

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: P643937

Luminaire Tested: GWS-SA6F-830-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-830-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26503.3 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

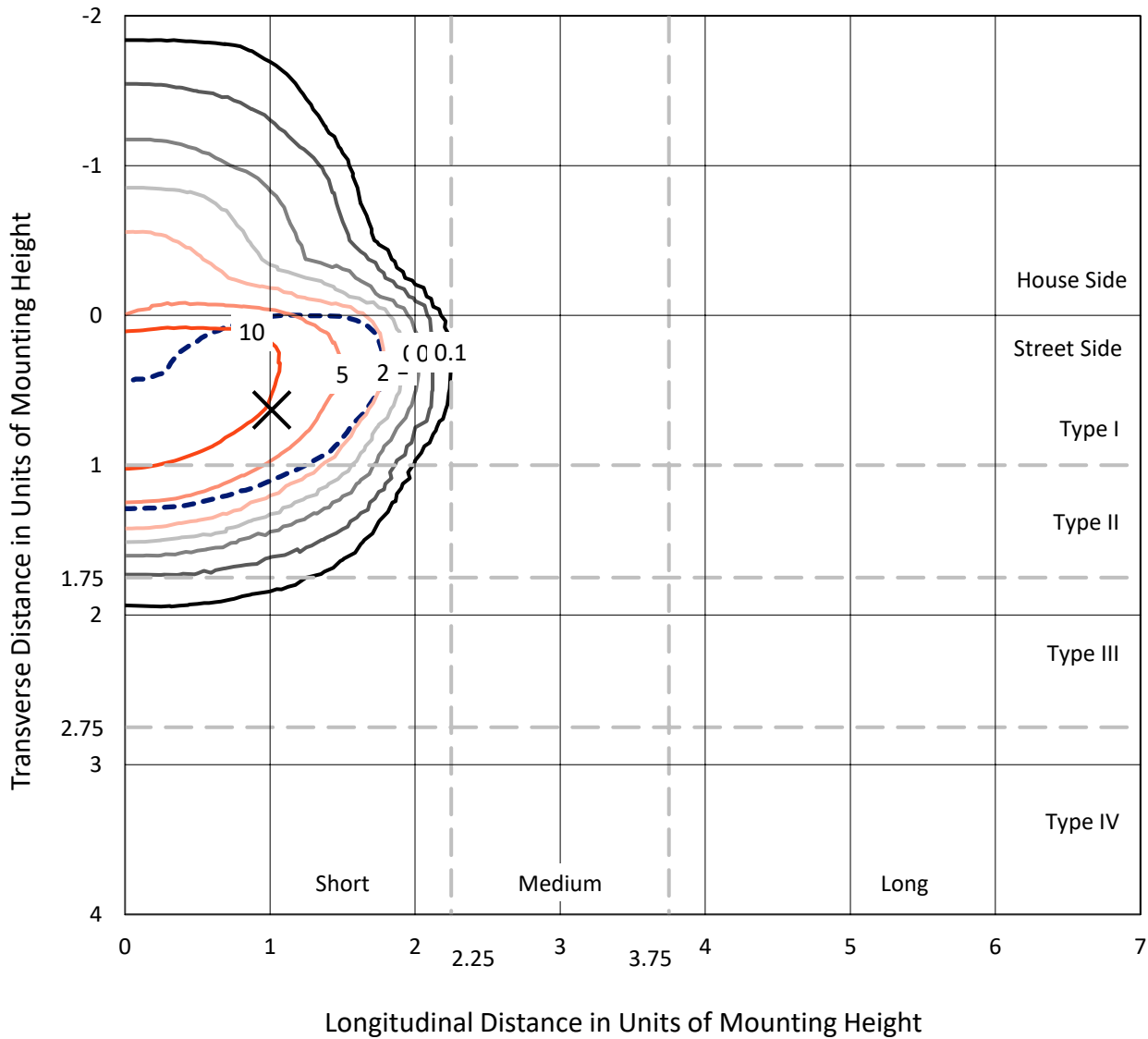
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643937
 CATALOG NUMBER: GWS-SA6F-830-U-T2R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

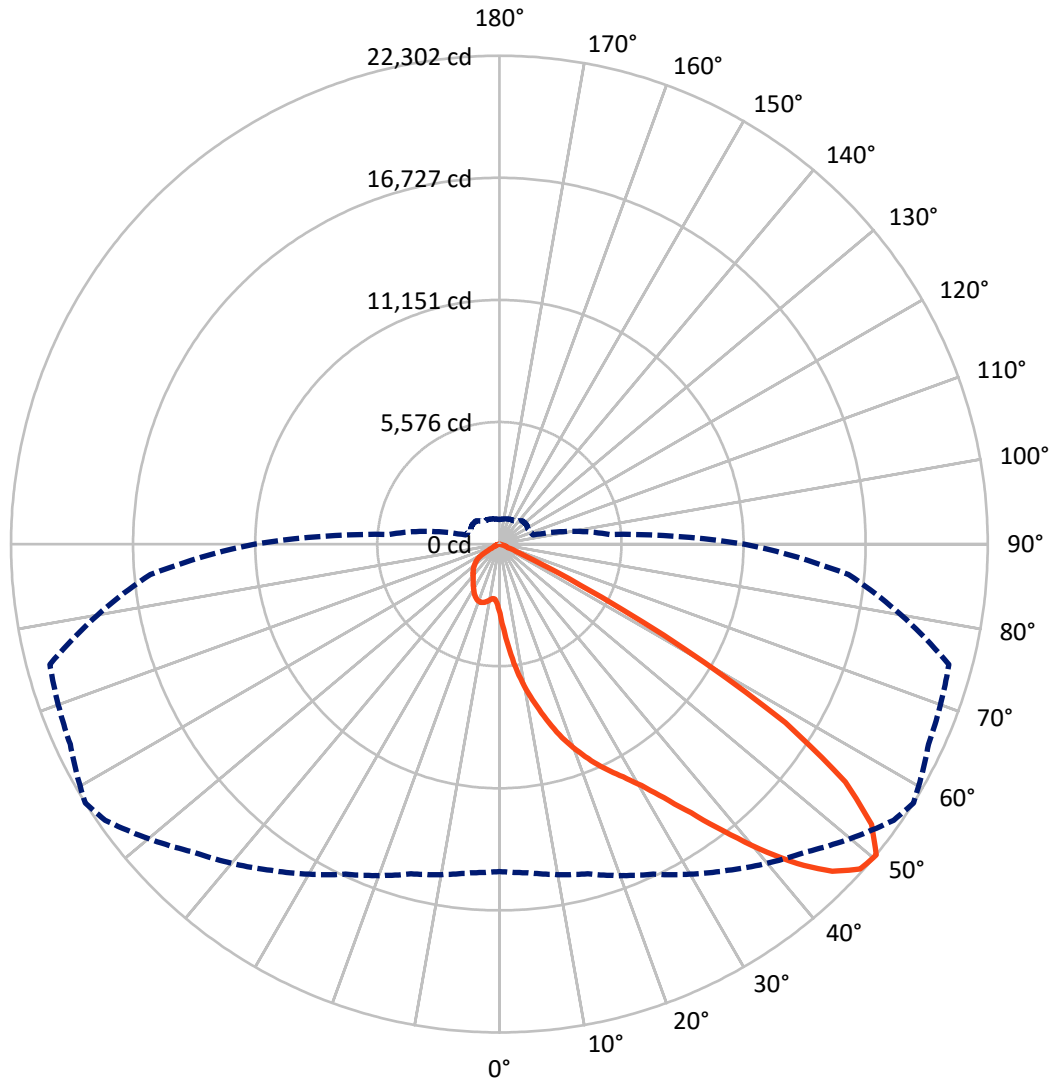
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type II - Short - N/A

REPORT NUMBER: P643937
CATALOG NUMBER: GWS-SA6F-830-U-T2R-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P643937
 CATALOG NUMBER: GWS-SA6F-830-U-T2R-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3712.1	0.0	3712.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	22791.1	0.0	22791.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	26503.3	0.0	26503.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.2	1.5
10°-20°	1552.6	5.9
20°-30°	3141.7	11.9
30°-40°	5558.0	21.0
40°-50°	8102.4	30.6
50°-60°	6494.3	24.5
60°-70°	1170.0	4.4
70°-80°	92.2	0.3
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°	26503.3	100.0
0°-180°	26503.3	100.0

Coefficient of Utilization



REPORT NUMBER: P643937

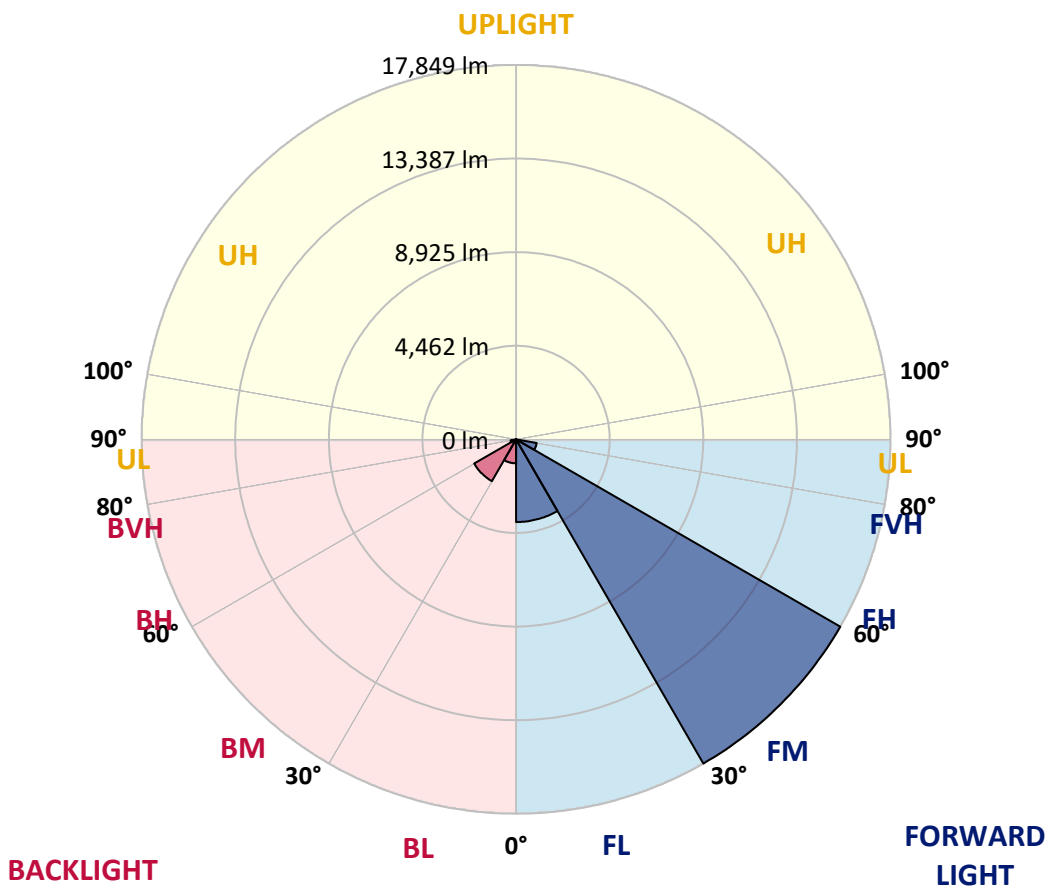
CATALOG NUMBER: GWS-SA6F-830-U-T2R-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3943.6	14.9			
FM (30°-60°)	17849.2	67.3			
FH (60°-80°)	998.4	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1142.8	4.3	B3/2500		
BM (30°-60°)	2305.4	8.7	B2/2500		
BH (60°-80°)	263.8	1.0	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: B3-U0-G1

Type II Short





REPORT NUMBER: P643937

CATALOG NUMBER: GWS-SA6F-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8
2.5°	4684.9	4611.2	4568.7	4534.7	4384.5	4146.4	3990.5	3908.3	3772.3	3542.7	3344.3
5°	6113.3	6059.5	5960.3	5892.3	5699.5	5362.3	5013.7	4874.8	4565.9	4047.2	3582.4
7.5°	7059.9	7020.3	6983.4	6892.7	6711.3	6405.2	6019.8	5875.2	5399.1	4662.2	3899.8
10°	7788.3	7757.1	7714.6	7711.8	7570.1	7295.2	6918.2	6768.0	6252.2	5331.1	4273.9
12.5°	8428.8	8403.3	8394.8	8474.2	8383.5	8179.4	7771.3	7584.3	7037.3	6014.1	4687.7
15°	8868.1	8862.5	8899.3	9055.2	9106.2	9012.7	8669.7	8468.5	7839.3	6700.0	5144.0
17.5°	9069.4	9086.4	9157.2	9426.5	9653.2	9732.6	9469.0	9298.9	8635.7	7394.4	5631.5
20°	9412.3	9406.6	9449.1	9704.2	9982.0	10265.4	10186.0	10041.5	9440.6	8128.4	6172.8
22.5°	10378.7	10296.6	10205.9	10245.5	10344.7	10676.3	10823.7	10750.0	10271.1	8882.3	6731.2
25°	11863.9	11778.8	11486.9	11203.5	11016.4	11166.7	11367.9	11404.7	11095.8	9656.0	7315.0
27.5°	13439.7	13363.1	13034.4	12609.2	12073.6	11812.8	11963.1	12036.7	11906.4	10577.1	7935.7
30°	14916.3	14814.2	14454.3	13927.1	13306.5	12906.8	12736.8	12787.8	12864.3	11668.3	8664.1
32.5°	16197.3	16120.8	15690.0	15134.5	14536.5	14119.9	13723.1	13808.1	13995.2	13003.2	9596.5
35°	17282.8	17243.1	16786.8	16234.2	15602.1	15389.6	15049.5	15066.5	15253.5	14615.8	10733.0
37.5°	18226.6	18158.6	17744.8	17231.8	16730.1	16696.1	16602.6	16611.1	16707.5	16494.9	12039.6
40°	18821.8	18759.4	18464.7	18147.2	17790.1	17795.8	18280.4	18317.3	18206.7	18339.9	13419.8
42.5°	19045.7	19000.3	18841.6	18844.4	18807.6	18974.8	19884.6	19952.6	19555.8	19788.2	14598.8
45°	18657.4	18637.5	18648.9	19057.0	19499.1	20014.9	21196.8	21315.8	20754.7	20749.0	15519.9
47.5°	17404.7	17365.0	17696.6	18391.0	19414.1	20417.4	21990.4	22174.6	21593.6	21298.8	16098.1
50°	14950.3	15063.6	15588.0	16630.9	18186.9	19864.7	21981.9	22302.1	21624.8	21250.6	16001.8
52.5°	10829.4	10806.7	11954.6	13388.6	15281.9	18096.2	20814.2	21281.8	20868.0	20777.3	15786.4
55°	5892.3	6099.1	6872.9	8771.8	11135.5	14749.0	18147.2	19167.5	19646.5	20604.5	16174.6
57.5°	2165.3	2256.0	2740.6	4084.0	5895.1	9171.4	13862.0	15400.9	16880.3	20122.6	16109.5
60°	872.9	889.9	1082.7	1502.1	2477.1	4667.9	8315.5	9681.5	11076.0	15403.7	12362.7
62.5°	634.9	657.5	734.1	878.6	1252.7	2040.6	3585.2	4169.1	4557.4	7629.6	6090.6
65°	513.0	530.0	592.3	657.5	827.6	1096.8	1156.3	1113.8	1108.2	1972.6	1397.2
67.5°	425.1	442.1	487.5	532.8	595.2	547.0	396.8	416.6	340.1	337.3	274.9
70°	311.8	331.6	376.9	425.1	357.1	147.4	229.6	340.1	257.9	215.4	209.7
72.5°	235.2	249.4	291.9	277.7	104.9	56.7	153.0	246.6	198.4	158.7	155.9
75°	175.7	184.2	147.4	45.3	11.3	14.2	56.7	102.0	110.5	90.7	90.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.7	8.5	11.3	14.2	17.0
80°	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P643937

CATALOG NUMBER: GWS-SA6F-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8
2.5°	3231.0	3111.9	2941.9	2800.2	2692.5	2587.6	2508.2	2428.9	2426.1	2386.4	2377.9
5°	3367.0	3151.6	2839.8	2615.9	2479.9	2397.7	2341.0	2312.7	2298.5	2284.3	2278.7
7.5°	3562.6	3253.6	2822.8	2584.8	2471.4	2417.6	2377.9	2360.9	2352.4	2341.0	2338.2
10°	3803.5	3401.0	2885.2	2644.3	2545.1	2494.1	2451.6	2426.1	2411.9	2392.0	2386.4
12.5°	4092.5	3582.4	2984.4	2743.5	2638.6	2570.6	2513.9	2477.1	2457.2	2431.7	2426.1
15°	4404.3	3778.0	3094.9	2834.2	2709.5	2621.6	2550.8	2494.1	2457.2	2426.1	2417.6
17.5°	4727.4	3976.3	3194.1	2896.5	2743.5	2638.6	2536.6	2460.1	2414.7	2375.0	2363.7
20°	5090.2	4180.4	3259.3	2907.9	2732.1	2593.3	2474.2	2377.9	2332.5	2278.7	2267.3
22.5°	5470.0	4370.3	3287.6	2882.4	2669.8	2508.2	2380.7	2281.5	2216.3	2159.6	2142.6
25°	5838.4	4540.3	3273.5	2811.5	2576.3	2389.2	2258.8	2156.8	2086.0	2029.3	2015.1
27.5°	6229.5	4682.1	3222.5	2706.6	2448.7	2258.8	2134.1	2046.3	1981.1	1918.7	1904.6
30°	6668.8	4812.4	3140.3	2579.1	2298.5	2125.6	2029.3	1969.8	1898.9	1833.7	1813.9
32.5°	7198.8	4928.6	3021.2	2426.1	2165.3	2009.4	1955.6	1910.2	1828.0	1760.0	1745.9
35°	7805.3	5025.0	2871.0	2267.3	2034.9	1935.7	1924.4	1864.9	1757.2	1677.8	1660.8
37.5°	8508.2	5118.5	2692.5	2111.5	1938.6	1901.7	1904.6	1802.5	1672.2	1575.8	1564.5
40°	9264.9	5212.0	2494.1	1975.4	1850.7	1881.9	1856.4	1711.8	1499.3	1405.8	1394.4
42.5°	10052.8	5314.1	2292.8	1847.9	1777.0	1805.4	1768.5	1530.5	1377.4	1329.2	1323.6
45°	10764.2	5435.9	2074.6	1720.3	1703.3	1694.8	1632.5	1385.9	1320.7	1286.7	1283.9
47.5°	11277.2	5416.1	1842.2	1598.5	1624.0	1595.6	1405.8	1317.9	1264.0	1218.7	1207.4
50°	11183.7	5070.3	1601.3	1462.4	1522.0	1496.4	1264.0	1238.5	1190.4	1142.2	1125.2
52.5°	10945.6	4599.9	1391.6	1317.9	1411.4	1351.9	1167.7	1142.2	1099.7	1037.3	1017.5
55°	11073.1	4157.7	1227.2	1201.7	1298.1	1119.5	1060.0	1020.3	975.0	906.9	898.4
57.5°	10662.2	3392.5	986.3	1003.3	1147.8	955.1	929.6	867.3	790.7	745.4	739.7
60°	7380.2	1822.4	617.9	637.7	830.4	802.1	833.2	776.6	683.0	640.5	632.0
62.5°	3389.7	731.2	337.3	323.1	436.5	544.2	714.2	708.5	592.3	524.3	518.7
65°	821.9	334.4	240.9	226.7	246.6	325.9	464.8	558.3	479.0	399.6	391.1
67.5°	266.4	272.1	221.1	206.9	218.2	243.7	277.7	308.9	306.1	280.6	274.9
70°	212.6	246.6	204.1	187.1	187.1	195.6	187.1	150.2	130.4	141.7	147.4
72.5°	158.7	187.1	161.5	144.5	138.9	136.0	116.2	85.0	59.5	53.8	51.0
75°	93.5	104.9	99.2	85.0	79.4	70.9	56.7	36.8	19.8	14.2	8.5
77.5°	17.0	19.8	22.7	17.0	14.2	11.3	8.5	2.8	0.0	0.0	0.0
80°	0.0	2.8	2.8	2.8	0.0	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)