	1378.2	1344.4	1312.8	1287.5	1267.4	1257.9	1254.7	1254.7
7.5°	1563.9	1503.8	1428.9	1352.9	1295.9	1246.3	1216.7	1194.6	1186.1	1184.0	1177.7
10°	1631.5	1549.2	1425.7	1307.5	1227.3	1175.6	1154.5	1148.2	1151.3	1152.4	1151.3
12.5°	1712.7	1596.7	1405.6	1241.0	1154.5	1122.8	1124.9	1141.8	1160.8	1170.3	1172.4
15°	1799.3	1639.9	1360.3	1161.9	1092.2	1091.2	1121.8	1160.8	1197.8	1213.6	1217.8
17.5°	1896.4	1674.7	1290.6	1077.5	1038.4	1069.0	1123.9	1184.0	1233.6	1260.0	1265.3
20°	2002.9	1703.2	1202.0	998.3	990.9	1045.8	1121.8	1195.6	1256.9	1286.4	1291.7
22.5°	2113.7	1723.3	1099.6	925.5	947.7	1019.4	1101.7	1173.5	1231.5	1265.3	1269.5
25°	2240.4	1725.4	995.1	864.3	907.5	983.5	1053.2	1112.3	1160.8	1190.4	1193.5
27.5°	2351.2	1700.1	902.3	814.7	870.6	939.2	985.6	1018.4	1052.1	1069.0	1070.1
30°	2478.9	1655.8	814.7	774.6	832.6	884.3	907.5	914.9	918.1	921.3	917.0
32.5°	2630.8	1601.9	749.3	735.5	789.4	824.2	830.5	815.7	797.8	772.5	766.1
35°	2817.6	1553.4	695.4	697.5	741.9	763.0	757.7	726.0	691.2	660.6	655.3
37.5°	3020.2	1512.2	654.3	660.6	690.2	704.9	689.1	654.3	638.5	612.1	613.1
40°	3199.6	1478.5	617.3	623.7	637.4	651.1	625.8	602.6	632.1	630.0	632.1
42.5°	3327.3	1450.0	585.7	582.5	592.0	601.5	582.5	570.9	620.5	606.8	614.2
45°	3402.3	1423.6	559.3	540.3	555.1	572.0	559.3	544.5	561.4	498.1	492.8
47.5°	3452.9	1408.8	536.1	499.2	525.5	555.1	528.7	492.8	468.5	413.7	409.5
50°	3458.2	1401.4	508.6	456.9	490.7	522.4	491.8	442.2	407.3	383.1	379.9
52.5°	3485.6	1416.2	470.7	403.1	440.1	490.7	469.6	420.0	372.5	351.4	347.2
55°	3608.0	1478.5	407.3	329.3	383.1	466.4	451.7	374.6	329.3	316.6	313.4
57.5°	3734.7	1491.1	320.8	260.7	333.5	431.6	412.6	345.1	300.8	286.0	282.8
60°	3414.9	1228.4	240.6	215.3	294.4	398.9	382.0	327.1	275.4	257.5	254.3
62.5°	2243.5	663.8	191.0	182.6	248.0	337.7	348.2	295.5	245.9	226.9	225.8
65°	1034.2	308.1	146.7	144.6	194.2	269.1	299.7	258.5	207.9	191.0	191.0
67.5°	281.8	153.0	115.0	106.6	131.9	180.5	218.4	193.1	147.7	127.7	126.6
70°	140.4	123.5	103.4	91.8	95.0	111.9	128.7	107.6	74.9	61.2	60.2
72.5°	115.0	101.3	87.6	78.1	71.8	68.6	66.5	53.8	34.8	26.4	25.3
75°	85.5	72.8	62.3	50.7	43.3	40.1	35.9	26.4	14.8	8.4	7.4
77.5°	19.0	17.9	16.9	12.7	11.6	9.5	7.4	5.3	2.1	0.0	0.0
80°	1.1	1.1	1.1	1.1	1.1	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)