

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: P640178

Luminaire Tested: GWS-SA5D-735-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640178
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-SA5D-735-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17330 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

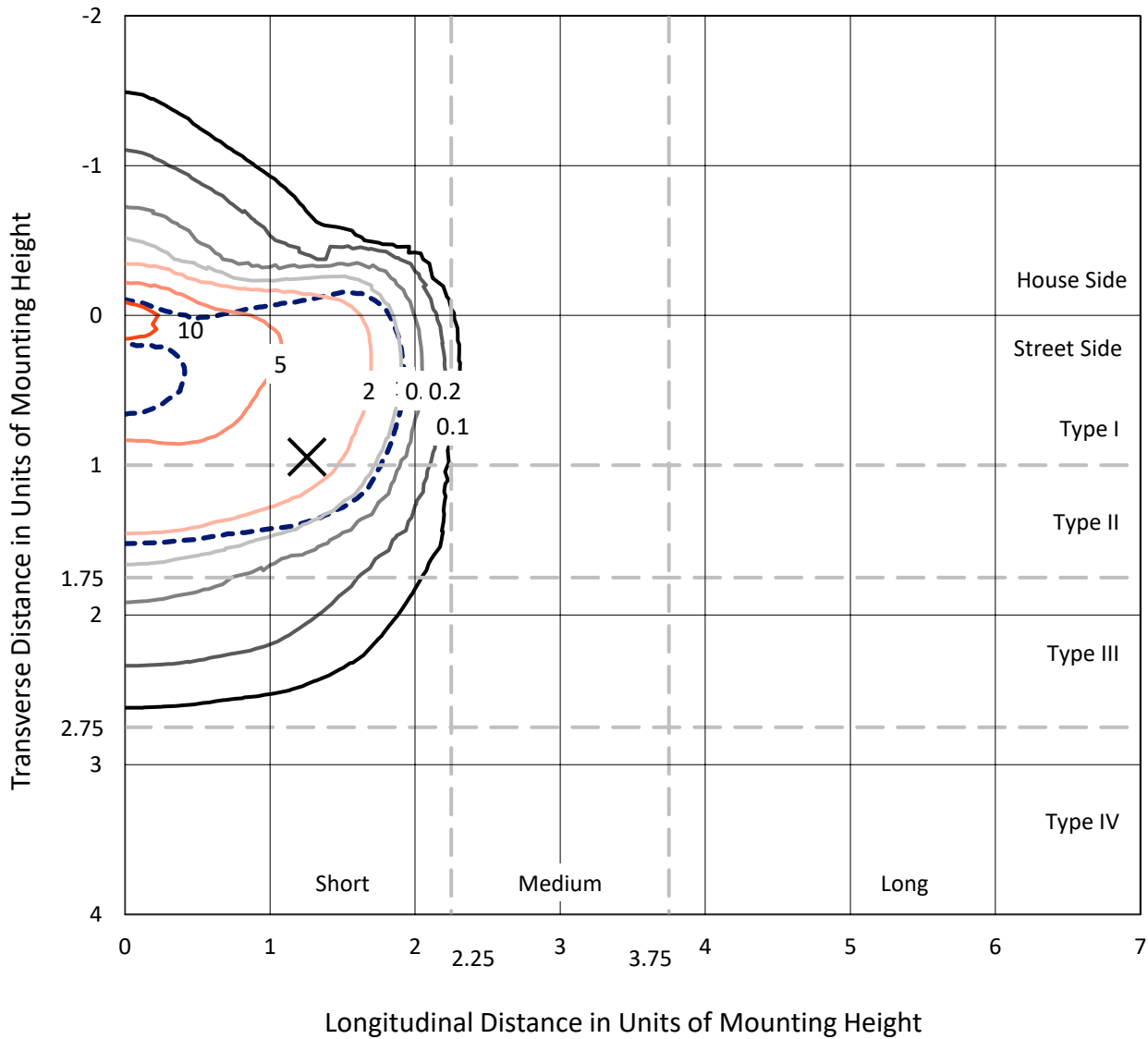
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640178
 CATALOG NUMBER: GWS-SA5D-735-U-SL3-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

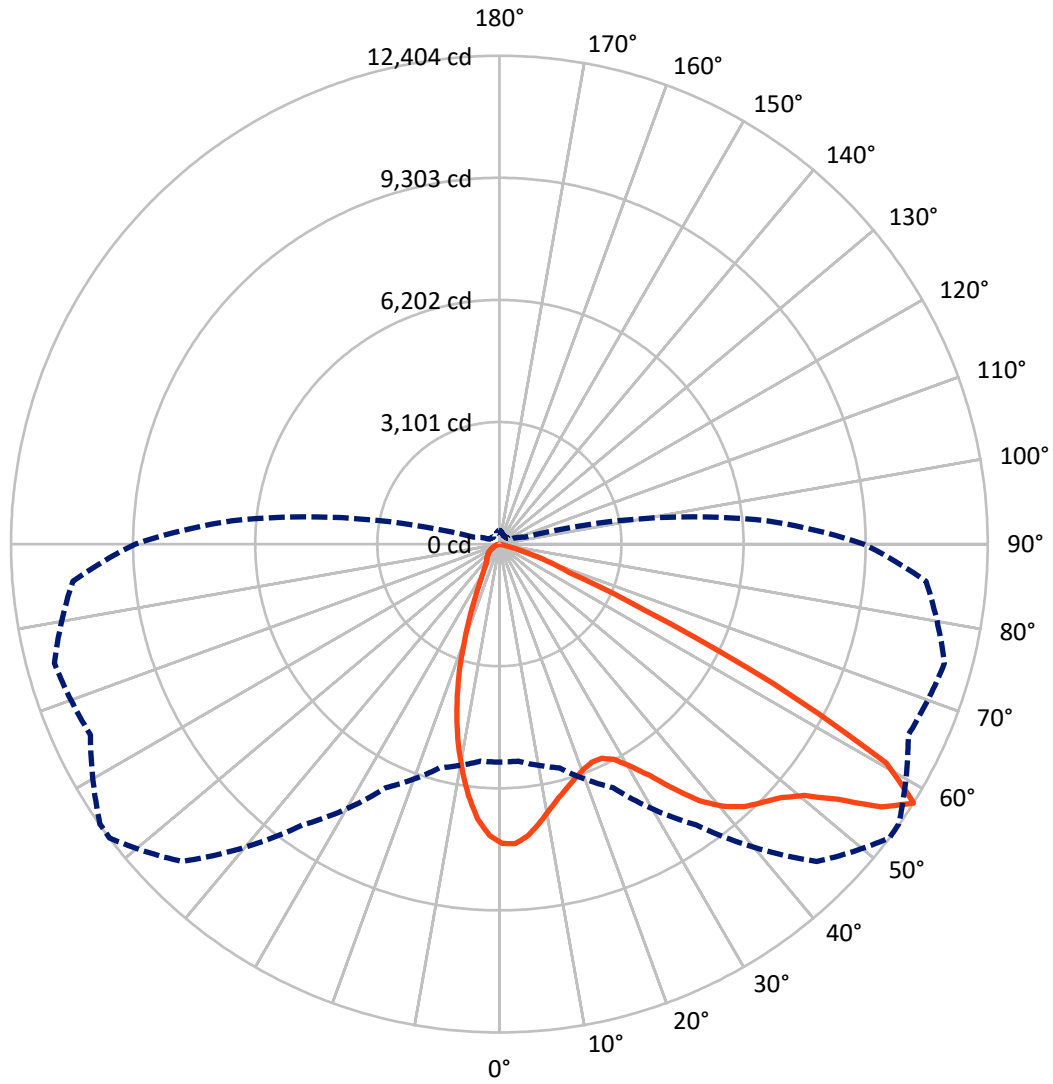
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

REPORT NUMBER: P640178
CATALOG NUMBER: GWS-SA5D-735-U-SL3-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P640178
 CATALOG NUMBER: GWS-SA5D-735-U-SL3-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2862.7	0.0	2862.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	14467.3	0.0	14467.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	17330.0	0.0	17330.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.4	3.8
10°-20°	1427.9	8.2
20°-30°	1860.2	10.7
30°-40°	2698.2	15.6
40°-50°	3893.3	22.5
50°-60°	4708.6	27.2
60°-70°	1919.0	11.1
70°-80°	172.4	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°	17330.0	100.0
0°-180°	17330.0	100.0

Coefficient of Utilization



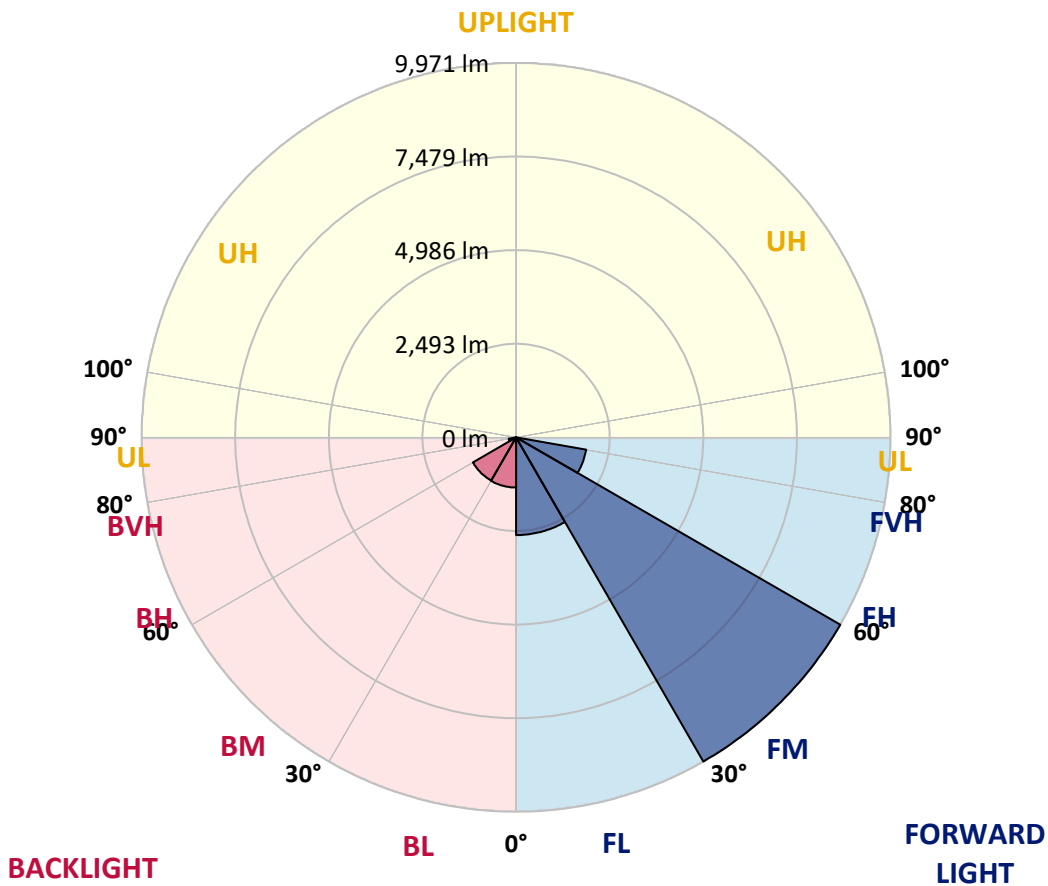
REPORT NUMBER: P640178

CATALOG NUMBER: GWS-SA5D-735-U-SL3-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2602.4	15.0			
FM (30°-60°)	9971.3	57.5			
FH (60°-80°)	1893.6	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1336.1	7.7	B3/2500		
BM (30°-60°)	1328.7	7.7	B2/2500		
BH (60°-80°)	197.9	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





REPORT NUMBER: P640178
 CATALOG NUMBER: GWS-SA5D-735-U-SL3-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	7601.9	7601.9	7601.9	7601.9	7601.9	7601.9	7601.9	7601.9	7601.9	7601.9	7601.9
2.5°	7495.7	7512.7	7542.5	7580.7	7606.2	7618.9	7618.9	7655.0	7631.7	7612.5	7591.3
5°	7175.0	7192.0	7232.3	7293.9	7355.5	7400.1	7451.1	7489.4	7504.2	7504.2	7468.1
7.5°	6722.6	6745.9	6771.4	6856.4	6990.2	7090.0	7177.1	7232.3	7313.1	7338.5	7287.6
10°	6236.2	6259.5	6316.9	6433.7	6586.6	6735.3	6884.0	6954.1	7092.2	7164.4	7107.0
12.5°	5824.1	5834.7	5911.2	6051.4	6246.8	6450.7	6631.2	6703.5	6898.9	7007.2	6939.2
15°	5484.3	5490.6	5567.1	5722.2	5947.3	6197.9	6425.2	6499.6	6739.6	6903.1	6801.2
17.5°	5227.3	5229.4	5295.2	5463.0	5698.8	5977.0	6246.8	6338.1	6648.2	6845.8	6692.8
20°	5097.7	5091.3	5138.0	5284.6	5507.6	5785.9	6104.5	6217.1	6597.3	6837.3	6610.0
22.5°	5099.8	5084.9	5104.1	5208.1	5397.2	5658.4	6015.3	6142.7	6601.5	6873.4	6539.9
25°	5220.9	5199.6	5203.9	5259.1	5392.9	5630.8	6028.0	6164.0	6686.5	6994.5	6514.4
27.5°	5424.8	5401.4	5401.4	5429.0	5501.3	5717.9	6187.3	6342.4	6913.7	7230.2	6567.5
30°	5688.2	5664.8	5656.3	5683.9	5743.4	5943.1	6542.0	6703.5	7302.4	7616.8	6737.4
32.5°	5989.8	5962.2	5977.0	6015.3	6072.6	6348.7	6998.7	7213.2	7788.8	8137.2	7043.3
35°	6308.4	6285.0	6353.0	6435.8	6525.0	6911.6	7629.5	7816.5	8385.7	8785.0	7510.6
37.5°	6612.1	6601.5	6743.8	6918.0	7102.8	7587.1	8271.0	8415.4	8897.6	9490.2	8082.0
40°	6915.9	6913.7	7158.0	7463.9	7759.1	8260.4	8757.4	8876.3	9209.8	10038.2	8630.0
42.5°	7255.7	7255.7	7593.4	8001.2	8394.2	8829.6	9114.2	9167.3	9350.0	10354.7	9042.0
45°	7580.7	7599.8	7990.6	8464.3	8929.4	9273.5	9360.6	9364.9	9407.4	10541.6	9384.0
47.5°	7837.7	7854.7	8322.0	8867.9	9369.1	9611.3	9624.0	9604.9	9558.2	10720.0	9647.4
50°	8045.8	8071.3	8559.9	9137.6	9670.7	9936.2	10033.9	10014.8	9895.9	10911.2	9832.2
52.5°	8147.8	8183.9	8642.7	9271.4	10006.3	10492.7	10764.6	10809.2	10401.4	11017.4	10008.5
55°	7332.2	7385.3	7808.0	8668.2	10193.3	11353.0	11779.9	11771.4	10949.4	11333.9	10437.5
57.5°	5537.4	5533.1	5883.6	6824.5	8706.4	11401.8	12404.4	12387.4	11461.3	11701.3	10877.2
60°	3770.2	3744.7	3838.1	4292.7	6087.5	9288.4	11289.3	11518.6	11098.1	10809.2	9235.3
62.5°	3103.2	3079.9	3050.1	2924.8	3496.2	5785.9	7799.5	8147.8	8092.6	7512.7	5792.2
65°	2540.3	2559.5	2642.3	2589.2	2432.0	2967.3	4048.4	4254.4	3889.1	3273.1	2024.2
67.5°	1873.4	1881.9	1990.2	2270.6	2185.6	1975.4	1905.3	1939.2	1136.4	522.5	337.7
70°	1106.6	1113.0	1212.8	1588.8	1773.6	1516.6	1287.2	1268.0	450.3	140.2	152.9
72.5°	626.6	613.8	633.0	756.2	966.4	805.0	662.7	603.2	135.9	78.6	78.6
75°	297.4	288.9	248.5	233.6	212.4	135.9	85.0	72.2	34.0	31.9	31.9
77.5°	2.1	6.4	4.2	6.4	6.4	4.2	2.1	2.1	6.4	6.4	8.5
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



REPORT NUMBER: P640178
 CATALOG NUMBER: GWS-SA5D-735-U-SL3-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7601.9	7601.9	7601.9	7601.9	7601.9	7601.9	7601.9	7601.9	7601.9	7601.9	7601.9
2.5°	7553.1	7489.4	7474.5	7470.2	7410.8	7347.0	7281.2	7255.7	7217.5	7194.1	7213.2
5°	7410.8	7319.4	7238.7	7164.4	7032.7	6888.2	6762.9	6682.2	6605.8	6554.8	6567.5
7.5°	7209.0	7090.0	6905.2	6716.2	6474.1	6257.4	6015.3	5866.6	5728.5	5652.1	5688.2
10°	6994.5	6837.3	6542.0	6221.3	5841.1	5501.3	5155.0	4872.5	4709.0	4553.9	4570.9
12.5°	6784.2	6576.0	6134.2	5647.8	5167.8	4666.5	4144.0	3753.2	3485.5	3292.3	3262.5
15°	6588.8	6321.1	5737.0	5095.6	4441.4	3774.4	3107.5	2548.8	2238.7	2047.6	2034.8
17.5°	6414.6	6083.2	5325.0	4517.8	3697.9	2844.1	2077.3	1658.9	1480.5	1397.6	1389.1
20°	6246.8	5843.2	4904.4	3931.6	2886.6	1996.6	1433.7	1240.4	1183.1	1149.1	1153.4
22.5°	6085.4	5582.0	4462.6	3281.6	2164.4	1401.9	1110.9	1036.5	1030.2	1034.4	1036.5
25°	5949.4	5342.0	4008.1	2655.0	1544.2	1068.4	928.2	907.0	926.1	953.7	957.9
27.5°	5879.3	5146.5	3564.1	2024.2	1117.2	868.7	805.0	813.5	847.5	877.2	881.5
30°	5898.4	5000.0	3105.3	1467.7	860.2	732.8	711.6	728.5	762.5	790.1	794.4
32.5°	6034.4	4925.6	2635.9	1068.4	707.3	639.3	630.8	643.6	673.3	694.6	696.7
35°	6304.1	4942.6	2189.9	817.8	607.5	569.2	567.1	575.6	590.5	605.4	607.5
37.5°	6701.3	5080.7	1750.2	679.7	550.1	522.5	514.0	514.0	524.6	531.0	535.3
40°	7128.3	5288.9	1401.9	601.1	509.8	480.0	463.0	456.7	465.2	473.7	475.8
42.5°	7480.9	5497.0	1138.5	545.9	477.9	437.6	416.3	412.1	422.7	437.6	441.8
45°	7750.6	5658.4	949.4	501.3	441.8	397.2	373.8	373.8	392.9	418.4	422.7
47.5°	7997.0	5788.0	809.3	460.9	407.8	361.1	337.7	342.0	373.8	407.8	414.2
50°	8164.8	5892.1	705.2	424.8	380.2	331.3	310.1	318.6	356.8	397.2	403.6
52.5°	8345.3	6019.5	637.2	392.9	354.7	308.0	288.9	295.2	337.7	382.3	390.8
55°	8844.5	6446.5	635.1	350.5	310.1	276.1	267.6	269.8	312.2	363.2	373.8
57.5°	9252.3	6822.4	677.6	295.2	259.1	242.1	237.9	240.0	278.2	335.6	348.3
60°	7655.0	5301.6	560.7	244.3	216.7	212.4	206.0	210.3	246.4	297.4	308.0
62.5°	4530.6	3031.0	267.6	186.9	184.8	180.5	174.2	182.7	216.7	261.3	267.6
65°	1548.4	898.5	169.9	152.9	157.2	150.8	144.4	152.9	182.7	208.2	210.3
67.5°	297.4	237.9	135.9	127.4	129.6	116.8	114.7	123.2	140.2	144.4	142.3
70°	155.1	138.1	104.1	104.1	99.8	82.8	82.8	91.3	91.3	85.0	82.8
72.5°	80.7	76.5	68.0	76.5	63.7	51.0	51.0	55.2	51.0	42.5	42.5
75°	31.9	31.9	29.7	38.2	27.6	23.4	21.2	25.5	19.1	14.9	14.9
77.5°	8.5	8.5	8.5	10.6	6.4	6.4	4.2	4.2	2.1	0.0	0.0
80°	0.0	2.1	0.0	2.1	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)