

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: P632782

Luminaire Tested: GWS-SA2D-735-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-735-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9015.1 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

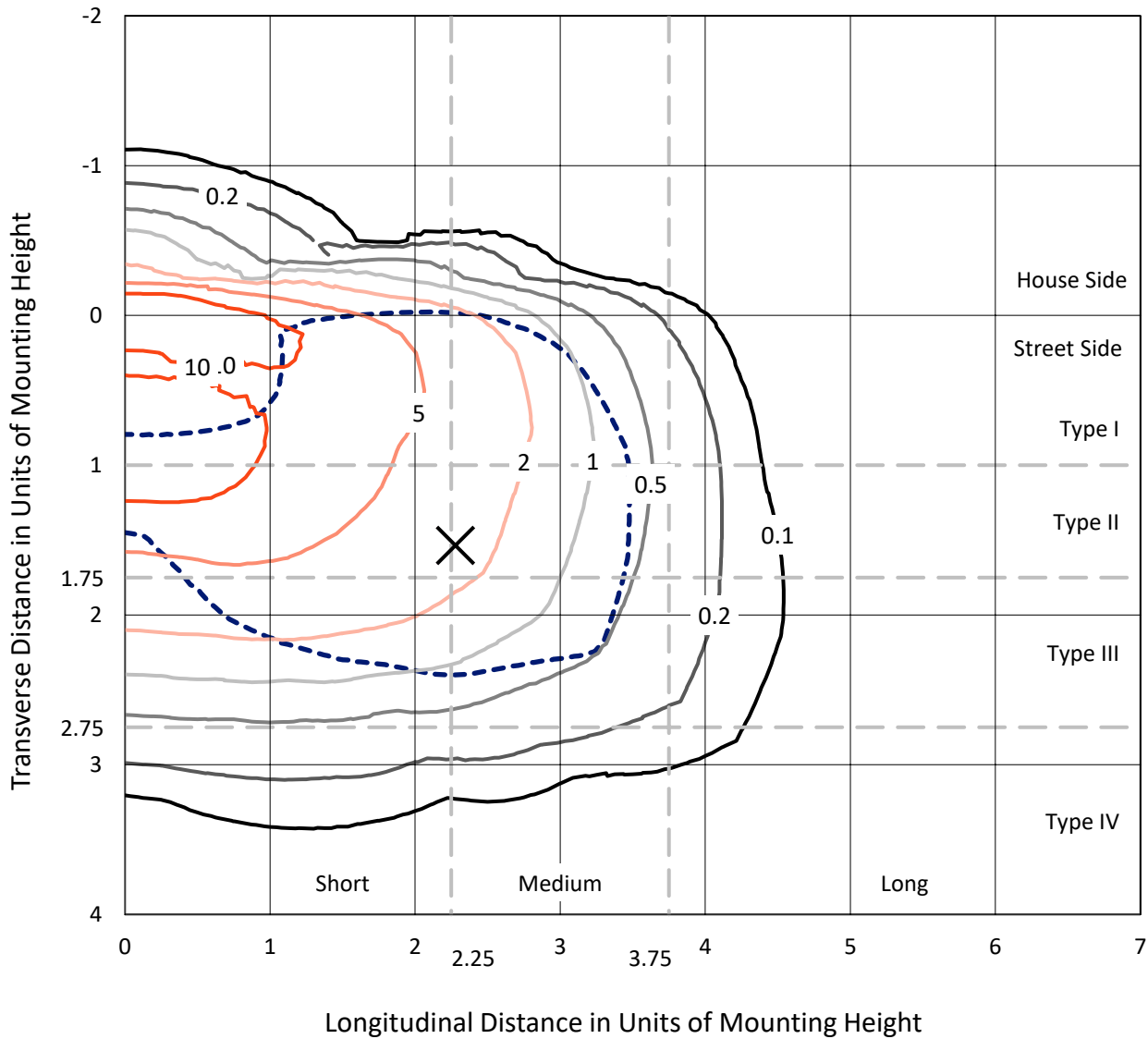
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

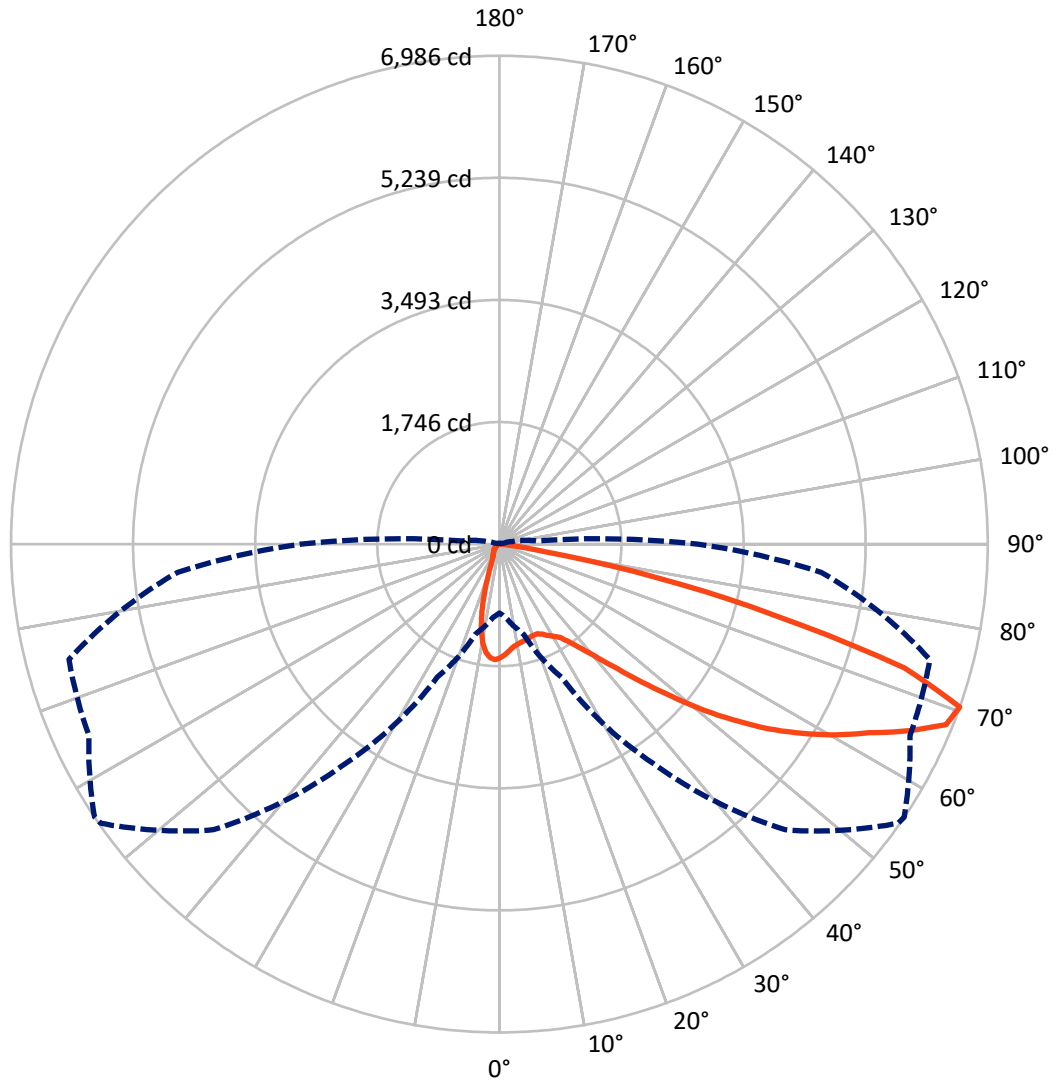
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	809.7	0.0	809.7
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	8205.4	0.0	8205.4
	% Fixture	91.0	0.0	91.0
Total	Lumens	9015.1	0.0	9015.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	1.5
10°-20°	313.9	3.5
20°-30°	497.2	5.5
30°-40°	857.4	9.5
40°-50°	1447.9	16.1
50°-60°	2127.5	23.6
60°-70°	2522.2	28.0
70°-80°	1075.6	11.9
80°-90°	33.8	0.4
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°	9015.1	100.0
0°-180°	9015.1	100.0

Coefficient of Utilization



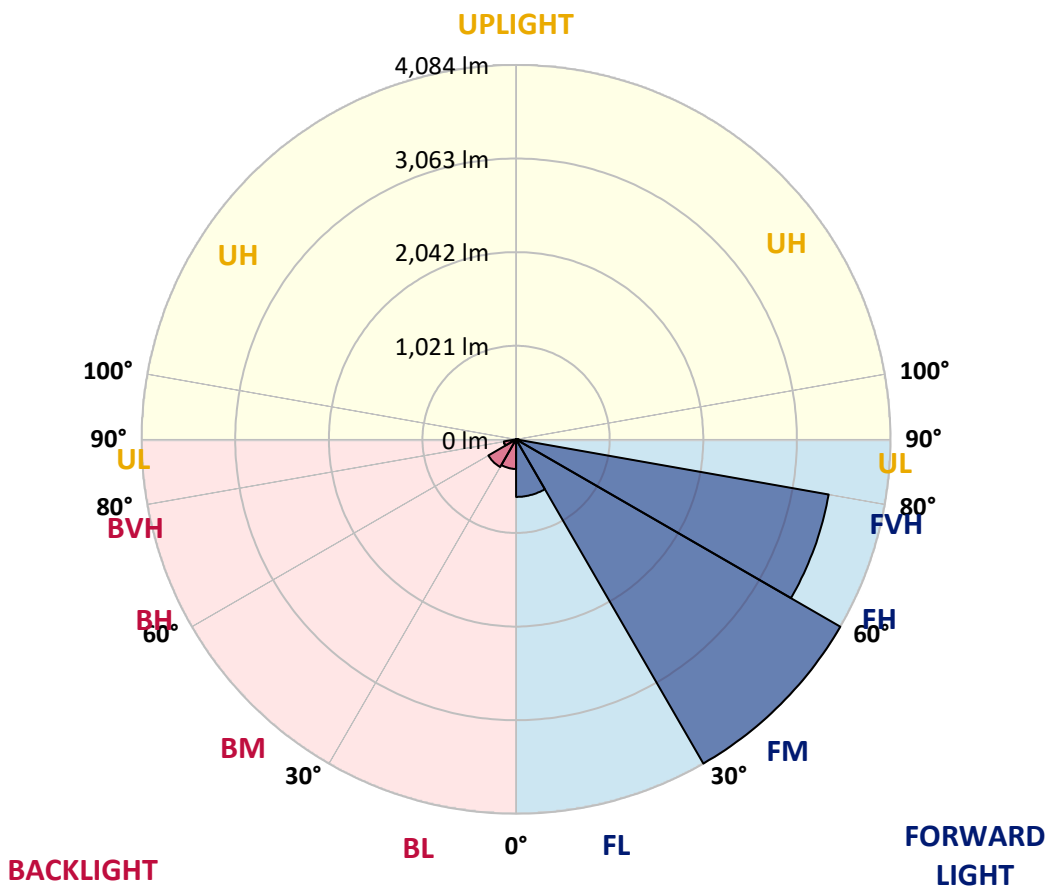
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	628.2	7.0			
FM (30°-60°)	4084.1	45.3			
FH (60°-80°)	3462.8	38.4			G2/5000
FVH (80°-90°)	30.3	0.3			G1/100
BL (0°-30°)	322.5	3.6	B1/500		
BM (30°-60°)	348.8	3.9	B1/1000		
BH (60°-80°)	135.1	1.5	B1/500		G1/500
BVH (80°-90°)	3.4	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5
2.5°	1513.2	1510.8	1512.4	1524.8	1547.9	1558.6	1576.8	1580.1	1595.0	1614.0	1621.4
5°	1415.0	1406.7	1410.9	1428.2	1454.6	1484.3	1518.2	1527.3	1564.4	1606.5	1637.9
7.5°	1325.0	1315.9	1325.8	1353.1	1390.2	1422.4	1472.8	1478.6	1538.0	1612.3	1669.3
10°	1183.8	1186.3	1206.1	1254.0	1311.0	1377.8	1445.5	1453.8	1527.3	1631.3	1719.6
12.5°	1075.7	1069.9	1091.4	1145.9	1225.9	1323.4	1424.9	1435.6	1528.1	1660.2	1784.0
15°	1025.3	1023.7	1032.8	1072.4	1150.0	1264.7	1405.9	1420.0	1538.8	1686.6	1845.1
17.5°	1027.0	1024.5	1023.7	1046.8	1104.6	1221.0	1385.3	1403.4	1547.9	1715.5	1909.5
20°	1098.8	1087.3	1066.6	1055.9	1090.6	1192.9	1371.2	1391.9	1561.1	1746.0	1978.0
22.5°	1249.1	1253.2	1197.9	1140.1	1123.6	1196.2	1369.6	1393.5	1590.0	1793.9	2062.2
25°	1549.6	1543.0	1440.6	1311.0	1221.0	1234.2	1398.5	1427.4	1647.0	1862.4	2141.5
27.5°	1926.0	1931.8	1791.4	1585.1	1396.8	1312.6	1451.3	1480.2	1713.0	1905.4	2194.3
30°	2336.3	2330.5	2180.3	1951.6	1646.2	1443.1	1504.2	1529.7	1746.0	1928.5	2248.8
32.5°	2724.3	2711.1	2562.5	2323.1	1964.0	1648.6	1576.8	1591.7	1789.8	1978.8	2322.3
35°	3055.4	3054.5	2924.9	2669.8	2290.9	1906.2	1701.5	1713.8	1871.5	2058.9	2430.4
37.5°	3397.1	3385.6	3240.3	3007.5	2626.9	2188.5	1892.2	1887.2	2000.3	2177.0	2563.3
40°	3677.8	3670.4	3559.0	3335.2	2976.1	2500.6	2123.3	2108.5	2153.0	2340.4	2748.3
42.5°	3885.9	3886.7	3852.0	3715.8	3346.0	2861.4	2413.9	2390.8	2390.0	2587.3	2992.6
45°	4043.6	4054.3	4106.3	4085.7	3782.7	3281.6	2786.2	2762.3	2721.8	2907.6	3272.5
47.5°	4117.0	4131.1	4287.9	4370.5	4164.9	3698.5	3229.6	3179.2	3100.0	3333.6	3585.4
50°	4109.6	4134.4	4353.1	4604.1	4511.6	4121.2	3712.5	3688.6	3559.0	3784.3	3895.0
52.5°	3941.2	3994.0	4357.3	4746.1	4778.3	4510.8	4212.0	4167.4	4104.6	4254.9	4185.6
55°	3483.8	3548.2	4183.1	4791.5	4986.3	4850.9	4700.7	4664.4	4560.4	4699.0	4439.0
57.5°	3235.3	3290.7	3816.5	4769.2	5163.0	5165.5	5135.8	5106.0	5020.2	5138.2	4736.2
60°	3085.9	3141.2	3620.9	4687.5	5323.2	5497.4	5544.4	5541.1	5417.3	5637.7	5084.6
62.5°	2867.1	2943.1	3417.0	4475.3	5437.1	5824.3	5966.3	5944.0	5806.1	6157.8	5429.7
65°	2425.5	2491.5	2999.2	4125.3	5370.2	6095.1	6423.6	6435.2	6275.9	6647.4	5702.1
67.5°	1700.6	1749.3	2253.8	3390.5	4916.2	6184.2	6891.7	6890.9	6619.3	6898.3	5581.6
70°	985.7	1052.6	1331.6	2096.1	3824.8	5778.9	6961.9	6985.8	6479.8	6374.1	4619.0
72.5°	381.4	436.7	754.6	1113.7	1994.5	4426.6	5988.6	6058.7	5423.1	4917.0	3214.7
75°	113.9	127.1	355.0	592.7	800.8	2138.2	4054.3	4074.1	3719.9	3066.9	1647.8
77.5°	85.0	94.1	155.2	299.7	280.7	648.1	2097.7	2290.9	1974.7	1095.5	454.1
80°	57.8	68.5	110.6	146.1	104.0	172.5	589.4	647.2	602.7	246.0	113.9
82.5°	25.6	33.0	78.4	73.5	38.0	49.5	181.6	193.2	124.7	74.3	39.6
85°	2.5	3.3	29.7	32.2	14.0	11.6	38.0	38.0	27.2	25.6	16.5
87.5°	0.0	0.0	0.8	1.7	1.7	2.5	3.3	4.1	5.0	6.6	8.3
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°	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5	1625.5
2.5°	1640.4	1630.5	1642.8	1652.8	1655.2	1637.1	1626.3	1610.7	1607.4	1608.2	1604.0
5°	1662.7	1657.7	1666.8	1656.1	1628.0	1575.2	1529.7	1479.4	1452.1	1436.5	1434.8
7.5°	1703.9	1701.5	1691.6	1642.8	1555.3	1438.1	1325.0	1214.4	1145.9	1121.1	1117.0
10°	1765.0	1760.1	1719.6	1604.0	1417.5	1192.1	1002.2	843.7	747.1	719.1	684.4
12.5°	1835.2	1825.3	1737.0	1520.7	1209.4	897.4	660.4	482.9	399.6	374.8	374.8
15°	1902.9	1881.4	1727.1	1382.8	953.5	583.7	369.0	279.0	253.4	246.8	246.8
17.5°	1972.2	1931.0	1688.3	1194.6	658.8	345.1	246.0	228.7	225.4	226.2	227.0
20°	2037.5	1973.1	1619.7	968.4	420.2	241.1	220.4	216.3	214.6	216.3	215.5
22.5°	2108.5	2011.9	1515.7	721.5	273.3	217.1	209.7	206.4	204.7	207.2	207.2
25°	2178.6	2039.9	1377.8	485.4	217.1	202.3	198.1	194.8	193.2	194.0	194.0
27.5°	2215.0	2029.2	1197.1	309.6	194.8	187.4	183.3	179.1	176.7	175.8	176.7
30°	2239.7	1996.2	975.8	220.4	176.7	167.6	163.5	160.2	153.6	149.4	151.1
32.5°	2278.5	1963.2	735.6	184.9	161.8	147.8	141.2	132.9	123.8	119.7	119.7
35°	2324.8	1917.8	516.0	166.8	146.1	131.3	118.9	104.8	94.1	90.8	90.8
37.5°	2385.8	1874.8	343.4	154.4	132.9	117.2	99.9	83.4	71.8	70.2	69.3
40°	2477.5	1838.5	241.9	145.3	121.4	102.4	81.7	64.4	56.1	53.7	53.7
42.5°	2596.4	1801.4	191.5	136.2	111.4	88.3	65.2	51.2	44.6	42.9	42.1
45°	2743.3	1757.6	166.8	128.0	101.5	73.5	52.0	42.9	38.0	36.3	36.3
47.5°	2902.6	1698.2	155.2	117.2	90.0	59.4	43.8	37.1	34.7	33.8	33.0
50°	3059.5	1618.1	145.3	107.3	76.8	48.7	38.0	33.8	32.2	31.4	31.4
52.5°	3196.5	1524.8	132.9	95.8	62.7	42.1	33.8	31.4	29.7	28.1	27.2
55°	3313.8	1423.3	117.2	82.6	51.2	37.1	31.4	28.9	27.2	25.6	24.8
57.5°	3464.8	1365.5	94.1	66.9	42.1	33.0	28.9	26.4	24.8	22.3	22.3
60°	3632.4	1323.4	70.2	52.8	36.3	30.5	26.4	23.9	22.3	19.8	19.8
62.5°	3767.0	1260.6	55.3	42.9	31.4	27.2	23.9	21.5	19.8	17.3	17.3
65°	3818.2	1131.0	45.4	33.8	25.6	23.9	21.5	19.8	17.3	14.9	14.9
67.5°	3587.0	871.8	38.0	27.2	21.5	20.6	19.0	18.2	14.9	13.2	12.4
70°	2840.7	531.7	31.4	22.3	18.2	17.3	17.3	15.7	13.2	12.4	11.6
72.5°	1946.7	274.1	25.6	18.2	15.7	15.7	14.9	14.0	12.4	11.6	11.6
75°	1011.3	91.6	19.8	14.0	12.4	13.2	13.2	12.4	11.6	11.6	10.7
77.5°	289.8	41.3	14.9	10.7	9.9	9.9	10.7	10.7	10.7	9.9	9.9
80°	75.1	23.9	10.7	8.3	8.3	8.3	8.3	9.1	9.9	9.1	9.1
82.5°	30.5	13.2	7.4	6.6	6.6	6.6	6.6	7.4	8.3	8.3	8.3
85°	19.0	6.6	5.8	5.8	5.8	5.0	5.0	5.8	5.8	6.6	6.6
87.5°	11.6	5.0	5.0	5.0	5.0	4.1	4.1	4.1	4.1	4.1	4.1
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)