

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: P632880

Luminaire Tested: GWS-SA2D-750-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632880
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-SA2D-750-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8946.5 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

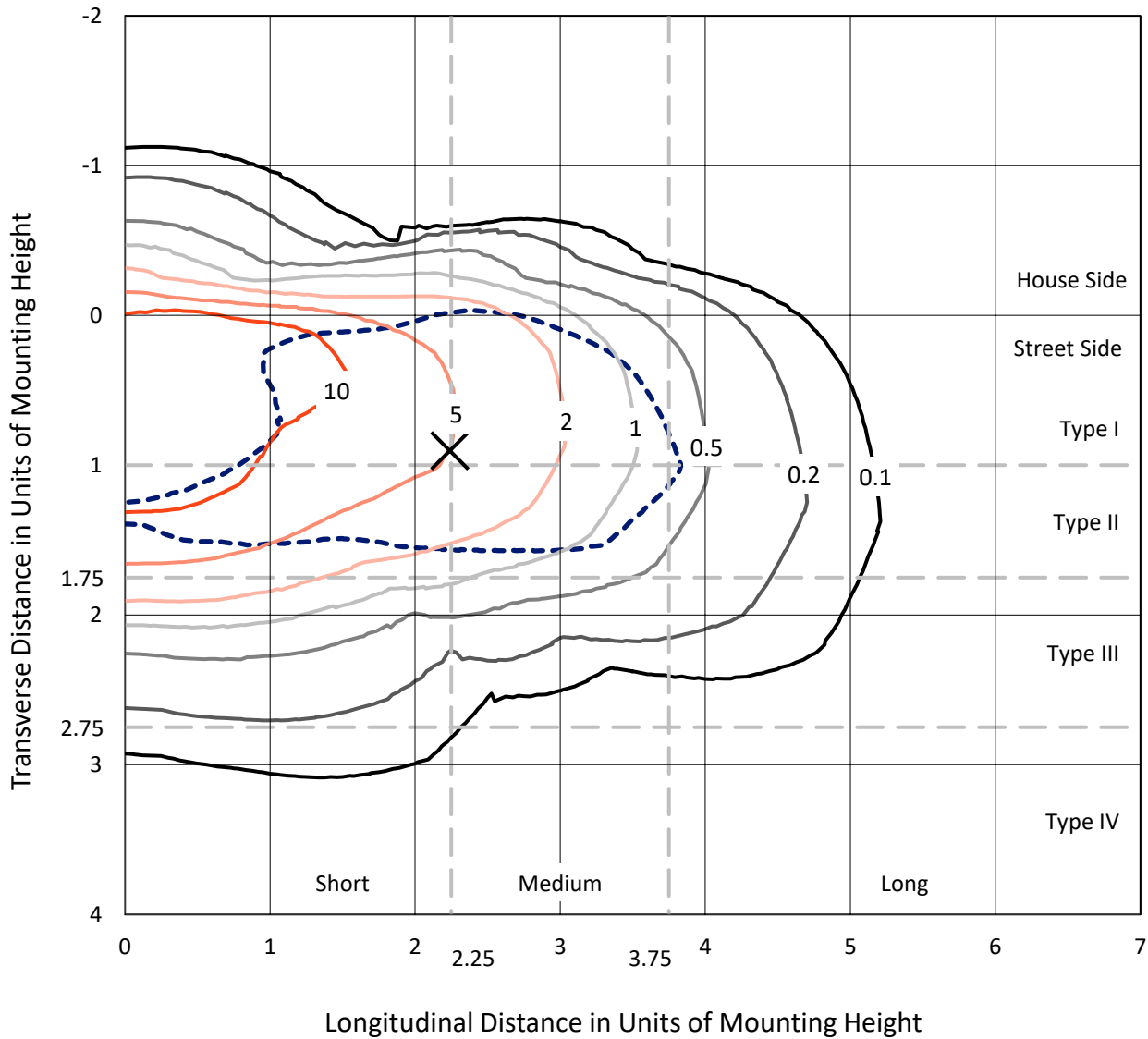
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

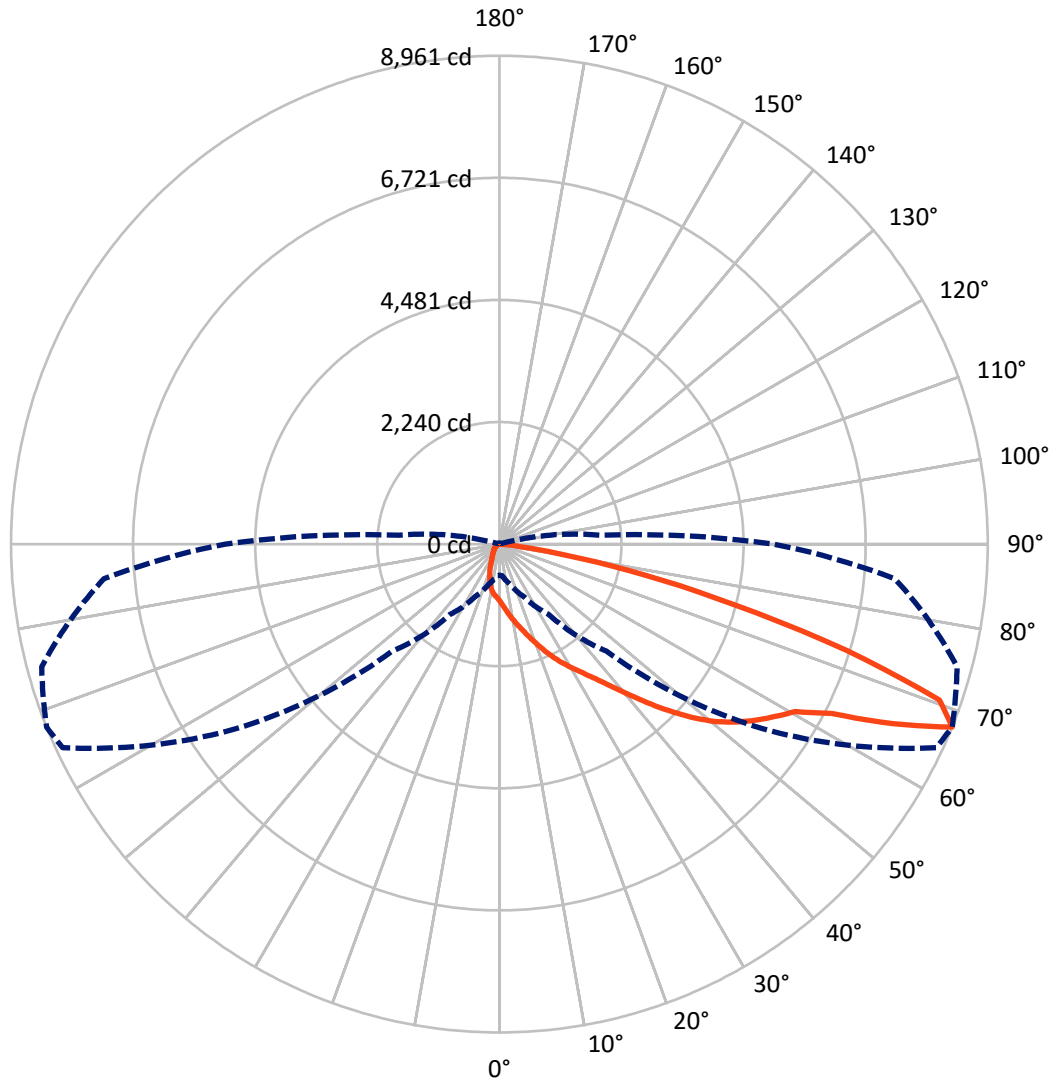
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

REPORT NUMBER: P632880
CATALOG NUMBER: GWS-SA2D-750-U-T2-W-HSS

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	646.0	0.0	646.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	8300.5	0.0	8300.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	8946.5	0.0	8946.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	1.1
10°-20°	291.6	3.3
20°-30°	501.1	5.6
30°-40°	871.3	9.7
40°-50°	1520.2	17.0
50°-60°	2292.9	25.6
60°-70°	2299.2	25.7
70°-80°	1014.4	11.3
80°-90°	54.2	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°	8946.5	100.0
0°-180°	8946.5	100.0

Coefficient of Utilization



REPORT NUMBER: P632880

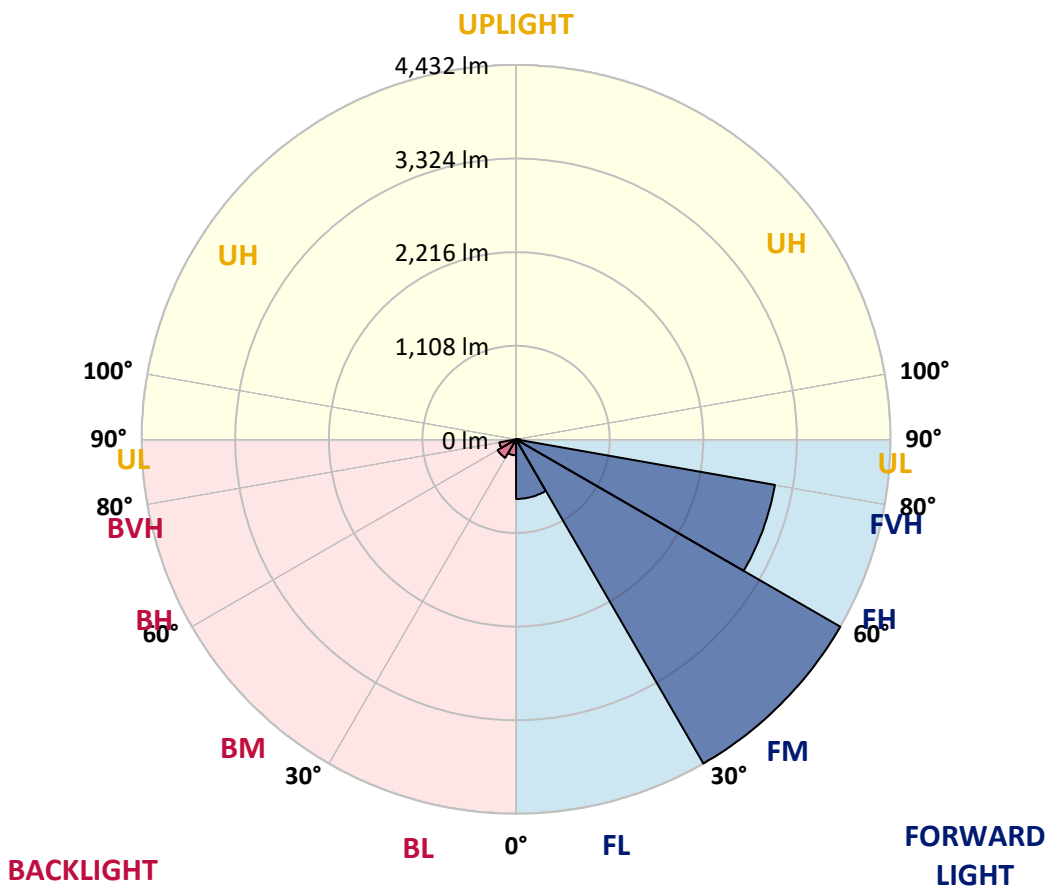
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	705.3	7.9			
FM (30°-60°)	4432.1	49.5			
FH (60°-80°)	3112.0	34.8			G2/5000
FVH (80°-90°)	51.1	0.6			G1/100
BL (0°-30°)	189.0	2.1	B1/500		
BM (30°-60°)	252.4	2.8	B1/1000		
BH (60°-80°)	201.6	2.3	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1041.1	1041.1	1041.1	1041.1	1041.1	1041.1	1041.1	1041.1	1041.1	1041.1	1041.1
2.5°	1212.4	1220.1	1212.4	1214.1	1191.8	1181.6	1159.3	1128.5	1120.8	1101.1	1071.1
5°	1360.5	1367.4	1359.7	1357.9	1332.3	1313.4	1276.6	1223.5	1208.1	1169.6	1110.5
7.5°	1441.0	1445.3	1447.8	1452.1	1442.7	1427.3	1393.9	1328.0	1311.7	1249.2	1166.2
10°	1449.6	1453.0	1465.8	1491.5	1510.3	1519.8	1500.9	1440.1	1414.5	1353.7	1234.6
12.5°	1425.6	1430.7	1451.3	1494.1	1546.3	1594.3	1606.2	1553.2	1530.0	1452.1	1315.1
15°	1393.9	1398.2	1426.4	1484.7	1563.4	1651.6	1701.3	1678.2	1652.5	1571.1	1404.2
17.5°	1345.1	1351.1	1390.5	1469.2	1571.1	1697.0	1804.0	1811.7	1793.7	1705.6	1502.6
20°	1317.7	1322.0	1357.1	1438.4	1566.0	1730.4	1899.9	1972.7	1953.0	1860.5	1615.7
22.5°	1340.8	1344.2	1367.4	1430.7	1548.9	1749.2	1989.0	2133.7	2122.5	2026.6	1734.7
25°	1462.4	1473.5	1459.8	1471.0	1556.6	1759.5	2060.9	2294.6	2297.2	2200.4	1858.0
27.5°	1709.0	1694.4	1661.9	1606.2	1616.5	1786.9	2122.5	2446.2	2468.4	2370.0	1967.6
30°	1959.9	1951.3	1931.6	1845.1	1773.2	1847.7	2174.8	2601.2	2636.3	2536.9	2065.2
32.5°	2241.5	2250.1	2215.0	2111.4	1989.0	1971.0	2228.7	2748.4	2814.3	2726.2	2179.9
35°	2578.0	2580.6	2511.2	2396.5	2257.8	2174.8	2325.5	2911.1	3032.7	2967.6	2333.2
37.5°	2906.0	2921.4	2883.7	2703.0	2579.7	2428.2	2485.6	3120.0	3291.3	3265.6	2525.8
40°	3196.2	3220.2	3208.2	3033.5	2871.7	2744.1	2733.9	3364.9	3603.8	3632.9	2780.1
42.5°	3427.4	3442.8	3452.2	3328.1	3185.1	3113.2	3040.4	3649.1	3972.8	4091.8	3091.8
45°	3671.4	3676.5	3696.2	3612.3	3487.3	3493.3	3402.6	3994.2	4361.5	4600.4	3449.6
47.5°	3982.2	3999.3	3989.9	3901.7	3788.7	3856.3	3776.7	4349.5	4745.1	5143.2	3816.1
50°	4360.7	4378.6	4370.1	4267.3	4141.5	4169.7	4120.1	4694.6	5115.0	5655.2	4120.9
52.5°	4555.9	4570.4	4676.6	4722.8	4656.9	4477.1	4412.9	5073.9	5427.5	6076.5	4400.9
55°	4461.7	4472.0	4703.1	4898.3	5139.8	4960.0	4707.4	5366.7	5703.2	6405.3	4609.0
57.5°	4071.3	4126.9	4441.1	4771.6	5279.4	5436.9	5185.2	5685.2	5968.6	6633.9	4813.6
60°	3270.7	3268.1	3718.5	4311.8	5007.1	5567.9	5859.9	6115.9	6234.9	6809.4	5087.6
62.5°	1807.4	1823.7	2423.1	3204.8	4250.2	5228.8	6365.9	6859.9	6841.9	7115.9	5516.5
65°	899.9	932.4	1257.8	1835.7	2828.0	4321.3	6453.2	7995.2	7943.9	7837.7	6402.7
67.5°	571.1	583.9	763.7	1066.8	1572.0	2777.5	5909.5	8842.0	8961.0	8693.9	7282.0
70°	369.9	391.3	530.8	729.5	948.7	1431.6	4329.0	8293.2	8566.3	8599.7	6734.1
72.5°	201.2	216.6	339.1	520.6	685.0	715.8	2431.6	6223.8	6663.0	7294.9	5268.2
75°	114.7	125.9	185.8	353.6	502.6	435.8	1078.0	4166.3	4446.3	5213.4	3775.0
77.5°	69.4	78.8	104.5	172.1	315.1	291.1	407.6	2536.1	2714.2	3110.6	1981.3
80°	31.7	37.7	65.9	95.0	172.1	137.8	155.8	1182.4	1220.9	1276.6	655.9
82.5°	14.6	17.1	30.0	56.5	97.6	79.6	59.9	273.1	384.4	363.9	167.0
85°	1.7	1.7	11.1	23.1	27.4	20.5	24.8	61.6	77.9	109.6	47.9
87.5°	0.0	0.0	0.9	0.9	1.7	2.6	5.1	7.7	11.1	18.0	12.0
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°	1041.1	1041.1	1041.1	1041.1	1041.1	1041.1	1041.1	1041.1	1041.1	1041.1	1041.1
2.5°	1057.4	1033.4	1012.0	980.4	958.9	935.0	918.7	899.0	891.3	885.3	876.8
5°	1081.4	1042.9	990.6	932.4	884.5	839.1	797.1	769.7	745.8	742.3	730.3
7.5°	1120.8	1063.4	975.2	880.2	798.8	723.5	664.4	616.5	592.5	584.8	571.1
10°	1173.0	1094.2	952.1	806.5	689.2	599.3	532.6	478.6	440.9	427.2	417.0
12.5°	1231.2	1122.5	915.3	715.8	582.2	479.5	394.7	337.3	313.4	304.8	297.1
15°	1298.0	1149.0	857.1	625.0	477.8	352.8	292.8	268.0	257.7	255.1	252.6
17.5°	1362.2	1166.2	787.7	530.8	367.3	274.0	245.7	236.3	233.7	231.2	229.5
20°	1435.0	1178.1	706.4	441.8	285.1	232.0	218.3	211.5	206.3	201.2	200.4
22.5°	1509.5	1178.1	618.2	354.5	238.9	208.1	192.6	179.8	170.4	165.2	163.5
25°	1580.6	1161.9	530.8	283.4	210.6	184.9	165.2	150.7	137.8	131.9	130.1
27.5°	1631.1	1119.9	454.6	239.7	190.9	164.4	140.4	124.1	113.9	107.9	107.0
30°	1662.7	1057.4	384.4	214.1	173.8	143.0	119.0	105.3	97.6	93.3	91.6
32.5°	1686.7	980.4	321.9	196.1	157.5	124.1	103.6	92.5	85.6	82.2	81.3
35°	1734.7	907.6	275.7	179.8	140.4	108.7	90.8	82.2	77.1	72.8	71.9
37.5°	1801.5	846.8	238.9	165.2	124.1	96.8	82.2	74.5	70.2	65.9	65.1
40°	1899.9	808.3	211.5	150.7	109.6	87.3	75.3	68.5	62.5	58.2	57.4
42.5°	2051.5	790.3	193.5	136.1	96.8	78.8	69.4	60.8	54.8	50.5	49.7
45°	2232.1	799.7	178.1	121.6	88.2	72.8	61.6	53.1	47.1	42.8	42.0
47.5°	2425.6	833.1	165.2	107.9	79.6	66.8	54.8	45.4	40.2	36.0	35.1
50°	2627.7	887.9	154.1	95.0	72.8	59.9	47.1	39.4	34.2	30.8	30.0
52.5°	2803.2	962.4	143.0	85.6	66.8	53.1	41.1	34.2	29.1	25.7	24.8
55°	2971.0	1032.6	134.4	77.1	59.9	46.2	36.0	29.1	24.8	21.4	20.5
57.5°	3153.4	1107.1	124.1	69.4	53.9	41.1	31.7	24.8	21.4	18.0	17.1
60°	3418.8	1217.5	108.7	63.4	47.1	36.0	27.4	22.3	18.8	14.6	13.7
62.5°	3801.5	1418.7	91.6	54.8	40.2	30.8	23.1	18.8	15.4	12.0	10.3
65°	4517.3	1761.2	75.3	45.4	32.5	25.7	19.7	15.4	12.0	8.6	7.7
67.5°	5032.8	1850.3	60.8	36.8	26.5	19.7	16.3	12.0	8.6	6.0	5.1
70°	4400.0	1328.8	47.1	30.0	22.3	15.4	12.8	9.4	6.0	4.3	3.4
72.5°	3315.2	868.2	35.1	23.1	17.1	12.8	9.4	7.7	5.1	3.4	2.6
75°	2336.6	501.7	25.7	17.1	12.0	9.4	7.7	6.0	4.3	2.6	2.6
77.5°	1197.8	207.2	18.0	12.0	8.6	6.0	5.1	3.4	3.4	2.6	1.7
80°	363.9	68.5	10.3	7.7	6.0	4.3	2.6	2.6	2.6	1.7	0.9
82.5°	83.1	22.3	6.0	6.0	4.3	3.4	2.6	0.9	0.9	0.0	0.0
85°	21.4	6.8	5.1	4.3	4.3	3.4	1.7	0.9	0.0	0.0	0.0
87.5°	7.7	4.3	4.3	4.3	3.4	2.6	1.7	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)