

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: P643423

Luminaire Tested: GWS-SA6E-830-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-830-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20799.1 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

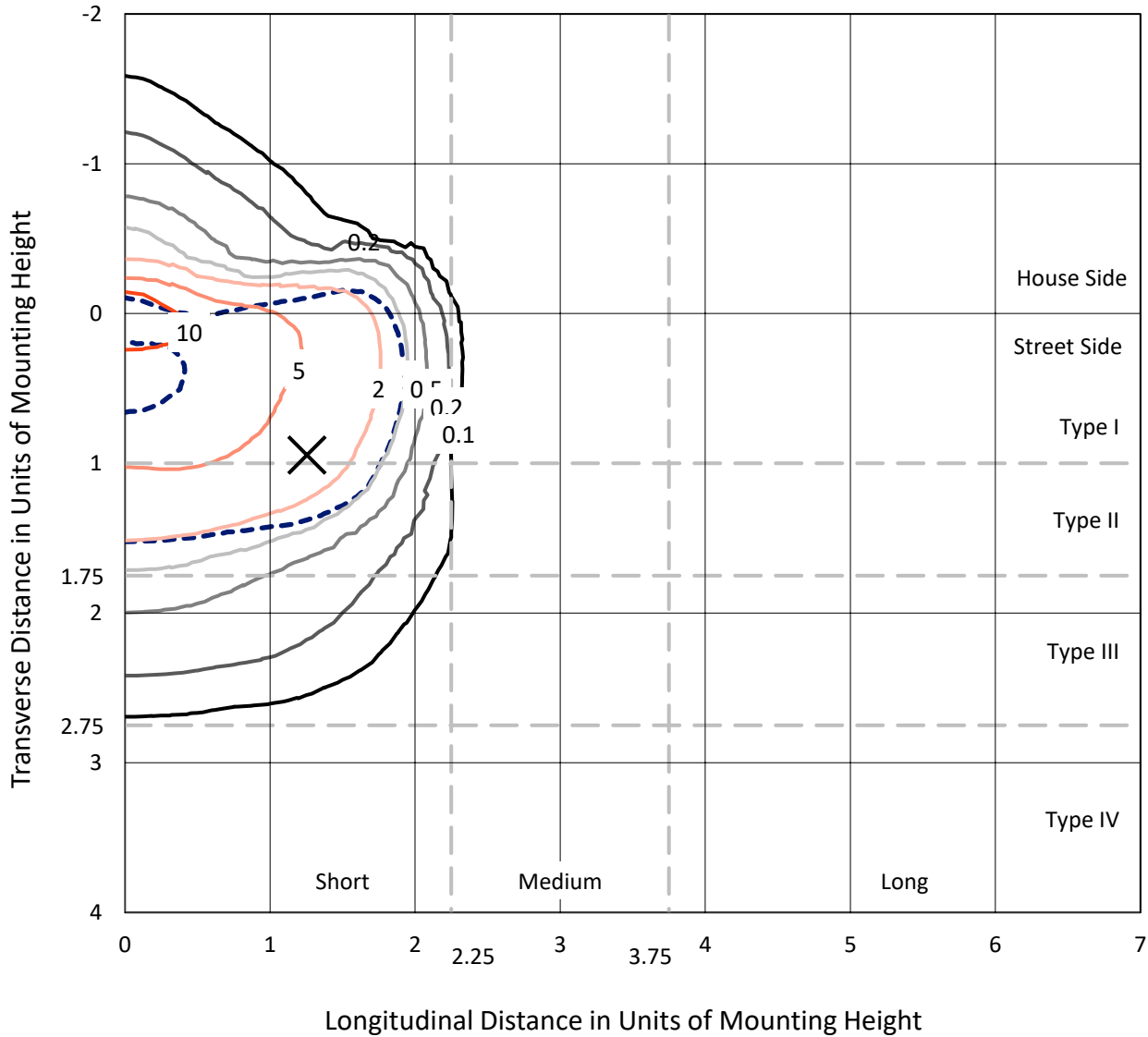
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

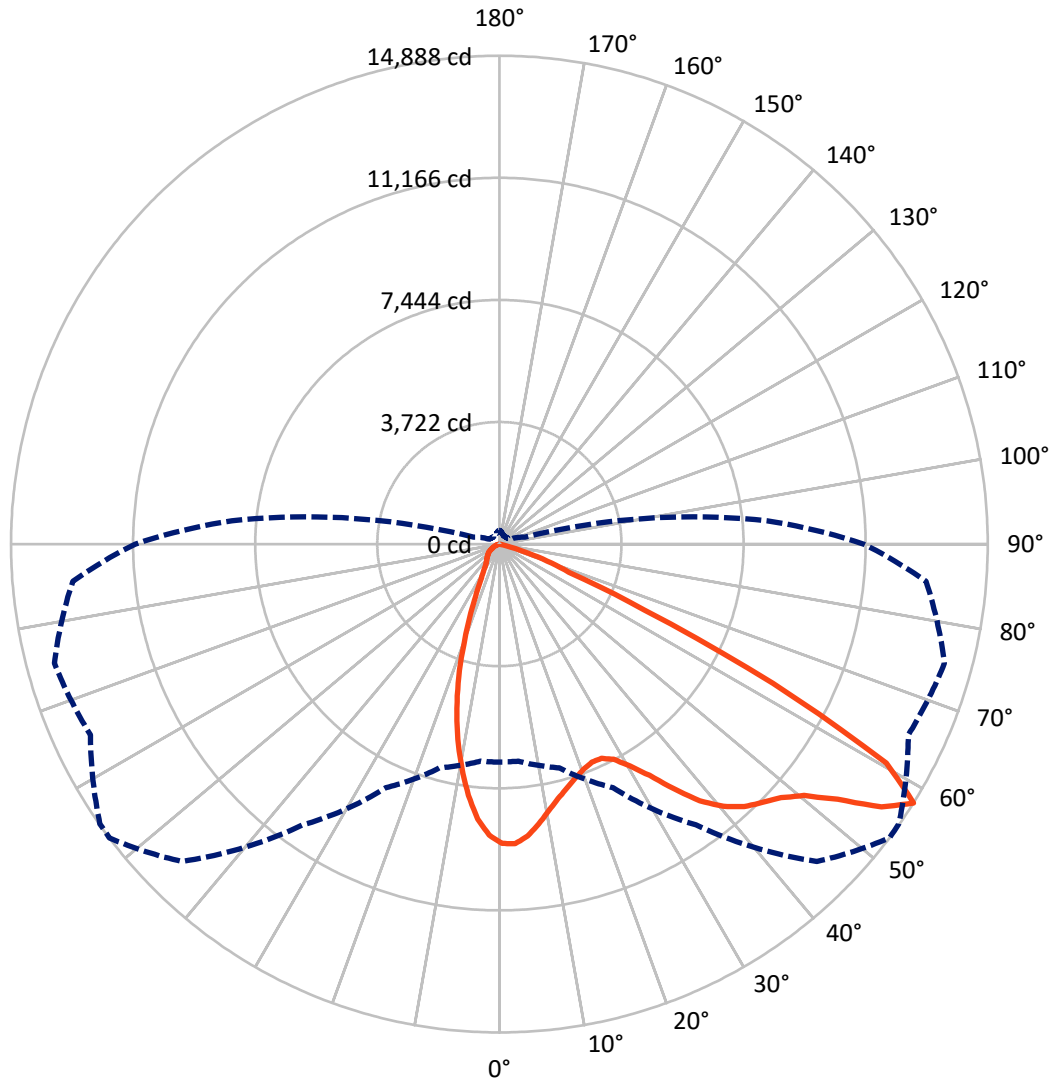
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3435.7	0.0	3435.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	17363.4	0.0	17363.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	20799.1	0.0	20799.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	780.6	3.8
10°-20°	1713.7	8.2
20°-30°	2232.5	10.7
30°-40°	3238.3	15.6
40°-50°	4672.6	22.5
50°-60°	5651.1	27.2
60°-70°	2303.2	11.1
70°-80°	206.9	1.0
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°	20799.1	100.0
0°-180°	20799.1	100.0

Coefficient of Utilization



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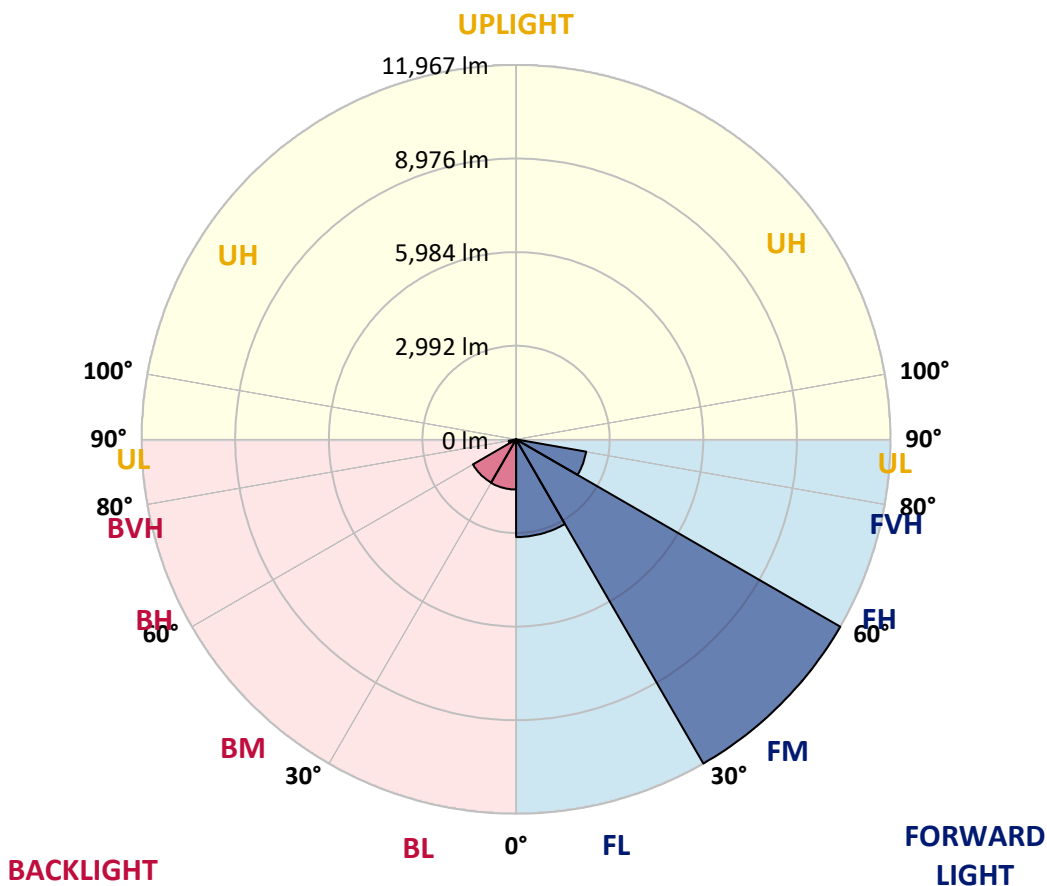
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3123.3	15.0			
FM (30°-60°)	11967.4	57.5			
FH (60°-80°)	2272.6	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1603.5	7.7	B3/2500		
BM (30°-60°)	1594.7	7.7	B2/2500		
BH (60°-80°)	237.5	1.1	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: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	9123.7	9123.7	9123.7	9123.7	9123.7	9123.7	9123.7	9123.7	9123.7	9123.7	9123.7
2.5°	8996.2	9016.6	9052.3	9098.2	9128.8	9144.1	9144.1	9187.4	9159.4	9136.4	9110.9
5°	8611.3	8631.7	8680.1	8754.0	8828.0	8881.5	8942.7	8988.6	9006.4	9006.4	8963.1
7.5°	8068.3	8096.3	8126.9	8228.9	8389.5	8509.3	8613.8	8680.1	8777.0	8807.6	8746.4
10°	7484.5	7512.6	7581.4	7721.6	7905.1	8083.6	8262.0	8346.2	8511.9	8598.5	8529.7
12.5°	6990.0	7002.7	7094.5	7262.7	7497.3	7742.0	7958.7	8045.3	8279.9	8409.9	8328.3
15°	6582.1	6589.7	6681.5	6867.6	7137.8	7438.6	7711.4	7800.6	8088.7	8285.0	8162.6
17.5°	6273.6	6276.2	6355.2	6556.6	6839.6	7173.5	7497.3	7606.9	7979.1	8216.1	8032.6
20°	6118.1	6110.5	6166.6	6342.5	6610.1	6944.1	7326.5	7461.6	7917.9	8206.0	7933.2
22.5°	6120.7	6102.8	6125.8	6250.7	6477.6	6791.1	7219.4	7372.4	7923.0	8249.3	7849.1
25°	6266.0	6240.5	6245.6	6311.9	6472.5	6758.0	7234.7	7397.8	8025.0	8394.6	7818.5
27.5°	6510.7	6482.7	6482.7	6515.8	6602.5	6862.5	7425.9	7612.0	8297.7	8677.6	7882.2
30°	6826.8	6798.8	6788.6	6821.7	6893.1	7132.7	7851.6	8045.3	8764.2	9141.5	8086.1
32.5°	7188.8	7155.7	7173.5	7219.4	7288.2	7619.6	8399.7	8657.2	9348.0	9766.1	8453.2
35°	7571.2	7543.2	7624.7	7724.1	7831.2	8295.2	9156.8	9381.1	10064.3	10543.6	9014.1
37.5°	7935.7	7923.0	8093.8	8302.8	8524.6	9105.8	9926.7	10100.0	10678.7	11389.9	9699.8
40°	8300.3	8297.7	8590.9	8958.0	9312.3	9913.9	10510.4	10653.2	11053.4	12047.6	10357.5
42.5°	8708.1	8708.1	9113.5	9602.9	10074.5	10597.1	10938.7	11002.4	11221.7	12427.5	10852.0
45°	9098.2	9121.1	9590.2	10158.7	10716.9	11129.9	11234.4	11239.5	11290.5	12651.8	11262.5
47.5°	9406.6	9427.0	9987.9	10643.0	11244.6	11535.2	11550.5	11527.6	11471.5	12865.9	11578.6
50°	9656.5	9687.0	10273.4	10966.8	11606.6	11925.3	12042.5	12019.6	11876.8	13095.4	11800.4
52.5°	9778.8	9822.2	10372.8	11127.4	12009.4	12593.2	12919.5	12973.0	12483.5	13222.8	12011.9
55°	8799.9	8863.7	9370.9	10403.4	12233.7	13625.6	14138.0	14127.8	13141.2	13602.7	12526.9
57.5°	6645.8	6640.7	7061.3	8190.7	10449.3	13684.2	14887.5	14867.1	13755.6	14043.7	13054.6
60°	4524.9	4494.3	4606.4	5152.0	7306.1	11147.8	13549.1	13824.4	13319.7	12973.0	11084.0
62.5°	3724.4	3696.4	3660.7	3510.3	4196.0	6944.1	9360.7	9778.8	9712.5	9016.6	6951.7
65°	3048.9	3071.8	3171.2	3107.5	2918.9	3561.3	4858.8	5106.1	4667.6	3928.4	2429.4
67.5°	2248.4	2258.6	2388.6	2725.1	2623.2	2370.8	2286.7	2327.4	1363.8	627.1	405.3
70°	1328.1	1335.8	1455.6	1906.8	2128.6	1820.1	1544.8	1521.9	540.4	168.2	183.5
72.5°	752.0	736.7	759.7	907.5	1159.9	966.2	795.4	724.0	163.2	94.3	94.3
75°	356.9	346.7	298.3	280.4	254.9	163.2	102.0	86.7	40.8	38.2	38.2
77.5°	2.5	7.6	5.1	7.6	7.6	5.1	2.5	2.5	7.6	7.6	10.2
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°	9123.7	9123.7	9123.7	9123.7	9123.7	9123.7	9123.7	9123.7	9123.7	9123.7	9123.7
2.5°	9065.0	8988.6	8970.7	8965.6	8894.2	8817.8	8738.7	8708.1	8662.3	8634.2	8657.2
5°	8894.2	8784.6	8687.8	8598.5	8440.5	8267.1	8116.7	8019.9	7928.1	7866.9	7882.2
7.5°	8652.1	8509.3	8287.5	8060.6	7770.0	7510.0	7219.4	7041.0	6875.3	6783.5	6826.8
10°	8394.6	8206.0	7851.6	7466.7	7010.4	6602.5	6187.0	5847.9	5651.6	5465.5	5485.9
12.5°	8142.2	7892.4	7362.2	6778.4	6202.3	5600.6	4973.5	4504.5	4183.3	3951.3	3915.6
15°	7907.7	7586.5	6885.5	6115.6	5330.4	4530.0	3729.5	3059.1	2686.9	2457.5	2442.2
17.5°	7698.7	7301.0	6390.9	5422.2	4438.2	3413.4	2493.1	1990.9	1776.8	1677.4	1667.2
20°	7497.3	7012.9	5886.2	4718.6	3464.4	2396.3	1720.7	1488.7	1419.9	1379.1	1384.2
22.5°	7303.5	6699.4	5355.9	3938.6	2597.7	1682.5	1333.2	1244.0	1236.4	1241.5	1244.0
25°	7140.4	6411.3	4810.4	3186.5	1853.3	1282.3	1114.0	1088.5	1111.5	1144.6	1149.7
27.5°	7056.3	6176.8	4277.6	2429.4	1340.9	1042.6	966.2	976.4	1017.1	1052.8	1057.9
30°	7079.2	6000.9	3727.0	1761.5	1032.4	879.5	854.0	874.4	915.2	948.3	953.4
32.5°	7242.3	5911.6	3163.6	1282.3	848.9	767.3	757.1	772.4	808.1	833.6	836.1
35°	7566.1	5932.0	2628.2	981.5	729.1	683.2	680.6	690.8	708.7	726.5	729.1
37.5°	8042.8	6097.7	2100.6	815.8	660.2	627.1	616.9	616.9	629.7	637.3	642.4
40°	8555.2	6347.6	1682.5	721.4	611.8	576.1	555.7	548.1	558.3	568.5	571.0
42.5°	8978.4	6597.4	1366.4	655.2	573.6	525.1	499.6	494.5	507.3	525.1	530.2
45°	9302.1	6791.1	1139.5	601.6	530.2	476.7	448.7	448.7	471.6	502.2	507.3
47.5°	9597.8	6946.6	971.3	553.2	489.5	433.4	405.3	410.4	448.7	489.5	497.1
50°	9799.2	7071.5	846.3	509.8	456.3	397.7	372.2	382.4	428.3	476.7	484.4
52.5°	10015.9	7224.5	764.8	471.6	425.7	369.6	346.7	354.3	405.3	458.9	469.1
55°	10615.0	7736.9	762.2	420.6	372.2	331.4	321.2	323.8	374.7	435.9	448.7
57.5°	11104.4	8188.1	813.2	354.3	311.0	290.6	285.5	288.1	333.9	402.8	418.1
60°	9187.4	6362.9	673.0	293.2	260.0	254.9	247.3	252.4	295.7	356.9	369.6
62.5°	5437.5	3637.7	321.2	224.3	221.8	216.7	209.0	219.2	260.0	313.6	321.2
65°	1858.4	1078.3	203.9	183.5	188.6	181.0	173.3	183.5	219.2	249.8	252.4
67.5°	356.9	285.5	163.2	153.0	155.5	140.2	137.7	147.9	168.2	173.3	170.8
70°	186.1	165.7	124.9	124.9	119.8	99.4	99.4	109.6	109.6	102.0	99.4
72.5°	96.9	91.8	81.6	91.8	76.5	61.2	61.2	66.3	61.2	51.0	51.0
75°	38.2	38.2	35.7	45.9	33.1	28.0	25.5	30.6	22.9	17.8	17.8
77.5°	10.2	10.2	10.2	12.7	7.6	7.6	5.1	5.1	2.5	0.0	0.0
80°	0.0	2.5	0.0	2.5	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)