

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: P631273

Luminaire Tested: GWS-SA1F-735-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-735-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7980.3 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

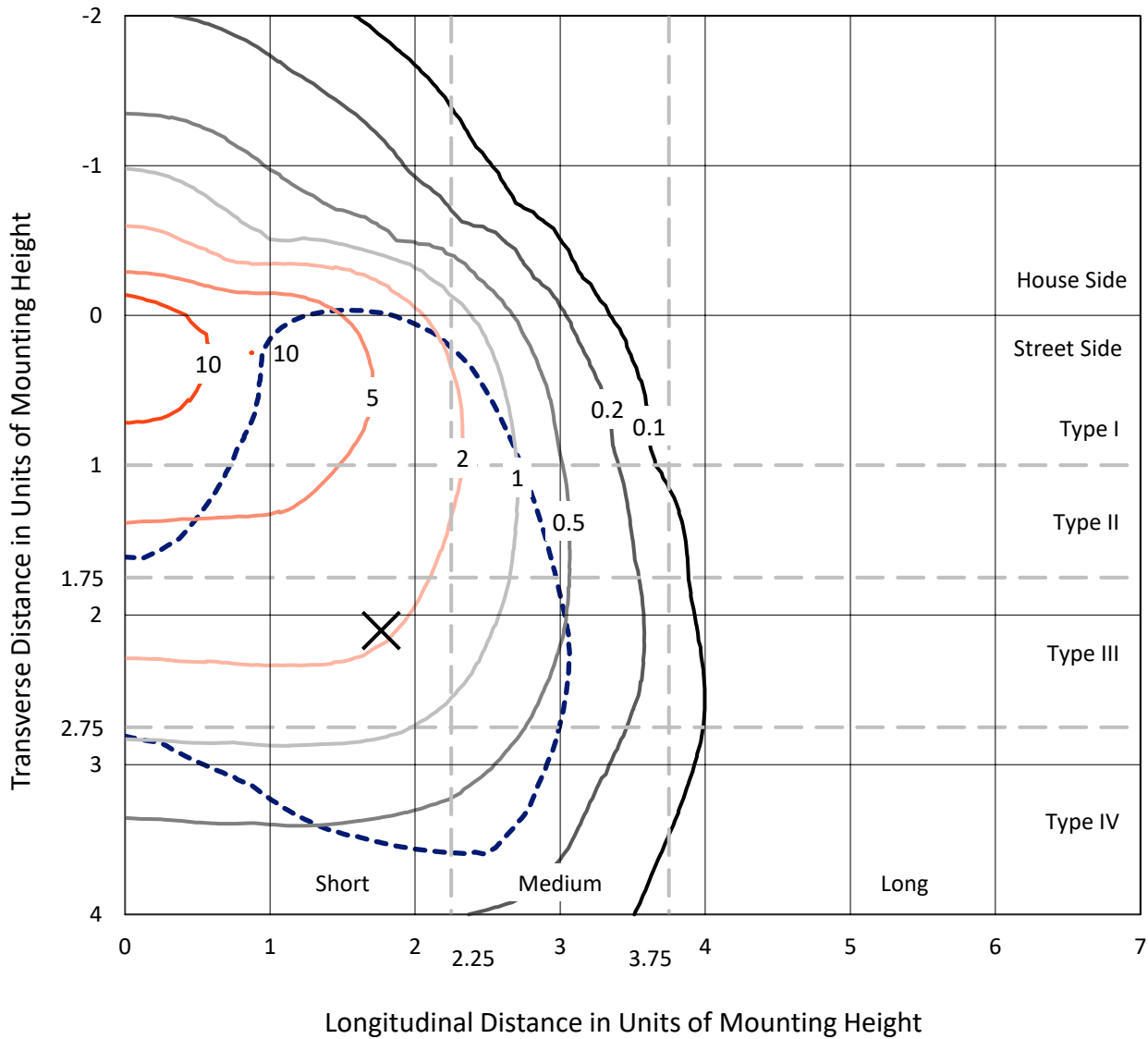
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

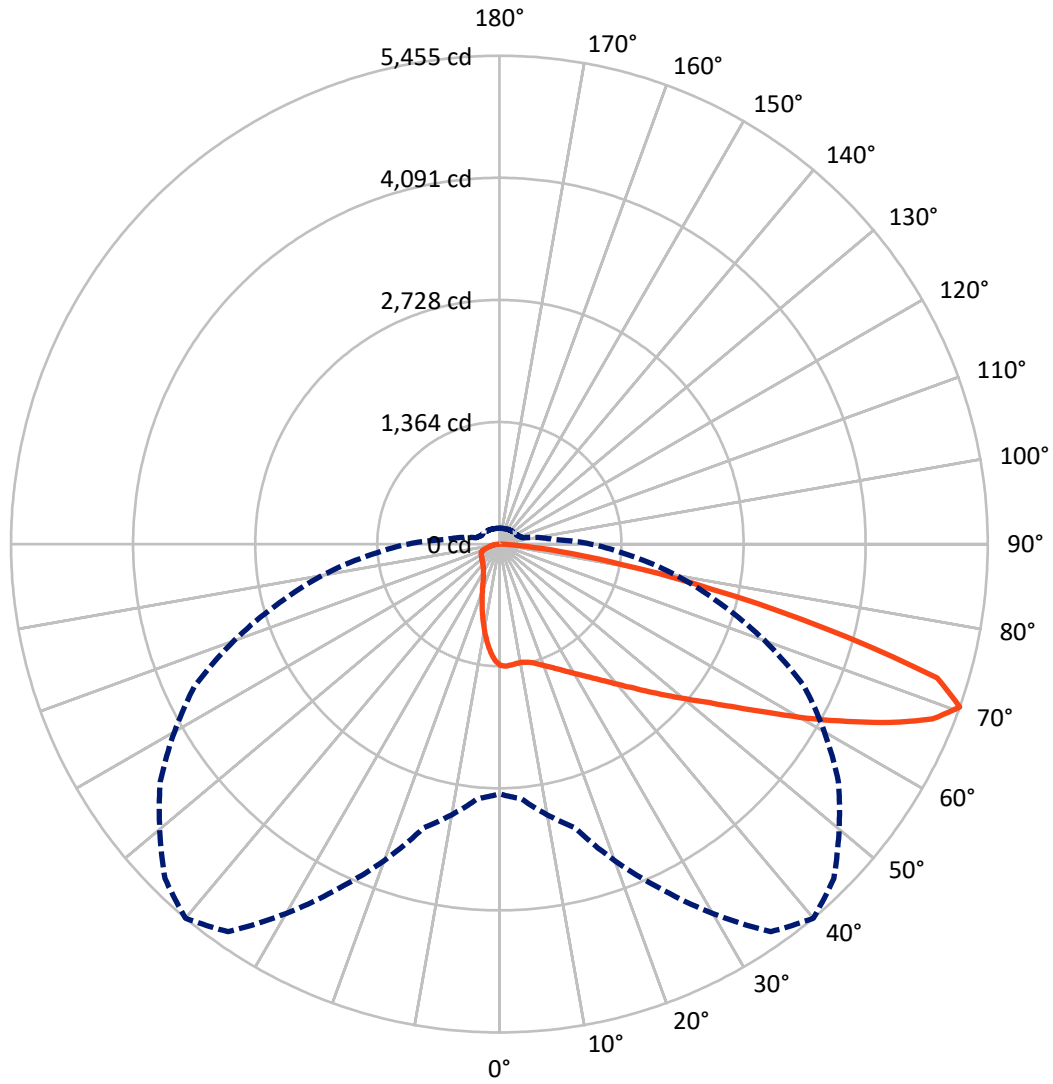
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1229.2	0.0	1229.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	6751.1	0.0	6751.1
	% Fixture	84.6	0.0	84.6
Total	Lumens	7980.3	0.0	7980.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	1.5
10°-20°	312.0	3.9
20°-30°	490.0	6.1
30°-40°	736.7	9.2
40°-50°	1137.1	14.2
50°-60°	1688.7	21.2
60°-70°	2128.6	26.7
70°-80°	1230.9	15.4
80°-90°	136.6	1.7
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°	7980.3	100.0
0°-180°	7980.3	100.0

Coefficient of Utilization



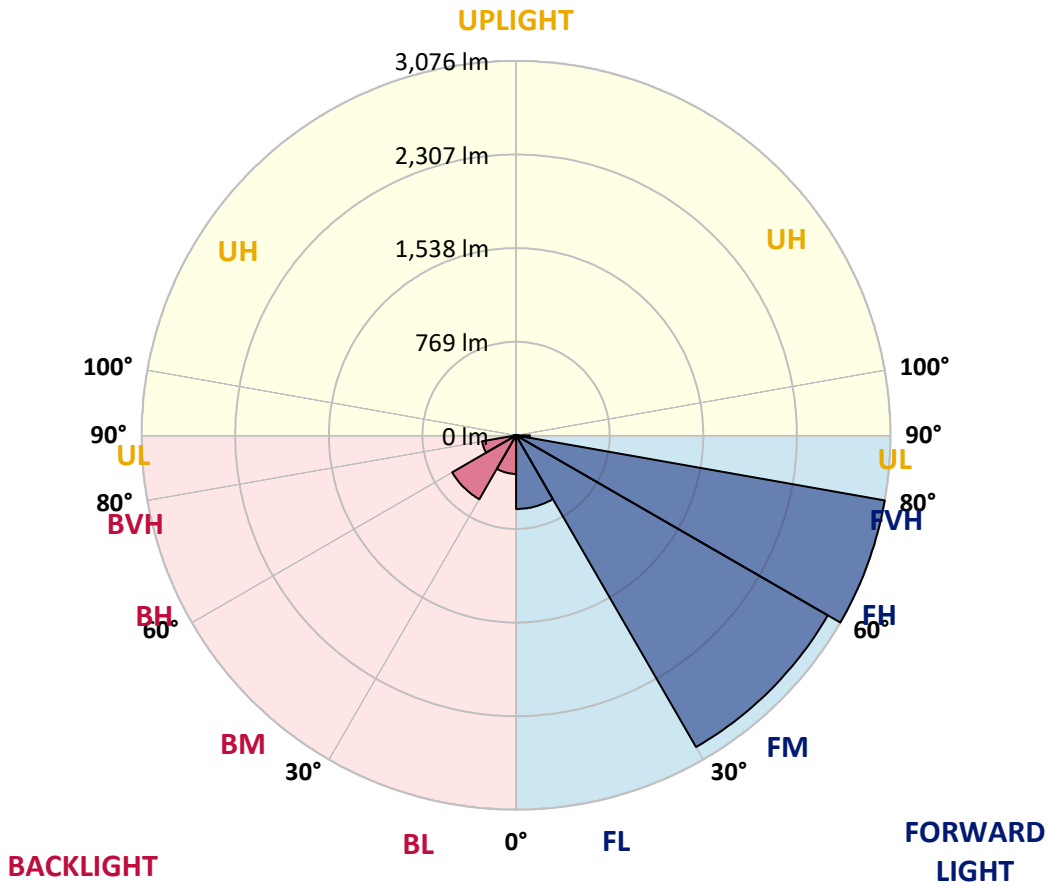
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	605.0	7.6			
FM (30°-60°)	2956.6	37.0			
FH (60°-80°)	3075.8	38.5			G2/5000
FVH (80°-90°)	113.8	1.4			G2/225
BL (0°-30°)	316.8	4.0	B1/500		
BM (30°-60°)	605.9	7.6	B1/1000		
BH (60°-80°)	283.7	3.6	B1/500		G1/500
BVH (80°-90°)	22.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1
2.5°	1363.5	1365.9	1367.7	1370.0	1368.8	1365.3	1368.3	1368.3	1361.7	1354.6	1348.0
5°	1365.3	1368.3	1367.7	1367.1	1362.3	1356.3	1356.3	1352.8	1341.4	1330.1	1319.4
7.5°	1361.7	1361.1	1360.5	1358.7	1353.4	1346.8	1345.6	1338.5	1323.6	1308.1	1292.6
10°	1345.6	1345.0	1346.8	1351.0	1349.8	1343.8	1343.8	1337.3	1320.0	1300.9	1280.7
12.5°	1332.5	1332.5	1339.7	1351.0	1355.1	1352.8	1353.4	1348.6	1328.9	1306.3	1282.5
15°	1334.3	1334.9	1350.4	1368.8	1376.6	1374.8	1375.4	1370.0	1348.0	1325.4	1293.2
17.5°	1346.2	1349.2	1376.0	1401.6	1411.7	1409.4	1405.2	1396.2	1371.2	1345.6	1306.3
20°	1371.2	1376.0	1410.5	1442.7	1454.6	1449.3	1442.1	1424.2	1396.8	1368.8	1320.6
22.5°	1420.7	1423.6	1461.8	1493.3	1502.9	1496.3	1482.0	1456.4	1424.8	1395.7	1337.9
25°	1490.4	1493.9	1530.3	1559.5	1557.1	1549.3	1529.7	1498.1	1460.6	1429.6	1362.9
27.5°	1573.2	1579.1	1614.9	1638.1	1622.6	1611.3	1589.2	1551.1	1508.8	1480.8	1401.0
30°	1663.7	1666.1	1696.5	1719.7	1695.9	1680.4	1653.6	1612.5	1574.4	1553.5	1458.2
32.5°	1751.3	1753.6	1779.9	1793.0	1767.9	1756.6	1733.4	1689.9	1663.1	1651.8	1543.4
35°	1843.6	1843.0	1864.4	1875.8	1850.1	1845.4	1821.6	1788.2	1783.4	1798.3	1667.9
37.5°	1935.9	1930.6	1941.9	1956.8	1942.5	1947.2	1931.8	1920.4	1938.9	1977.6	1833.5
40°	2009.8	2009.8	2021.7	2040.2	2044.9	2065.8	2056.8	2071.7	2131.3	2223.6	2038.4
42.5°	2075.3	2075.9	2100.9	2129.5	2164.1	2196.2	2203.4	2242.1	2365.4	2510.1	2295.7
45°	2143.8	2144.4	2178.4	2220.1	2293.3	2354.7	2369.0	2455.9	2632.3	2808.6	2575.1
47.5°	2223.0	2216.5	2263.5	2333.2	2437.5	2525.6	2562.6	2685.9	2908.7	3125.5	2838.4
50°	2312.4	2298.7	2351.1	2471.4	2600.1	2721.0	2783.0	2924.1	3205.3	3417.9	3086.2
52.5°	2413.1	2405.3	2460.1	2606.6	2803.2	2942.6	3026.6	3211.8	3493.6	3709.2	3282.7
55°	2538.1	2519.7	2598.9	2785.3	3041.5	3219.0	3318.5	3496.6	3808.7	3973.7	3432.8
57.5°	2675.1	2654.9	2760.9	3008.7	3351.2	3546.0	3670.5	3817.0	4105.3	4176.2	3521.0
60°	2822.9	2816.3	2942.0	3270.8	3720.5	3946.9	4036.8	4169.7	4363.3	4293.6	3499.0
62.5°	2958.1	2955.7	3138.6	3555.0	4111.9	4360.9	4432.4	4467.5	4549.1	4285.8	3323.8
65°	3100.5	3120.7	3367.9	3884.4	4560.4	4804.7	4834.4	4745.1	4611.7	4082.7	2965.2
67.5°	3118.3	3157.6	3512.1	4192.9	4985.7	5216.3	5192.4	4850.5	4427.0	3517.4	2324.3
70°	2788.9	2857.4	3282.1	4240.0	5285.4	5455.1	5283.0	4623.6	3756.9	2548.3	1461.8
72.5°	2330.3	2389.2	2764.5	3615.7	4898.8	5115.0	4882.1	3913.5	2654.9	1461.8	744.6
75°	1813.8	1882.3	2228.4	2874.1	3667.5	3753.9	3637.2	2729.4	1459.4	602.8	338.3
77.5°	1106.8	1156.2	1425.4	1947.2	2566.1	2436.9	2065.2	1530.3	640.3	288.9	209.1
80°	489.6	520.0	702.3	1046.0	1482.6	1401.6	1105.0	653.4	350.3	183.5	145.9
82.5°	262.7	282.3	346.1	414.0	651.1	680.8	552.2	376.5	188.2	104.8	83.4
85°	115.6	126.9	157.3	150.1	213.8	210.3	212.1	258.5	89.9	48.2	54.2
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	6.6	34.5	8.9	14.3	12.5
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°	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1	1355.1
2.5°	1340.9	1330.1	1327.2	1323.6	1317.0	1305.7	1297.4	1287.8	1283.7	1278.9	1279.5
5°	1307.5	1294.4	1281.9	1265.8	1245.5	1222.9	1207.4	1189.6	1180.0	1171.1	1173.5
7.5°	1278.9	1258.6	1233.0	1199.1	1162.7	1122.2	1089.5	1063.9	1046.6	1034.7	1040.6
10°	1261.0	1237.2	1192.5	1137.1	1075.8	1013.8	966.8	922.7	895.3	873.8	872.7
12.5°	1257.5	1226.5	1161.6	1081.1	992.4	909.6	840.5	780.9	744.6	717.8	727.9
15°	1261.0	1221.7	1134.7	1029.3	917.3	805.3	719.6	651.1	607.6	583.2	581.4
17.5°	1265.2	1217.0	1104.4	973.3	838.7	710.6	611.2	538.5	493.8	469.4	470.0
20°	1268.8	1209.8	1068.6	912.0	758.9	622.5	519.4	450.3	410.4	392.5	395.5
22.5°	1274.7	1202.7	1030.5	846.4	677.3	537.3	446.8	390.8	366.9	355.0	355.6
25°	1286.0	1198.5	991.2	775.0	596.9	469.4	396.7	359.2	344.3	337.1	336.6
27.5°	1309.3	1202.1	950.1	705.9	524.2	417.6	364.5	340.1	330.0	325.2	324.6
30°	1348.0	1216.4	914.4	635.6	461.6	377.1	342.5	327.6	321.7	317.5	316.9
32.5°	1407.0	1243.2	875.6	570.1	411.0	347.3	325.2	317.5	313.3	310.9	310.9
35°	1496.3	1292.0	837.5	512.9	371.7	324.0	311.5	308.6	305.0	303.8	305.0
37.5°	1625.0	1370.0	803.0	462.8	343.7	306.2	296.6	297.8	294.9	296.6	298.4
40°	1788.2	1474.3	773.8	421.7	322.9	293.1	283.5	287.7	285.9	287.7	290.7
42.5°	1994.9	1603.5	751.7	389.6	308.0	282.3	273.4	277.6	276.4	278.8	281.8
45°	2225.4	1773.9	741.6	366.9	297.2	274.6	265.1	268.1	266.9	268.6	271.6
47.5°	2446.4	1928.8	750.5	353.8	288.3	268.1	257.9	259.1	258.5	257.9	259.7
50°	2637.0	2052.1	776.2	349.7	282.3	261.5	252.0	252.6	250.8	247.2	248.4
52.5°	2792.5	2151.0	791.6	349.7	279.4	254.4	245.4	246.0	242.4	237.7	238.3
55°	2895.0	2190.9	779.1	349.1	278.2	248.4	238.9	239.5	235.9	229.9	230.5
57.5°	2924.1	2152.2	726.7	342.5	277.0	243.6	232.3	233.5	231.1	224.6	224.6
60°	2842.5	2010.4	630.8	327.6	274.0	240.7	227.5	229.3	228.1	221.6	221.6
62.5°	2628.7	1758.4	516.4	305.0	265.7	237.1	223.4	226.9	229.9	226.4	225.8
65°	2228.4	1408.8	419.9	280.0	254.9	231.1	217.4	226.4	232.9	237.7	237.7
67.5°	1672.0	1008.5	342.5	253.8	238.9	219.2	209.7	218.0	222.8	225.8	227.5
70°	1019.2	593.3	269.8	223.4	215.6	201.3	194.2	185.8	179.3	178.1	178.7
72.5°	498.6	339.5	219.2	190.0	184.1	171.0	154.9	151.3	148.3	146.5	145.9
75°	274.6	236.5	181.1	157.9	147.1	131.0	127.5	121.5	120.3	117.9	118.5
77.5°	194.2	186.4	149.5	128.1	112.0	103.6	105.4	101.3	101.3	99.5	98.9
80°	145.9	146.5	115.0	93.5	82.8	79.8	81.6	81.6	80.4	79.8	79.2
82.5°	92.3	104.2	77.4	60.2	59.0	59.6	59.0	58.4	59.6	57.8	57.2
85°	63.7	75.1	47.1	35.7	35.7	35.1	36.3	35.7	36.9	35.1	35.1
87.5°	14.3	33.4	17.3	10.7	11.3	10.7	11.3	11.9	13.1	13.7	13.7
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)