

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: P632831

Luminaire Tested: GWS-SA2D-740-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-740-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7210.1 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

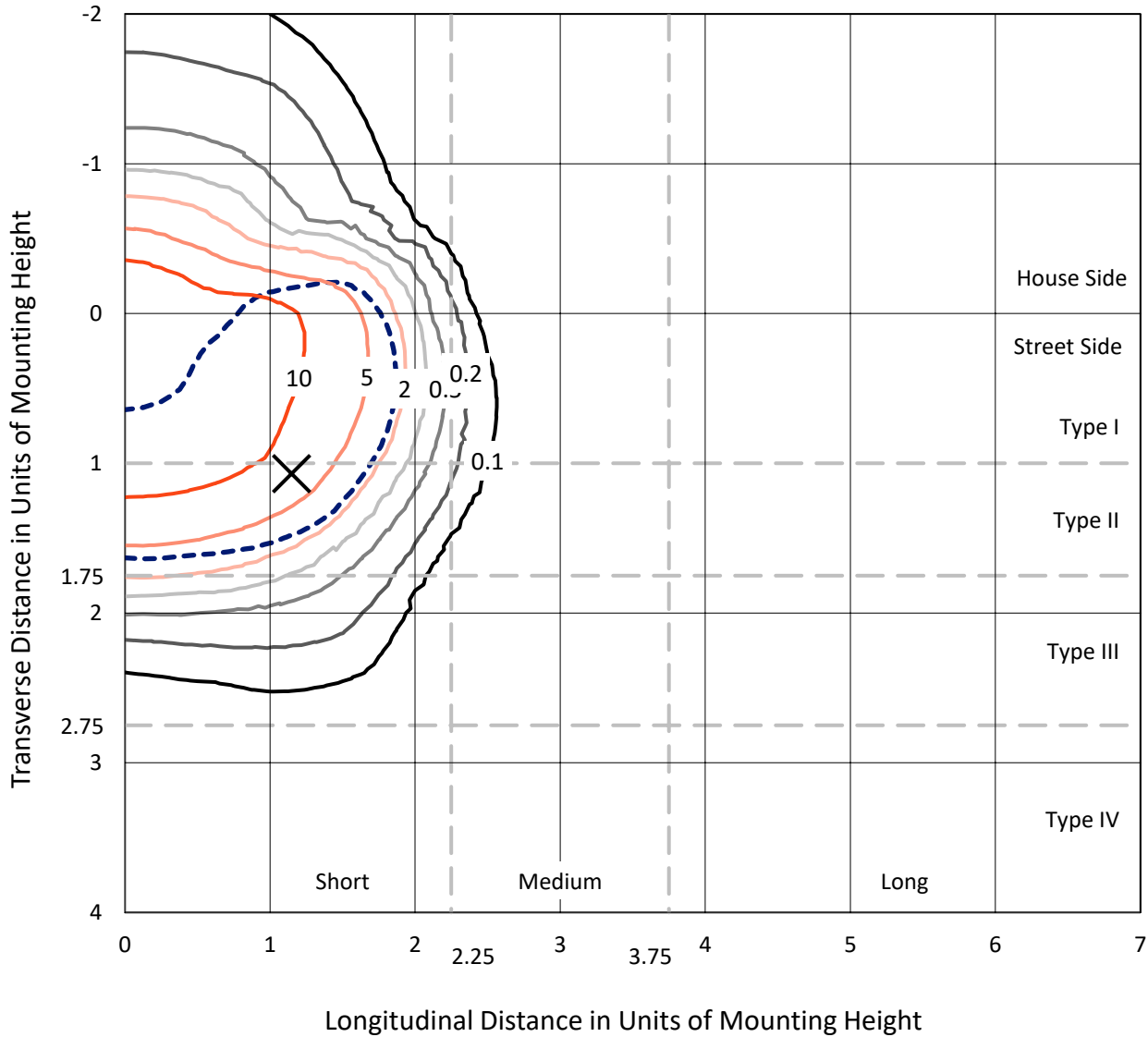
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

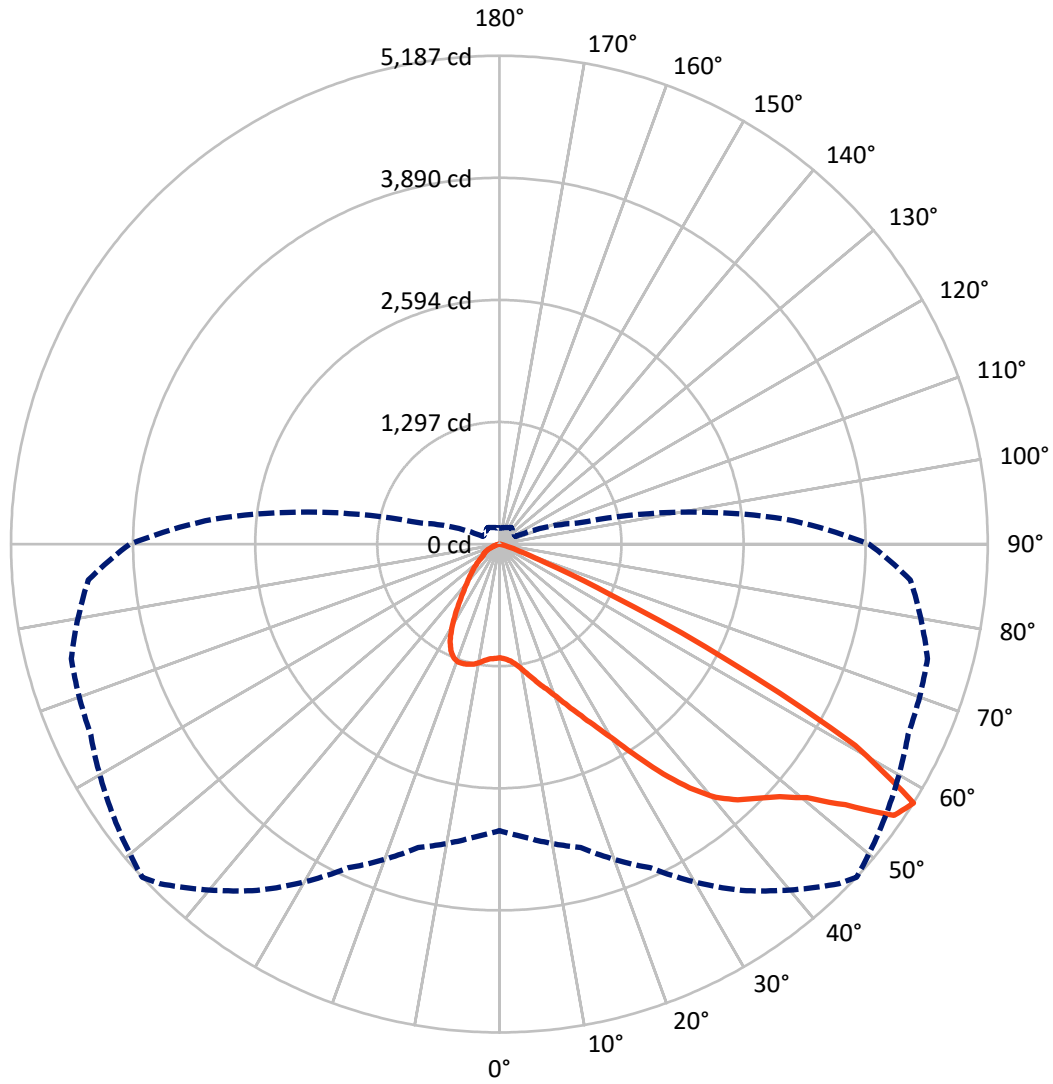
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1564.2	0.0	1564.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	5645.9	0.0	5645.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	7210.1	0.0	7210.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	1.7
10°-20°	405.2	5.6
20°-30°	752.3	10.4
30°-40°	1204.3	16.7
40°-50°	1760.4	24.4
50°-60°	2172.7	30.1
60°-70°	726.0	10.1
70°-80°	67.7	0.9
80°-90°	1.4	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°	7210.1	100.0
0°-180°	7210.1	100.0

Coefficient of Utilization



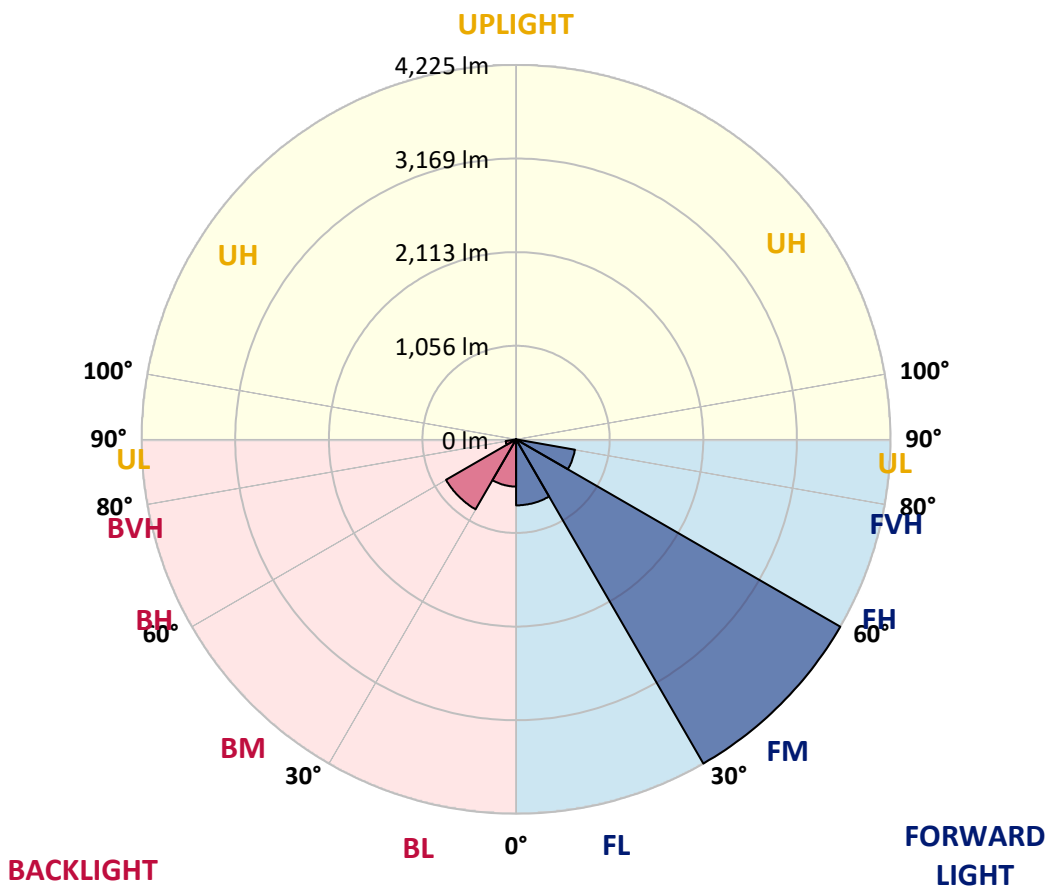
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	745.1	10.3			
FM (30°-60°)	4225.1	58.6			
FH (60°-80°)	674.7	9.4			G1/1800
FVH (80°-90°)	1.0	0.0			G0/10
BL (0°-30°)	532.4	7.4	B2/1000		
BM (30°-60°)	912.4	12.7	B1/1000		
BH (60°-80°)	118.9	1.6	B1/500		G1/500
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1207.0	1207.0	1207.0	1207.0	1207.0	1207.0	1207.0	1207.0	1207.0	1207.0	1207.0
2.5°	1219.5	1218.7	1217.9	1222.9	1221.2	1220.4	1222.0	1222.0	1222.0	1217.0	1207.0
5°	1248.8	1248.8	1248.0	1253.0	1248.8	1246.3	1247.2	1247.2	1243.8	1234.6	1222.0
7.5°	1294.9	1293.2	1291.5	1296.5	1292.4	1291.5	1293.2	1288.2	1282.3	1267.2	1249.7
10°	1361.0	1361.0	1358.5	1363.5	1360.2	1358.5	1358.5	1355.1	1344.2	1320.8	1294.9
12.5°	1452.2	1448.0	1442.2	1438.0	1436.3	1435.5	1436.3	1431.3	1419.6	1389.4	1353.5
15°	1551.8	1548.5	1539.3	1532.6	1523.4	1521.7	1526.7	1522.5	1510.8	1469.8	1418.7
17.5°	1677.4	1681.6	1658.1	1643.9	1617.1	1615.4	1617.1	1623.8	1615.4	1562.7	1488.2
20°	1784.5	1787.9	1770.3	1760.2	1736.0	1725.1	1728.4	1739.3	1730.1	1668.2	1564.4
22.5°	1899.2	1903.4	1885.0	1864.0	1853.2	1853.2	1865.7	1880.8	1868.2	1787.0	1651.4
25°	2036.5	2039.8	2024.7	1997.1	1977.9	2002.1	2020.6	2060.7	2039.8	1929.3	1754.4
27.5°	2193.8	2194.7	2172.9	2144.4	2134.4	2179.6	2198.0	2259.9	2251.6	2089.2	1863.2
30°	2362.1	2362.9	2357.9	2338.6	2329.4	2388.8	2414.0	2503.5	2497.7	2287.6	2011.4
32.5°	2537.0	2537.0	2546.2	2544.5	2555.4	2652.5	2692.7	2794.8	2788.9	2530.3	2195.5
35°	2712.8	2713.6	2729.5	2769.7	2814.9	2943.8	2996.5	3120.4	3107.0	2820.7	2430.7
37.5°	2912.8	2904.4	2926.2	2986.5	3086.9	3235.9	3286.1	3404.1	3389.1	3117.9	2737.9
40°	3153.9	3138.8	3138.8	3209.1	3323.0	3494.5	3537.2	3595.8	3544.8	3358.1	3039.2
42.5°	3420.1	3405.8	3387.4	3449.3	3544.8	3678.7	3713.8	3697.9	3656.1	3584.9	3382.4
45°	3689.6	3667.8	3680.4	3718.0	3773.3	3836.9	3850.3	3776.6	3757.4	3777.5	3666.1
47.5°	3894.6	3879.6	3910.5	3963.3	4008.5	4017.7	4008.5	3906.4	3904.7	3975.8	3862.8
50°	3963.3	3964.9	4050.3	4165.8	4238.7	4246.2	4233.6	4116.4	4100.5	4121.5	3969.1
52.5°	3970.0	3976.7	4101.4	4321.5	4519.9	4610.3	4600.2	4473.9	4318.2	4295.6	4129.8
55°	3808.4	3847.8	4021.9	4343.3	4765.1	5053.9	5087.4	4845.5	4614.5	4595.2	4475.5
57.5°	3044.2	3124.6	3334.7	3792.5	4491.4	5099.9	5187.0	5012.9	4789.4	4707.4	4382.6
60°	1819.7	1919.3	2121.0	2682.6	3418.4	4191.8	4341.6	4365.9	4262.9	4026.1	3362.3
62.5°	780.9	772.6	1021.2	1451.4	2033.1	2664.2	2732.0	2837.5	2927.0	2679.3	2040.6
65°	267.8	291.3	405.1	654.5	1017.8	1237.1	1297.4	1392.0	1519.2	1253.9	747.5
67.5°	165.7	175.8	233.5	386.7	549.1	540.7	513.9	498.9	485.5	332.3	205.1
70°	120.5	128.9	164.1	266.2	369.1	259.5	225.2	182.5	202.6	186.7	145.6
72.5°	81.2	87.9	113.0	161.5	189.2	126.4	117.2	133.1	160.7	153.2	118.9
75°	48.5	52.7	64.5	78.7	77.0	65.3	66.1	93.7	123.0	114.7	84.5
77.5°	33.5	35.2	42.7	51.1	37.7	20.1	18.4	25.9	41.9	41.9	28.5
80°	8.4	10.9	10.9	6.7	5.9	5.0	5.0	7.5	11.7	8.4	4.2
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7
85°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7
87.5°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7
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°	1207.0	1207.0	1207.0	1207.0	1207.0	1207.0	1207.0	1207.0	1207.0	1207.0	1207.0
2.5°	1212.8	1202.8	1209.5	1207.8	1212.8	1214.5	1207.0	1205.3	1206.1	1196.1	1192.7
5°	1224.6	1212.8	1216.2	1212.8	1218.7	1223.7	1221.2	1224.6	1228.7	1221.2	1217.9
7.5°	1249.7	1237.9	1237.1	1232.1	1240.5	1243.8	1243.0	1252.2	1260.5	1255.5	1250.5
10°	1293.2	1277.3	1275.6	1271.4	1273.9	1276.5	1267.2	1268.9	1276.5	1270.6	1268.1
12.5°	1346.8	1327.5	1323.3	1313.3	1313.3	1300.7	1280.6	1276.5	1282.3	1278.1	1273.9
15°	1404.5	1378.6	1371.9	1354.3	1337.6	1314.1	1293.2	1288.2	1292.4	1287.3	1284.0
17.5°	1469.0	1439.7	1417.9	1386.9	1350.1	1322.5	1299.1	1288.2	1281.5	1271.4	1270.6
20°	1532.6	1494.1	1457.2	1407.9	1359.3	1317.5	1279.0	1250.5	1226.2	1211.2	1205.3
22.5°	1606.2	1549.3	1489.9	1420.4	1350.9	1287.3	1219.5	1171.0	1129.1	1114.9	1108.2
25°	1684.9	1611.3	1522.5	1432.1	1322.5	1220.4	1128.3	1056.3	1001.1	982.7	975.1
27.5°	1772.0	1670.7	1556.0	1429.6	1263.9	1125.0	1002.7	913.2	858.8	842.0	847.9
30°	1882.5	1747.7	1597.9	1403.7	1176.0	991.0	847.9	772.6	731.6	715.6	716.5
32.5°	2029.8	1858.2	1659.0	1348.4	1063.0	838.7	713.1	657.9	630.3	609.3	607.7
35°	2240.7	2026.4	1715.9	1259.7	925.7	703.1	611.9	568.3	529.8	505.6	509.7
37.5°	2493.5	2238.2	1746.9	1140.0	771.7	597.6	535.7	491.3	447.8	411.8	416.0
40°	2793.1	2515.2	1744.3	982.7	631.1	525.6	472.1	420.2	365.8	333.1	336.5
42.5°	3127.1	2777.2	1689.9	816.1	523.1	467.1	411.0	345.7	293.0	272.9	273.7
45°	3416.7	2989.8	1594.5	643.7	440.3	410.1	347.4	280.4	257.0	242.7	241.9
47.5°	3631.0	3145.5	1458.1	506.4	373.3	358.2	285.4	251.1	232.7	221.0	219.3
50°	3750.7	3199.9	1307.4	396.7	315.6	303.8	255.3	227.7	215.1	207.6	205.9
52.5°	3911.4	3265.2	1199.4	313.0	264.5	248.6	235.2	211.8	203.4	197.5	195.0
55°	4165.8	3391.6	1105.7	248.6	220.1	216.8	221.8	202.6	197.5	188.3	185.0
57.5°	3926.4	3046.7	858.8	192.5	185.8	198.4	214.3	193.4	180.8	172.4	169.1
60°	2763.0	2025.6	431.9	154.8	165.7	185.8	201.7	174.9	162.4	164.1	162.4
62.5°	1523.4	1013.6	194.2	129.7	144.0	164.1	172.4	151.5	143.1	157.4	159.9
65°	498.0	344.9	112.2	100.4	113.8	133.9	149.0	144.0	142.3	159.0	164.1
67.5°	153.2	113.8	76.2	72.0	78.7	98.8	125.6	155.7	167.4	172.4	174.9
70°	114.7	89.6	65.3	61.1	64.5	75.3	106.3	129.7	122.2	123.0	121.4
72.5°	92.1	71.1	56.1	53.6	53.6	51.9	56.1	70.3	79.5	83.7	83.7
75°	64.5	50.2	42.7	39.3	31.0	25.1	22.6	22.6	20.1	19.3	18.4
77.5°	21.8	18.4	16.7	13.4	9.2	7.5	6.7	5.9	4.2	2.5	1.7
80°	3.3	2.5	1.7	1.7	1.7	0.8	0.8	0.8	0.0	0.0	0.0
82.5°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.0	0.0	0.0	0.0
85°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.0	0.0	0.0	0.0
87.5°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	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)