

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: P641682

Luminaire Tested: GWS-SA6B-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6B-735-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13998.4 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

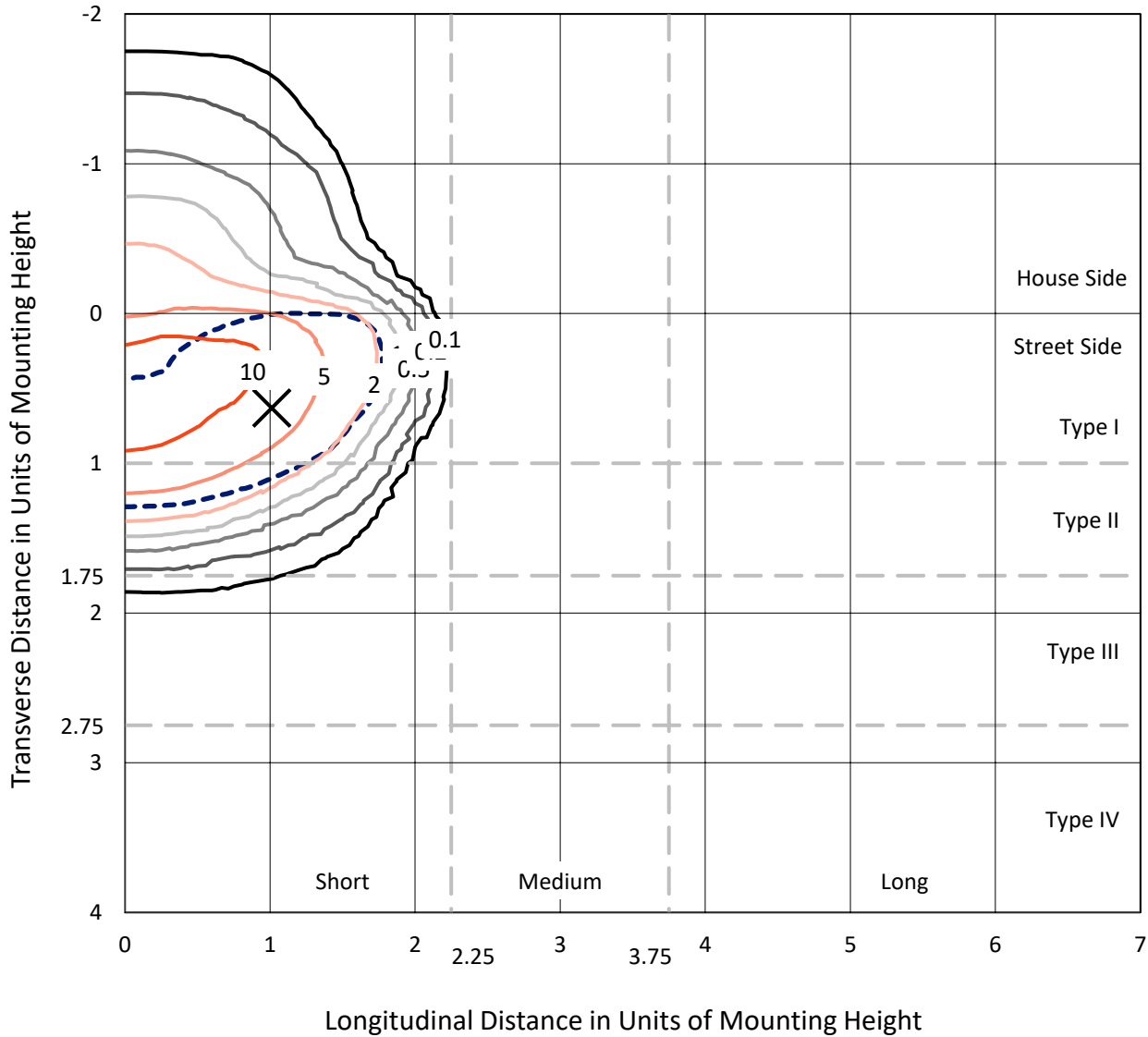
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

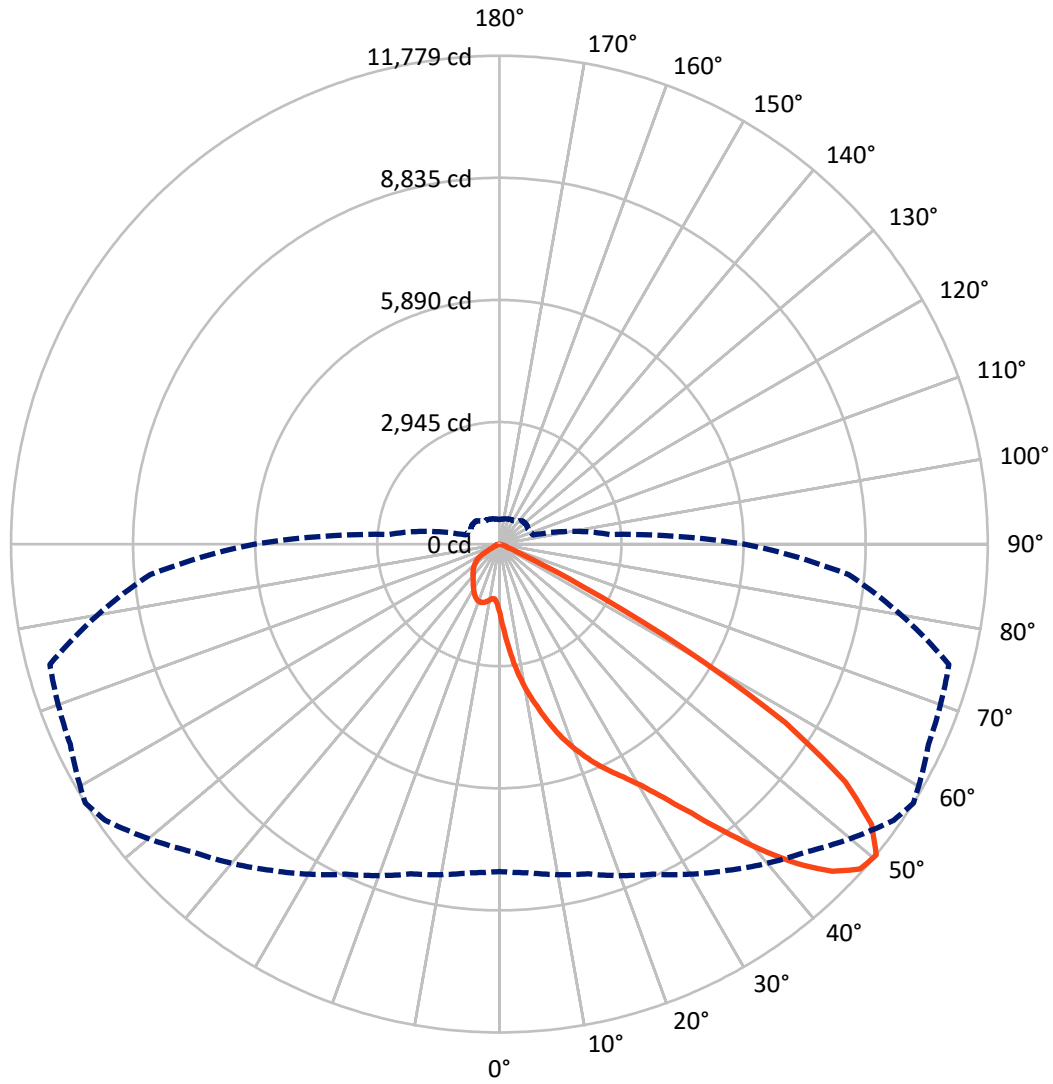
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1960.7	0.0	1960.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12037.7	0.0	12037.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	13998.4	0.0	13998.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.1	1.5
10°-20°	820.0	5.9
20°-30°	1659.4	11.9
30°-40°	2935.6	21.0
40°-50°	4279.5	30.6
50°-60°	3430.1	24.5
60°-70°	618.0	4.4
70°-80°	48.7	0.3
80°-90°	0.0	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°	13998.4	100.0
0°-180°	13998.4	100.0

Coefficient of Utilization

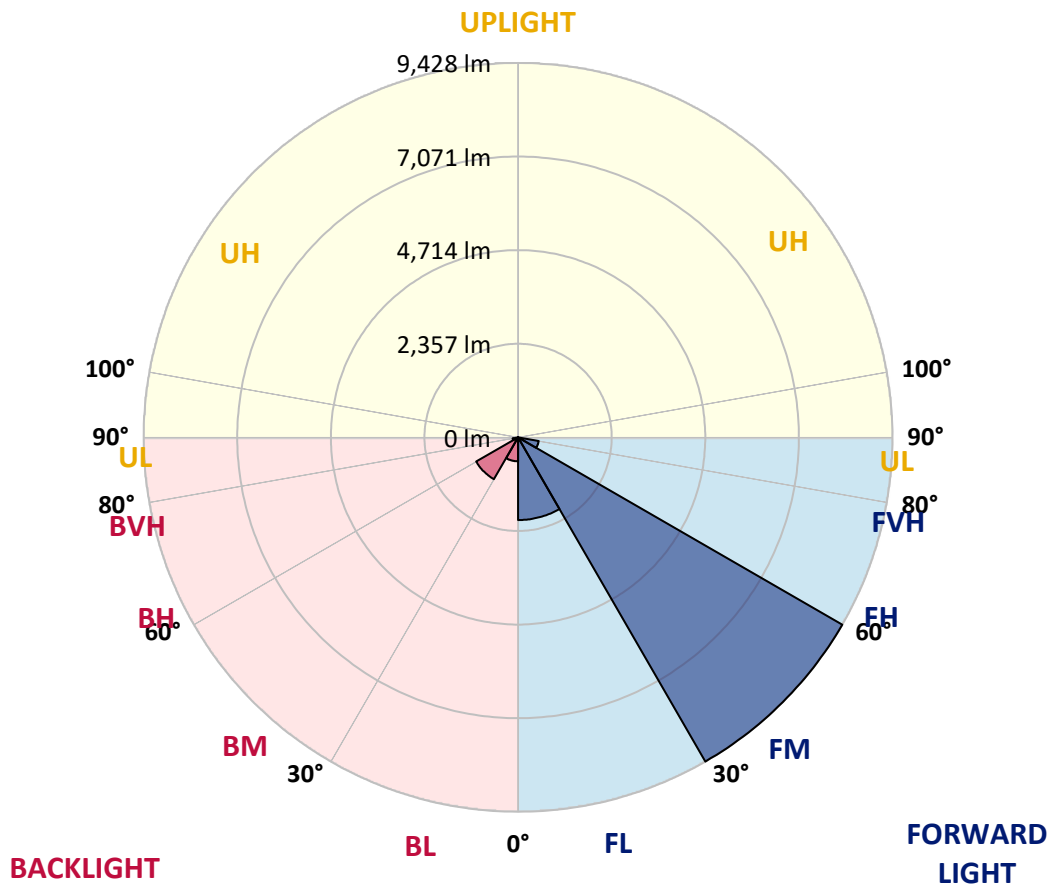


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2082.9	14.9			
FM (30°-60°)	9427.5	67.3			
FH (60°-80°)	527.3	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	603.6	4.3	B2/1000		
BM (30°-60°)	1217.7	8.7	B2/2500		
BH (60°-80°)	139.4	1.0	B1/500		G1/500
BVH (80°-90°)	0.0	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°	55°	58°	65°	75°	85°
0°	1672.1	1672.1	1672.1	1672.1	1672.1	1672.1	1672.1	1672.1	1672.1	1672.1	1672.1
2.5°	2474.4	2435.5	2413.1	2395.1	2315.8	2190.0	2107.7	2064.3	1992.4	1871.2	1766.4
5°	3228.9	3200.5	3148.1	3112.1	3010.4	2832.2	2648.1	2574.7	2411.6	2137.6	1892.1
7.5°	3728.9	3707.9	3688.5	3640.6	3544.8	3383.1	3179.5	3103.2	2851.7	2462.5	2059.8
10°	4113.6	4097.1	4074.7	4073.2	3998.3	3853.1	3654.0	3574.7	3302.3	2815.7	2257.4
12.5°	4451.9	4438.4	4433.9	4475.9	4428.0	4320.2	4104.6	4005.8	3716.9	3176.5	2475.9
15°	4683.9	4680.9	4700.4	4782.7	4809.7	4760.3	4579.1	4472.9	4140.5	3538.8	2717.0
17.5°	4790.2	4799.2	4836.6	4978.8	5098.6	5140.5	5001.3	4911.5	4561.2	3905.5	2974.4
20°	4971.3	4968.4	4990.8	5125.5	5272.2	5421.9	5380.0	5303.7	4986.3	4293.2	3260.3
22.5°	5481.8	5438.4	5390.5	5411.4	5463.8	5639.0	5716.8	5677.9	5424.9	4691.4	3555.2
25°	6266.2	6221.3	6067.1	5917.4	5818.6	5898.0	6004.2	6023.7	5860.5	5100.1	3863.6
27.5°	7098.5	7058.1	6884.4	6659.9	6377.0	6239.3	6318.6	6357.5	6288.7	5586.6	4191.4
30°	7878.4	7824.5	7634.4	7356.0	7028.1	6817.1	6727.3	6754.2	6794.6	6162.9	4576.2
32.5°	8555.0	8514.6	8287.1	7993.7	7677.8	7457.8	7248.2	7293.1	7391.9	6868.0	5068.6
35°	9128.4	9107.4	8866.4	8574.5	8240.7	8128.4	7948.8	7957.7	8056.5	7719.7	5668.9
37.5°	9626.8	9590.9	9372.4	9101.4	8836.5	8818.5	8769.1	8773.6	8824.5	8712.2	6359.0
40°	9941.2	9908.3	9752.6	9584.9	9396.3	9399.3	9655.3	9674.7	9616.4	9686.7	7088.0
42.5°	10059.5	10035.5	9951.7	9953.2	9933.7	10022.0	10502.5	10538.5	10328.9	10451.7	7710.8
45°	9854.4	9843.9	9849.9	10065.4	10299.0	10571.4	11195.6	11258.5	10962.1	10959.1	8197.3
47.5°	9192.7	9171.8	9346.9	9713.7	10254.1	10784.0	11614.8	11712.1	11405.2	11249.5	8502.6
50°	7896.4	7956.2	8233.2	8784.1	9605.9	10492.1	11610.3	11779.4	11421.7	11224.1	8451.7
52.5°	5719.8	5707.8	6314.1	7071.6	8071.5	9558.0	10993.5	11240.5	11022.0	10974.1	8338.0
55°	3112.1	3221.4	3630.1	4633.0	5881.5	7790.1	9584.9	10123.8	10376.8	10882.8	8543.1
57.5°	1143.7	1191.6	1447.5	2157.1	3113.6	4844.1	7321.5	8134.4	8915.8	10628.3	8508.6
60°	461.1	470.0	571.8	793.4	1308.3	2465.5	4392.0	5113.6	5850.1	8135.9	6529.7
62.5°	335.3	347.3	387.7	464.1	661.6	1077.8	1893.6	2202.0	2407.1	4029.8	3216.9
65°	270.9	279.9	312.9	347.3	437.1	579.3	610.8	588.3	585.3	1041.9	738.0
67.5°	224.5	233.5	257.5	281.4	314.4	288.9	209.6	220.1	179.6	178.1	145.2
70°	164.7	175.1	199.1	224.5	188.6	77.8	121.3	179.6	136.2	113.8	110.8
72.5°	124.2	131.7	154.2	146.7	55.4	29.9	80.8	130.2	104.8	83.8	82.3
75°	92.8	97.3	77.8	24.0	6.0	7.5	29.9	53.9	58.4	47.9	47.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	4.5	6.0	7.5	9.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1672.1	1672.1	1672.1	1672.1	1672.1	1672.1	1672.1	1672.1	1672.1	1672.1	1672.1
2.5°	1706.5	1643.6	1553.8	1479.0	1422.1	1366.7	1324.8	1282.9	1281.4	1260.4	1255.9
5°	1778.4	1664.6	1499.9	1381.7	1309.8	1266.4	1236.5	1221.5	1214.0	1206.5	1203.5
7.5°	1881.7	1718.5	1491.0	1365.2	1305.3	1276.9	1255.9	1247.0	1242.5	1236.5	1235.0
10°	2008.9	1796.3	1523.9	1396.6	1344.3	1317.3	1294.9	1281.4	1273.9	1263.4	1260.4
12.5°	2161.6	1892.1	1576.3	1449.0	1393.7	1357.7	1327.8	1308.3	1297.8	1284.4	1281.4
15°	2326.2	1995.4	1634.7	1496.9	1431.1	1384.7	1347.2	1317.3	1297.8	1281.4	1276.9
17.5°	2496.9	2100.2	1687.1	1529.9	1449.0	1393.7	1339.8	1299.3	1275.4	1254.4	1248.5
20°	2688.5	2208.0	1721.5	1535.9	1443.1	1369.7	1306.8	1255.9	1232.0	1203.5	1197.6
22.5°	2889.1	2308.3	1736.5	1522.4	1410.1	1324.8	1257.4	1205.0	1170.6	1140.7	1131.7
25°	3083.7	2398.1	1729.0	1485.0	1360.7	1261.9	1193.1	1139.2	1101.7	1071.8	1064.3
27.5°	3290.3	2472.9	1702.0	1429.6	1293.4	1193.1	1127.2	1080.8	1046.4	1013.4	1005.9
30°	3522.3	2541.8	1658.6	1362.2	1214.0	1122.7	1071.8	1040.4	1003.0	968.5	958.0
32.5°	3802.2	2603.2	1595.7	1281.4	1143.7	1061.3	1032.9	1008.9	965.5	929.6	922.1
35°	4122.6	2654.1	1516.4	1197.6	1074.8	1022.4	1016.4	985.0	928.1	886.2	877.2
37.5°	4493.8	2703.5	1422.1	1115.2	1023.9	1004.4	1005.9	952.1	883.2	832.3	826.3
40°	4893.5	2752.9	1317.3	1043.4	977.5	994.0	980.5	904.2	791.9	742.5	736.5
42.5°	5309.7	2806.8	1211.0	976.0	938.6	953.6	934.1	808.3	727.5	702.1	699.1
45°	5685.4	2871.1	1095.8	908.6	899.7	895.2	862.2	732.0	697.6	679.6	678.1
47.5°	5956.3	2860.7	973.0	844.3	857.7	842.8	742.5	696.1	667.6	643.7	637.7
50°	5906.9	2678.0	845.8	772.4	803.9	790.4	667.6	654.2	628.7	603.3	594.3
52.5°	5781.2	2429.5	735.0	696.1	745.5	714.0	616.7	603.3	580.8	547.9	537.4
55°	5848.6	2196.0	648.2	634.7	685.6	591.3	559.9	538.9	514.9	479.0	474.5
57.5°	5631.5	1791.8	520.9	529.9	606.3	504.5	491.0	458.1	417.6	393.7	390.7
60°	3898.0	962.5	326.3	336.8	438.6	423.6	440.1	410.2	360.8	338.3	333.8
62.5°	1790.3	386.2	178.1	170.7	230.5	287.4	377.2	374.2	312.9	276.9	273.9
65°	434.1	176.6	127.2	119.8	130.2	172.1	245.5	294.9	253.0	211.1	206.6
67.5°	140.7	143.7	116.8	109.3	115.3	128.7	146.7	163.2	161.7	148.2	145.2
70°	112.3	130.2	107.8	98.8	98.8	103.3	98.8	79.3	68.9	74.8	77.8
72.5°	83.8	98.8	85.3	76.3	73.4	71.9	61.4	44.9	31.4	28.4	26.9
75°	49.4	55.4	52.4	44.9	41.9	37.4	29.9	19.5	10.5	7.5	4.5
77.5°	9.0	10.5	12.0	9.0	7.5	6.0	4.5	1.5	0.0	0.0	0.0
80°	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)