

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: P638693

Luminaire Tested: GWS-SA4F-735-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638693
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-SA4F-735-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19628.1 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

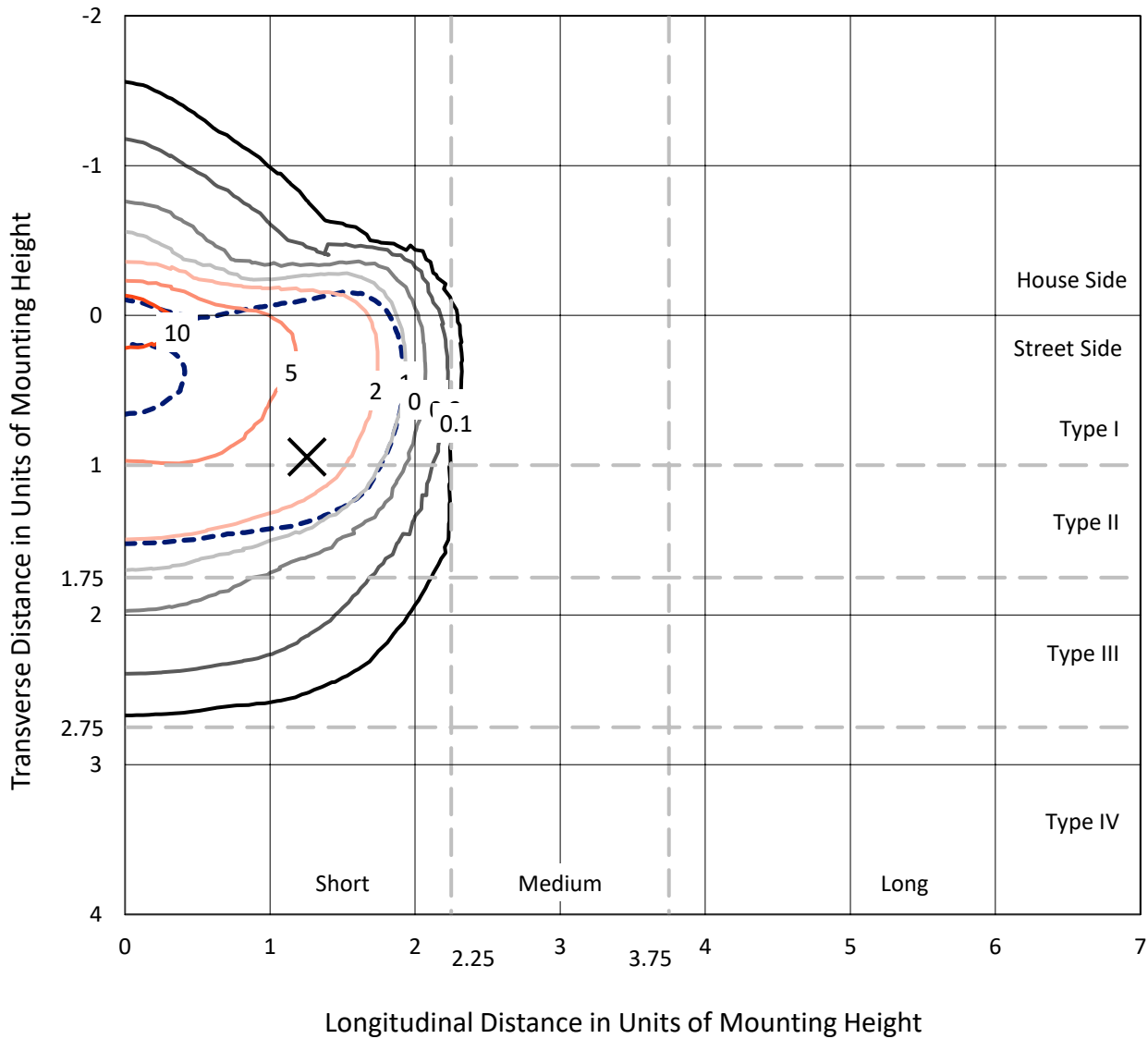
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638693
 CATALOG NUMBER: GWS-SA4F-735-U-SL3-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

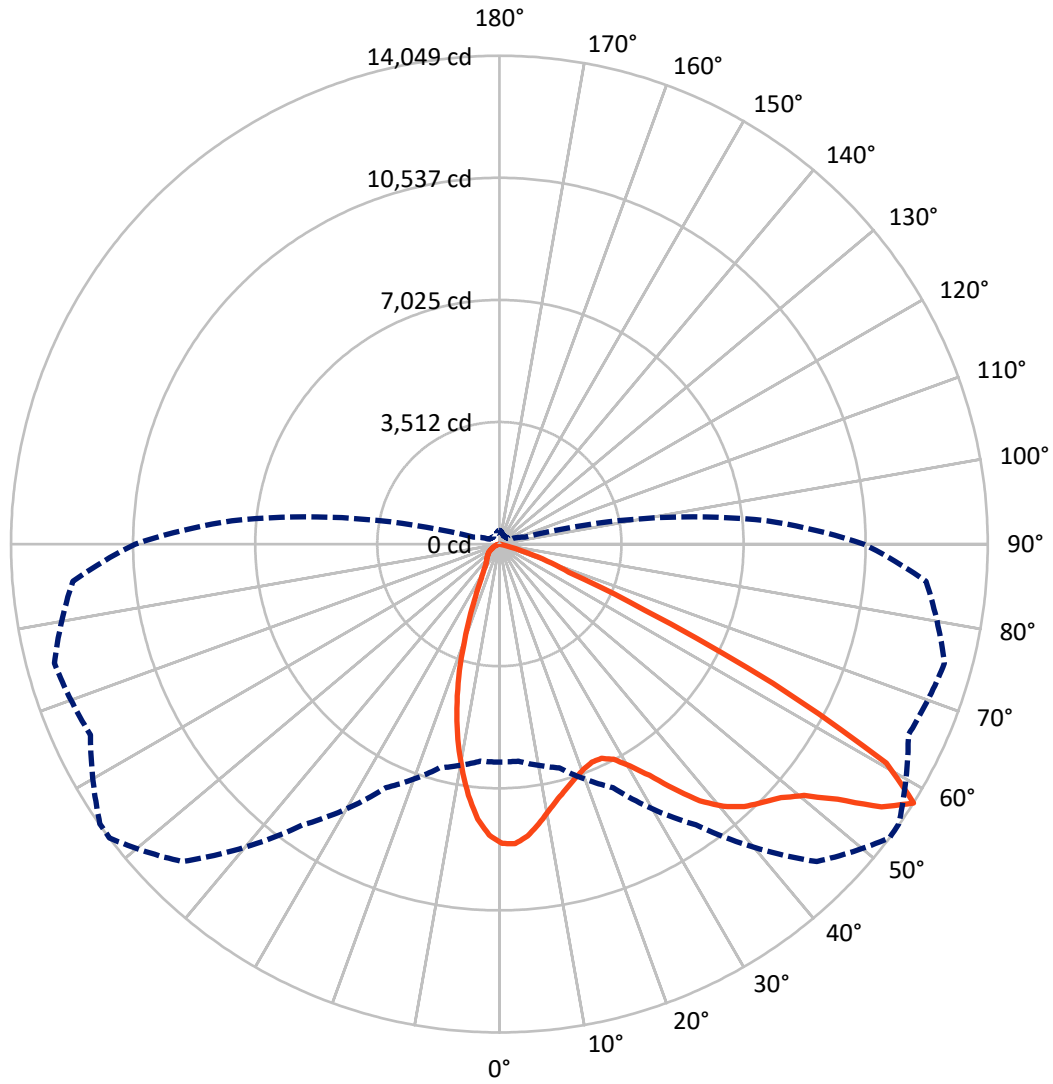
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - N/A

REPORT NUMBER: P638693
CATALOG NUMBER: GWS-SA4F-735-U-SL3-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638693

CATALOG NUMBER: GWS-SA4F-735-U-SL3-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3242.3	0.0	3242.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	16385.8	0.0	16385.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	19628.1	0.0	19628.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	736.7	3.8
10°-20°	1617.2	8.2
20°-30°	2106.8	10.7
30°-40°	3056.0	15.6
40°-50°	4409.6	22.5
50°-60°	5333.0	27.2
60°-70°	2173.5	11.1
70°-80°	195.3	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°	19628.1	100.0
0°-180°	19628.1	100.0

Coefficient of Utilization



REPORT NUMBER: P638693

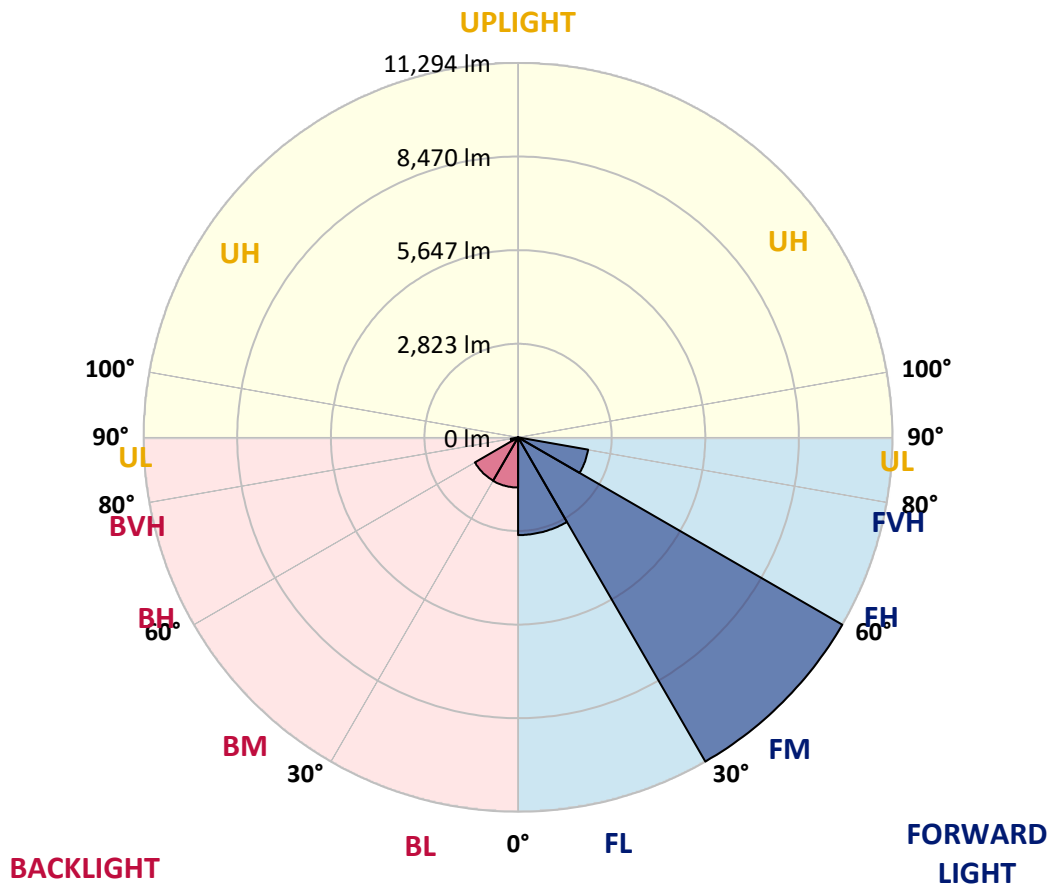
CATALOG NUMBER: GWS-SA4F-735-U-SL3-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2947.5	15.0			
FM (30°-60°)	11293.6	57.5			
FH (60°-80°)	2144.7	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1513.2	7.7	B3/2500		
BM (30°-60°)	1504.9	7.7	B2/2500		
BH (60°-80°)	224.1	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: P638693

CATALOG NUMBER: GWS-SA4F-735-U-SL3-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8610.0	8610.0	8610.0	8610.0	8610.0	8610.0	8610.0	8610.0	8610.0	8610.0	8610.0
2.5°	8489.7	8509.0	8542.6	8585.9	8614.8	8629.2	8629.2	8670.1	8643.7	8622.0	8598.0
5°	8126.5	8145.7	8191.4	8261.2	8330.9	8381.5	8439.2	8482.5	8499.3	8499.3	8458.4
7.5°	7614.0	7640.5	7669.4	7765.6	7917.2	8030.2	8128.9	8191.4	8282.8	8311.7	8254.0
10°	7063.1	7089.6	7154.6	7286.9	7460.1	7628.5	7796.9	7876.3	8032.6	8114.4	8049.5
12.5°	6596.4	6608.5	6695.1	6853.8	7075.2	7306.1	7510.6	7592.4	7813.7	7936.4	7859.4
15°	6211.5	6218.7	6305.3	6481.0	6736.0	7019.8	7277.2	7361.4	7633.3	7818.5	7703.1
17.5°	5920.4	5922.8	5997.4	6187.5	6454.5	6769.6	7075.2	7178.6	7529.8	7753.6	7580.4
20°	5773.7	5766.5	5819.4	5985.4	6238.0	6553.1	6914.0	7041.5	7472.1	7744.0	7486.5
22.5°	5776.1	5759.2	5780.9	5898.8	6112.9	6408.8	6812.9	6957.3	7476.9	7784.8	7407.2
25°	5913.2	5889.2	5894.0	5956.5	6108.1	6377.5	6827.4	6981.3	7573.1	7922.0	7378.3
27.5°	6144.2	6117.7	6117.7	6149.0	6230.8	6476.1	7007.8	7183.4	7830.6	8189.0	7438.4
30°	6442.5	6416.0	6406.4	6437.7	6505.0	6731.2	7409.6	7592.4	8270.8	8626.8	7630.9
32.5°	6784.1	6752.8	6769.6	6812.9	6877.9	7190.6	7926.8	8169.8	8821.7	9216.2	7977.3
35°	7144.9	7118.5	7195.5	7289.3	7390.3	7828.2	8641.3	8853.0	9497.7	9950.0	8506.6
37.5°	7488.9	7476.9	7638.1	7835.4	8044.7	8593.2	9367.8	9531.4	10077.5	10748.7	9153.7
40°	7833.0	7830.6	8107.2	8453.6	8788.0	9355.8	9918.7	10053.4	10431.1	11369.3	9774.4
42.5°	8217.9	8217.9	8600.4	9062.3	9507.3	10000.5	10322.9	10383.0	10589.9	11727.8	10241.1
45°	8585.9	8607.6	9050.2	9586.7	10113.6	10503.3	10601.9	10606.7	10654.8	11939.5	10628.4
47.5°	8877.0	8896.3	9425.5	10043.8	10611.5	10885.8	10900.2	10878.6	10825.7	12141.6	10926.7
50°	9112.8	9141.7	9695.0	10349.3	10953.2	11253.9	11364.5	11342.9	11208.2	12358.1	11136.0
52.5°	9228.3	9269.2	9788.8	10500.9	11333.3	11884.2	12192.1	12242.6	11780.7	12478.4	11335.7
55°	8304.5	8364.6	8843.4	9817.7	11545.0	12858.5	13342.0	13332.4	12401.4	12836.8	11821.6
57.5°	6271.7	6266.9	6663.8	7729.5	9861.0	12913.8	14049.3	14030.0	12981.2	13253.0	12319.6
60°	4270.1	4241.3	4347.1	4861.9	6894.7	10520.1	12786.3	13046.1	12569.8	12242.6	10460.0
62.5°	3514.7	3488.3	3454.6	3312.7	3959.8	6553.1	8833.7	9228.3	9165.7	8509.0	6560.3
65°	2877.2	2898.9	2992.7	2932.5	2754.5	3360.8	4585.3	4818.6	4404.8	3707.2	2292.6
67.5°	2121.8	2131.5	2254.1	2571.7	2475.5	2237.3	2157.9	2196.4	1287.0	591.8	382.5
70°	1253.4	1260.6	1373.7	1799.5	2008.8	1717.7	1457.9	1436.2	510.0	158.8	173.2
72.5°	709.7	695.2	716.9	856.4	1094.6	911.8	750.6	683.2	154.0	89.0	89.0
75°	336.8	327.2	281.5	264.6	240.6	154.0	96.2	81.8	38.5	36.1	36.1
77.5°	2.4	7.2	4.8	7.2	7.2	4.8	2.4	2.4	7.2	7.2	9.6
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: P638693

CATALOG NUMBER: GWS-SA4F-735-U-SL3-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8610.0	8610.0	8610.0	8610.0	8610.0	8610.0	8610.0	8610.0	8610.0	8610.0	8610.0
2.5°	8554.7	8482.5	8465.7	8460.9	8393.5	8321.3	8246.7	8217.9	8174.6	8148.1	8169.8
5°	8393.5	8290.0	8198.6	8114.4	7965.3	7801.7	7659.8	7568.3	7481.7	7424.0	7438.4
7.5°	8164.9	8030.2	7820.9	7606.8	7332.6	7087.2	6812.9	6644.5	6488.2	6401.6	6442.5
10°	7922.0	7744.0	7409.6	7046.3	6615.7	6230.8	5838.6	5518.7	5333.4	5157.8	5177.1
12.5°	7683.8	7448.1	6947.7	6396.8	5853.1	5285.3	4693.5	4250.9	3947.8	3728.8	3695.2
15°	7462.5	7159.4	6497.8	5771.3	5030.3	4274.9	3519.5	2886.8	2535.6	2319.1	2304.7
17.5°	7265.2	6889.9	6031.1	5116.9	4188.3	3221.2	2352.8	1878.9	1676.8	1583.0	1573.3
20°	7075.2	6618.1	5554.8	4453.0	3269.3	2261.4	1623.8	1404.9	1340.0	1301.5	1306.3
22.5°	6892.3	6322.2	5054.4	3716.8	2451.4	1587.8	1258.2	1174.0	1166.8	1171.6	1174.0
25°	6738.4	6050.3	4539.6	3007.1	1748.9	1210.1	1051.3	1027.2	1048.9	1080.2	1085.0
27.5°	6659.0	5829.0	4036.8	2292.6	1265.4	983.9	911.8	921.4	959.9	993.6	998.4
30°	6680.6	5663.0	3517.1	1662.3	974.3	830.0	805.9	825.2	863.6	894.9	899.7
32.5°	6834.6	5578.8	2985.5	1210.1	801.1	724.1	714.5	728.9	762.6	786.7	789.1
35°	7140.1	5598.1	2480.3	926.2	688.0	644.7	642.3	651.9	668.8	685.6	688.0
37.5°	7590.0	5754.4	1982.3	769.8	623.1	591.8	582.2	582.2	594.2	601.4	606.2
40°	8073.5	5990.2	1587.8	680.8	577.4	543.7	524.4	517.2	526.8	536.5	538.9
42.5°	8472.9	6226.0	1289.5	618.3	541.3	495.6	471.5	466.7	478.7	495.6	500.4
45°	8778.4	6408.8	1075.3	567.7	500.4	449.9	423.4	423.4	445.1	473.9	478.7
47.5°	9057.5	6555.5	916.6	522.0	461.9	409.0	382.5	387.3	423.4	461.9	469.1
50°	9247.5	6673.4	798.7	481.1	430.6	375.3	351.2	360.9	404.2	449.9	457.1
52.5°	9452.0	6817.8	721.7	445.1	401.8	348.8	327.2	334.4	382.5	433.0	442.6
55°	10017.3	7301.3	719.3	396.9	351.2	312.7	303.1	305.5	353.6	411.4	423.4
57.5°	10479.2	7727.1	767.4	334.4	293.5	274.2	269.4	271.8	315.1	380.1	394.5
60°	8670.1	6004.6	635.1	276.7	245.4	240.6	233.4	238.2	279.1	336.8	348.8
62.5°	5131.4	3432.9	303.1	211.7	209.3	204.5	197.3	206.9	245.4	295.9	303.1
65°	1753.8	1017.6	192.5	173.2	178.0	170.8	163.6	173.2	206.9	235.8	238.2
67.5°	336.8	269.4	154.0	144.3	146.7	132.3	129.9	139.5	158.8	163.6	161.2
70°	175.6	156.4	117.9	117.9	113.1	93.8	93.8	103.4	103.4	96.2	93.8
72.5°	91.4	86.6	77.0	86.6	72.2	57.7	57.7	62.5	57.7	48.1	48.1
75°	36.1	36.1	33.7	43.3	31.3	26.5	24.1	28.9	21.7	16.8	16.8
77.5°	9.6	9.6	9.6	12.0	7.2	7.2	4.8	4.8	2.4	0.0	0.0
80°	0.0	2.4	0.0	2.4	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)