

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: P636785

Luminaire Tested: GWS-SA4B-740-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-740-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10842.1 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

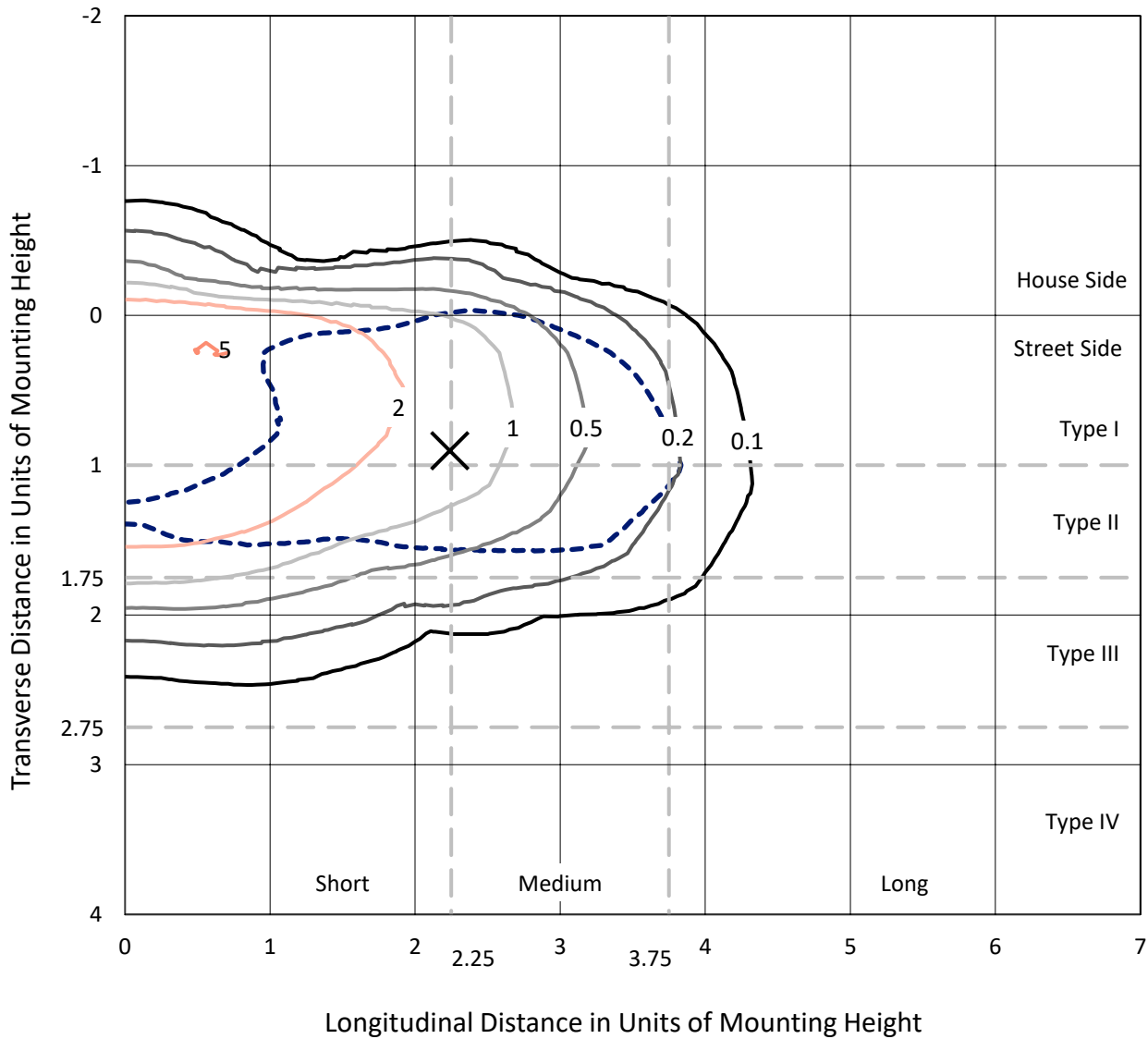
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636785
 CATALOG NUMBER: GWS-SA4B-740-U-T2-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

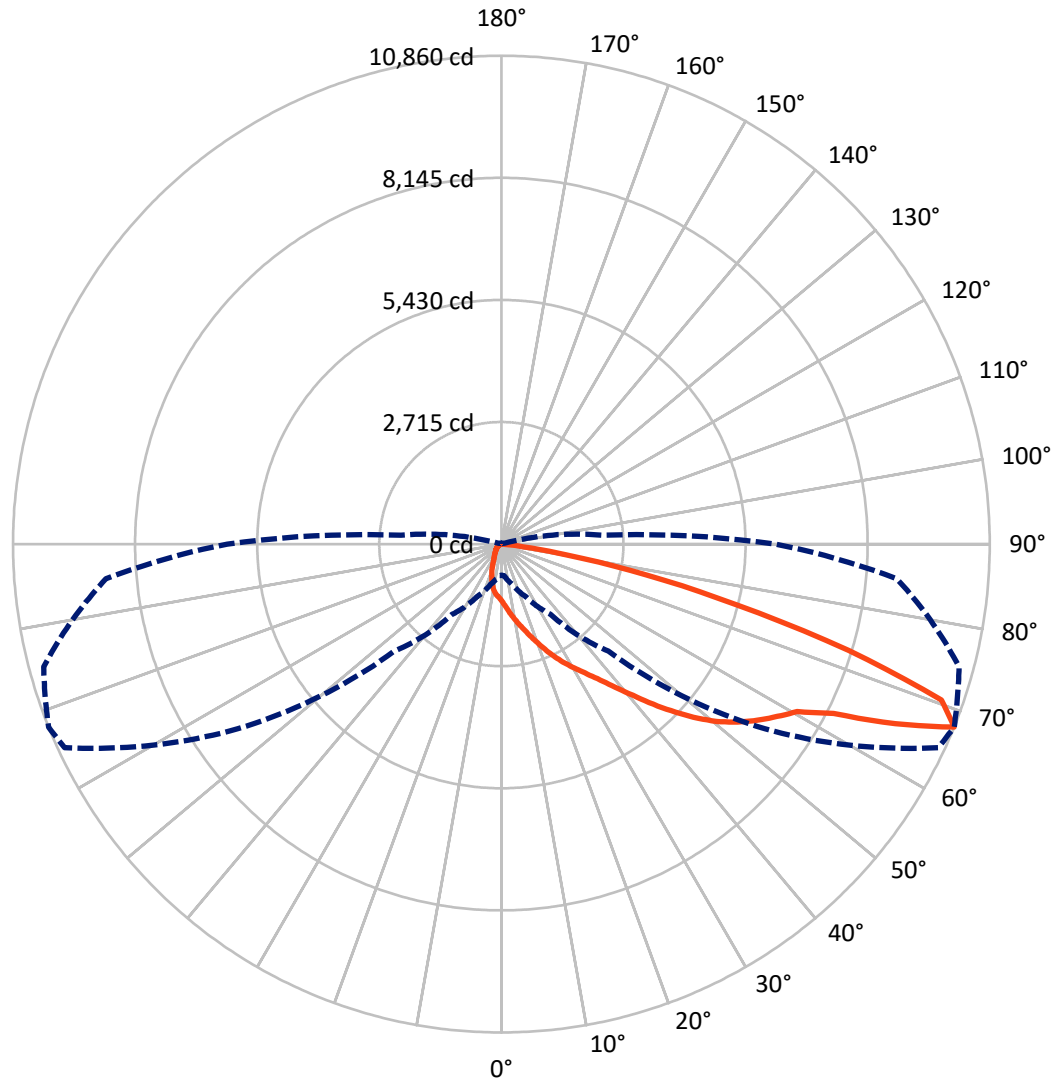
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

REPORT NUMBER: P636785
CATALOG NUMBER: GWS-SA4B-740-U-T2-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P636785

CATALOG NUMBER: GWS-SA4B-740-U-T2-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	782.9	0.0	782.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	10059.2	0.0	10059.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	10842.1	0.0	10842.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.1	1.1
10°-20°	353.4	3.3
20°-30°	607.3	5.6
30°-40°	1055.9	9.7
40°-50°	1842.4	17.0
50°-60°	2778.8	25.6
60°-70°	2786.4	25.7
70°-80°	1229.3	11.3
80°-90°	65.7	0.6
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°	10842.1	100.0
0°-180°	10842.1	100.0

Coefficient of Utilization



REPORT NUMBER: P636785

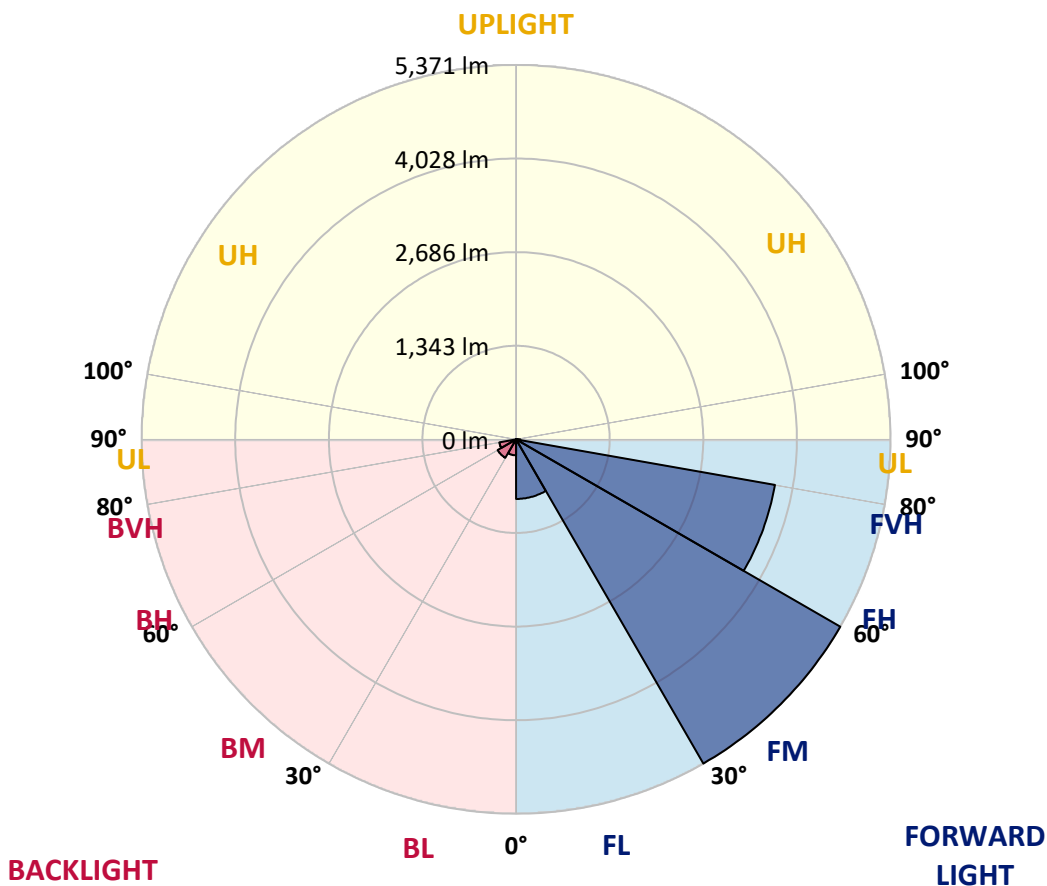
CATALOG NUMBER: GWS-SA4B-740-U-T2-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	854.7	7.9			
FM (30°-60°)	5371.2	49.5			
FH (60°-80°)	3771.4	34.8			G2/5000
FVH (80°-90°)	62.0	0.6			G1/100
BL (0°-30°)	229.1	2.1	B1/500		
BM (30°-60°)	305.8	2.8	B1/1000		
BH (60°-80°)	244.3	2.3	B1/500		G1/500
BVH (80°-90°)	3.7	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-G2

Type II Short





REPORT NUMBER: P636785

CATALOG NUMBER: GWS-SA4B-740-U-T2-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1261.7	1261.7	1261.7	1261.7	1261.7	1261.7	1261.7	1261.7	1261.7	1261.7	1261.7
2.5°	1469.3	1478.6	1469.3	1471.3	1444.4	1431.9	1404.9	1367.6	1358.2	1334.4	1298.1
5°	1648.8	1657.1	1647.7	1645.7	1614.5	1591.7	1547.1	1482.8	1464.1	1417.4	1345.8
7.5°	1746.3	1751.5	1754.6	1759.8	1748.4	1729.7	1689.2	1609.3	1589.6	1513.9	1413.2
10°	1756.7	1760.8	1776.4	1807.5	1830.4	1841.8	1818.9	1745.3	1714.1	1640.5	1496.2
12.5°	1727.6	1733.9	1758.8	1810.6	1873.9	1932.0	1946.6	1882.2	1854.2	1759.8	1593.8
15°	1689.2	1694.4	1728.7	1799.2	1894.7	2001.6	2061.7	2033.7	2002.6	1904.0	1701.7
17.5°	1630.1	1637.4	1685.1	1780.6	1904.0	2056.6	2186.3	2195.6	2173.8	2066.9	1821.0
20°	1596.9	1602.1	1644.6	1743.2	1897.8	2097.0	2302.5	2390.7	2366.8	2254.7	1958.0
22.5°	1624.9	1629.1	1657.1	1733.9	1877.1	2119.9	2410.4	2585.7	2572.3	2456.0	2102.2
25°	1772.3	1785.7	1769.1	1782.6	1886.4	2132.3	2497.5	2780.8	2783.9	2666.7	2251.6
27.5°	2071.1	2053.4	2014.0	1946.6	1959.0	2165.5	2572.3	2964.5	2991.5	2872.1	2384.4
30°	2375.1	2364.7	2340.9	2236.1	2148.9	2239.2	2635.6	3152.3	3194.8	3074.5	2502.7
32.5°	2716.5	2726.9	2684.3	2558.8	2410.4	2388.6	2700.9	3330.8	3410.7	3303.8	2641.8
35°	3124.3	3127.4	3043.3	2904.3	2736.2	2635.6	2818.2	3527.9	3675.2	3596.4	2827.5
37.5°	3521.7	3540.4	3494.7	3275.8	3126.3	2942.7	3012.2	3781.1	3988.6	3957.5	3061.0
40°	3873.4	3902.5	3888.0	3676.3	3480.2	3325.6	3313.1	4077.8	4367.3	4402.6	3369.1
42.5°	4153.6	4172.3	4183.7	4033.2	3859.9	3772.8	3684.6	4422.3	4814.6	4958.8	3746.8
45°	4449.3	4455.5	4479.4	4377.7	4226.2	4233.5	4123.5	4840.5	5285.6	5575.1	4180.6
47.5°	4826.0	4846.7	4835.3	4728.4	4591.5	4673.4	4576.9	5271.1	5750.5	6233.0	4624.7
50°	5284.6	5306.4	5296.0	5171.5	5019.0	5053.2	4993.0	5689.3	6198.7	6853.5	4994.1
52.5°	5521.2	5538.8	5667.5	5723.5	5643.6	5425.7	5347.9	6148.9	6577.5	7364.0	5333.4
55°	5407.0	5419.5	5699.6	5936.2	6228.8	6010.9	5704.8	6503.8	6911.6	7762.4	5585.5
57.5°	4933.9	5001.3	5382.1	5782.7	6398.0	6588.9	6283.8	6889.8	7233.2	8039.5	5833.5
60°	3963.7	3960.6	4506.4	5225.4	6068.0	6747.6	7101.5	7411.7	7555.9	8252.2	6165.5
62.5°	2190.4	2210.1	2936.5	3883.8	5150.7	6336.7	7714.7	8313.4	8291.6	8623.7	6685.4
65°	1090.5	1130.0	1524.3	2224.7	3427.3	5236.9	7820.5	9689.3	9627.0	9498.4	7759.3
67.5°	692.1	707.7	925.6	1292.9	1905.1	3366.0	7161.6	10715.5	10859.7	10536.0	8824.9
70°	448.3	474.2	643.3	884.1	1149.7	1734.9	5246.2	10050.4	10381.4	10421.8	8160.9
72.5°	243.8	262.5	410.9	630.9	830.1	867.4	2946.8	7542.5	8074.8	8840.5	6384.5
75°	139.0	152.5	225.2	428.5	609.1	528.1	1306.4	5049.1	5388.4	6318.1	4574.9
77.5°	84.0	95.5	126.6	208.6	381.8	352.8	493.9	3073.4	3289.3	3769.7	2401.1
80°	38.4	45.7	79.9	115.2	208.6	167.1	188.8	1433.0	1479.6	1547.1	794.8
82.5°	17.6	20.8	36.3	68.5	118.3	96.5	72.6	331.0	465.9	441.0	202.3
85°	2.1	2.1	13.5	28.0	33.2	24.9	30.1	74.7	94.4	132.8	58.1
87.5°	0.0	0.0	1.0	1.0	2.1	3.1	6.2	9.3	13.5	21.8	14.5
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: P636785

CATALOG NUMBER: GWS-SA4B-740-U-T2-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1261.7	1261.7	1261.7	1261.7	1261.7	1261.7	1261.7	1261.7	1261.7	1261.7	1261.7
2.5°	1281.5	1252.4	1226.5	1188.1	1162.1	1133.1	1113.4	1089.5	1080.2	1072.9	1062.5
5°	1310.5	1263.8	1200.5	1130.0	1071.9	1016.9	966.0	932.8	903.8	899.6	885.1
7.5°	1358.2	1288.7	1181.8	1066.7	968.1	876.8	805.2	747.1	718.0	708.7	692.1
10°	1421.5	1326.1	1153.8	977.4	835.3	726.3	645.4	580.0	534.4	517.8	505.3
12.5°	1492.1	1360.3	1109.2	867.4	705.6	581.1	478.3	408.8	379.8	369.4	360.1
15°	1573.0	1392.5	1038.7	757.5	579.0	427.5	354.9	324.8	312.3	309.2	306.1
17.5°	1650.9	1413.2	954.6	643.3	445.1	332.0	297.8	286.4	283.3	280.2	278.1
20°	1739.0	1427.8	856.0	535.4	345.5	281.2	264.6	256.3	250.1	243.8	242.8
22.5°	1829.3	1427.8	749.2	429.6	289.5	252.1	233.5	217.9	206.5	200.3	198.2
25°	1915.4	1408.0	643.3	343.5	255.3	224.1	200.3	182.6	167.1	159.8	157.7
27.5°	1976.7	1357.2	551.0	290.5	231.4	199.2	170.2	150.5	138.0	130.7	129.7
30°	2015.1	1281.5	465.9	259.4	210.6	173.3	144.2	127.6	118.3	113.1	111.0
32.5°	2044.1	1188.1	390.1	237.6	190.9	150.5	125.6	112.1	103.8	99.6	98.6
35°	2102.2	1099.9	334.1	217.9	170.2	131.8	110.0	99.6	93.4	88.2	87.2
37.5°	2183.2	1026.2	289.5	200.3	150.5	117.3	99.6	90.3	85.1	79.9	78.9
40°	2302.5	979.5	256.3	182.6	132.8	105.8	91.3	83.0	75.7	70.6	69.5
42.5°	2486.1	957.7	234.5	165.0	117.3	95.5	84.0	73.7	66.4	61.2	60.2
45°	2705.1	969.1	215.8	147.3	106.9	88.2	74.7	64.3	57.1	51.9	50.8
47.5°	2939.6	1009.6	200.3	130.7	96.5	80.9	66.4	55.0	48.8	43.6	42.5
50°	3184.5	1076.0	186.8	115.2	88.2	72.6	57.1	47.7	41.5	37.4	36.3
52.5°	3397.2	1166.3	173.3	103.8	80.9	64.3	49.8	41.5	35.3	31.1	30.1
55°	3600.5	1251.4	162.9	93.4	72.6	56.0	43.6	35.3	30.1	25.9	24.9
57.5°	3821.6	1341.6	150.5	84.0	65.4	49.8	38.4	30.1	25.9	21.8	20.8
60°	4143.2	1475.5	131.8	76.8	57.1	43.6	33.2	27.0	22.8	17.6	16.6
62.5°	4607.0	1719.3	111.0	66.4	48.8	37.4	28.0	22.8	18.7	14.5	12.5
65°	5474.5	2134.4	91.3	55.0	39.4	31.1	23.9	18.7	14.5	10.4	9.3
67.5°	6099.1	2242.3	73.7	44.6	32.2	23.9	19.7	14.5	10.4	7.3	6.2
70°	5332.3	1610.4	57.1	36.3	27.0	18.7	15.6	11.4	7.3	5.2	4.2
72.5°	4017.7	1052.1	42.5	28.0	20.8	15.6	11.4	9.3	6.2	4.2	3.1
75°	2831.7	608.0	31.1	20.8	14.5	11.4	9.3	7.3	5.2	3.1	3.1
77.5°	1451.6	251.1	21.8	14.5	10.4	7.3	6.2	4.2	4.2	3.1	2.1
80°	441.0	83.0	12.5	9.3	7.3	5.2	3.1	3.1	3.1	2.1	1.0
82.5°	100.6	27.0	7.3	7.3	5.2	4.2	3.1	1.0	1.0	0.0	0.0
85°	25.9	8.3	6.2	5.2	5.2	4.2	2.1	1.0	0.0	0.0	0.0
87.5°	9.3	5.2	5.2	5.2	4.2	3.1	2.1	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)