

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: P640669

Luminaire Tested: GWS-SA5E-735-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-735-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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: 21741.3 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

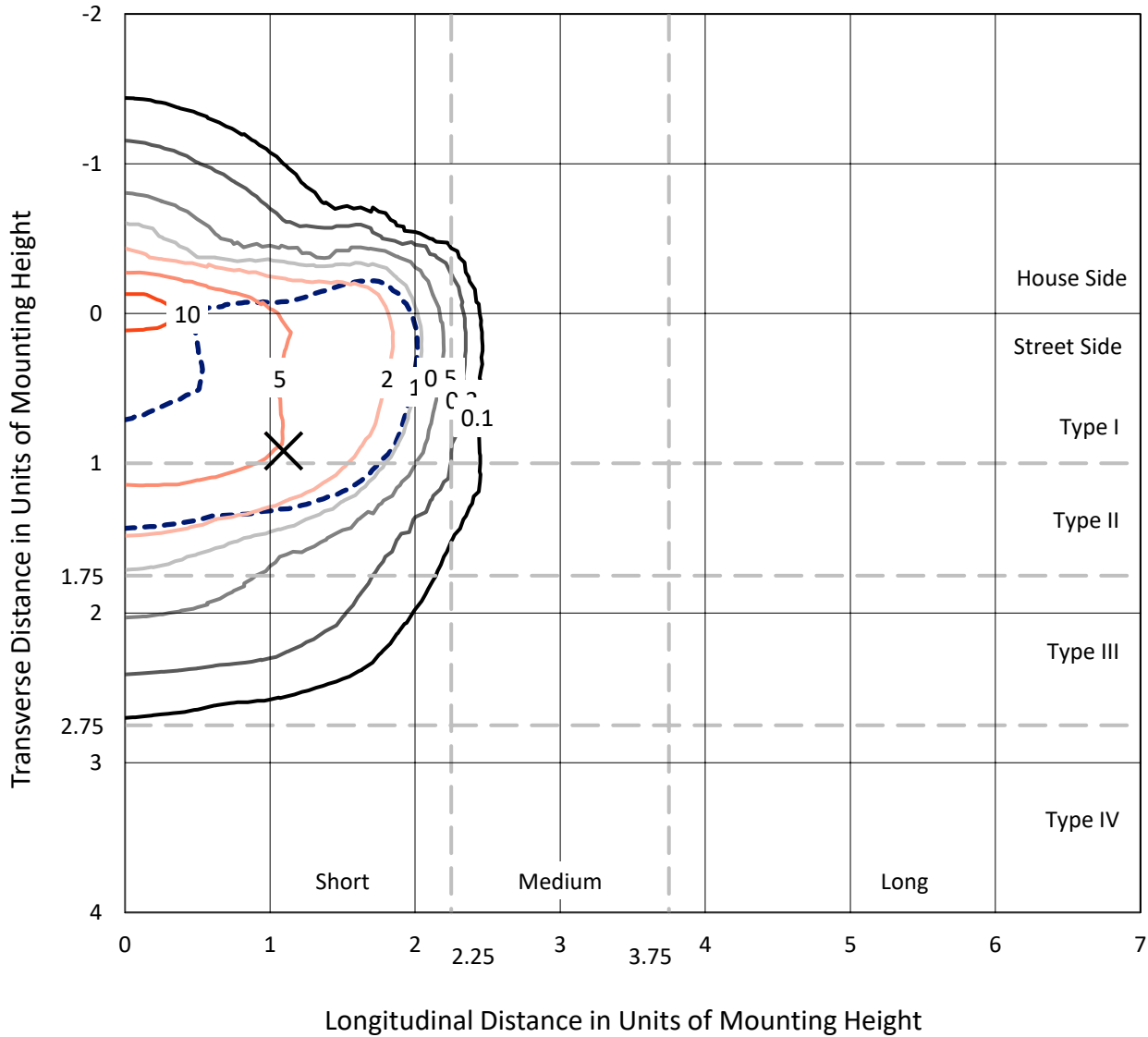
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

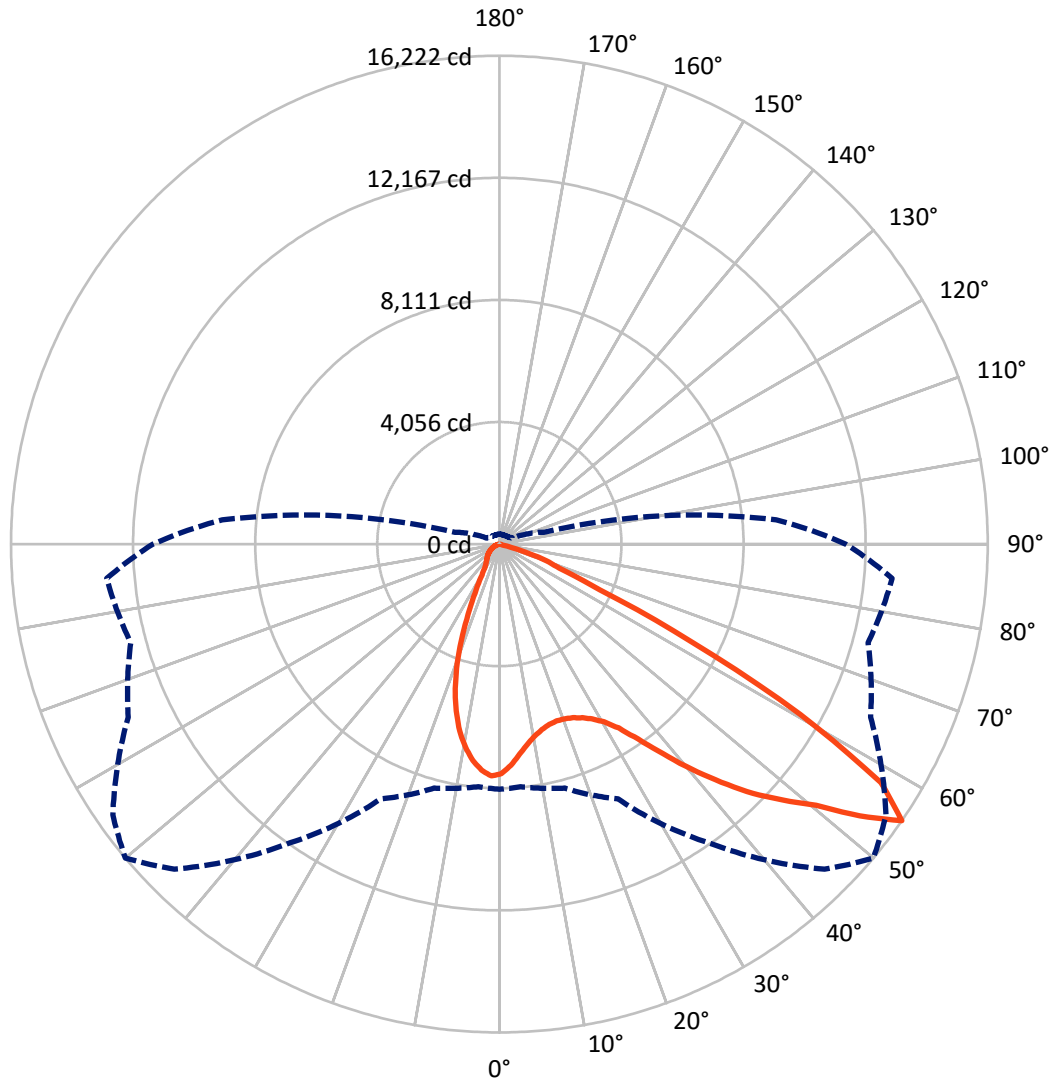
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4284.1	0.0	4284.1
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	17457.3	0.0	17457.3
	% Fixture	80.3	0.0	80.3
Total	Lumens	21741.3	0.0	21741.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.9	3.1
10°-20°	1648.5	7.6
20°-30°	2325.3	10.7
30°-40°	3441.0	15.8
40°-50°	4964.2	22.8
50°-60°	5855.7	26.9
60°-70°	2612.1	12.0
70°-80°	224.6	1.0
80°-90°	0.1	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°	21741.3	100.0
0°-180°	21741.3	100.0

Coefficient of Utilization



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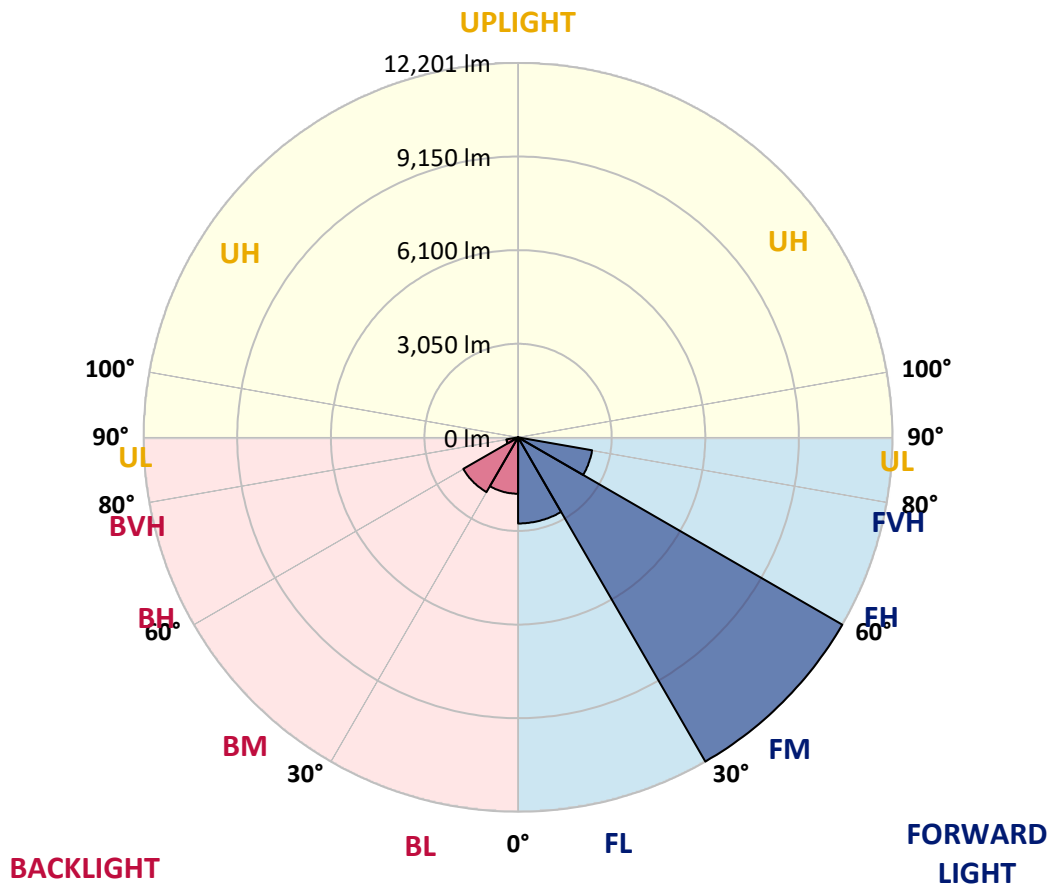
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2806.9	12.9			
FM (30°-60°)	12200.5	56.1			
FH (60°-80°)	2449.9	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1836.8	8.4	B3/2500		
BM (30°-60°)	2060.3	9.5	B2/2500		
BH (60°-80°)	386.8	1.8	B1/500		G1/500
BVH (80°-90°)	0.1	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°	50°	55°	65°	75°	85°
0°	7628.1	7628.1	7628.1	7628.1	7628.1	7628.1	7628.1	7628.1	7628.1	7628.1	7628.1
2.5°	7086.6	7091.9	7094.6	7166.2	7192.8	7298.9	7354.7	7383.9	7460.8	7551.1	7625.4
5°	6611.5	6603.6	6616.8	6707.1	6765.5	6922.1	7007.0	7065.4	7235.2	7447.6	7625.4
7.5°	6197.5	6213.4	6229.3	6327.5	6415.1	6585.0	6707.1	6794.7	7030.9	7346.7	7646.6
10°	5905.5	5905.5	5929.4	6040.9	6144.4	6354.1	6476.2	6587.6	6869.0	7256.5	7670.5
12.5°	5690.5	5693.2	5722.4	5849.8	5969.2	6186.8	6314.2	6423.1	6733.6	7166.2	7675.8
15°	5589.7	5581.7	5605.6	5740.9	5873.7	6078.0	6210.7	6316.9	6638.1	7115.8	7702.4
17.5°	5563.1	5557.8	5576.4	5709.1	5844.5	6043.5	6173.6	6279.7	6624.8	7131.7	7782.0
20°	5640.1	5629.5	5621.5	5735.6	5863.0	6059.4	6194.8	6314.2	6688.5	7219.3	7904.1
22.5°	5823.2	5823.2	5804.6	5860.4	5945.3	6123.1	6263.8	6420.4	6855.7	7394.5	8084.6
25°	6160.3	6133.8	6099.3	6123.1	6112.5	6224.0	6391.2	6608.9	7171.5	7683.8	8304.9
27.5°	6545.2	6569.0	6510.7	6513.3	6420.4	6380.6	6574.4	6903.5	7641.3	8092.5	8631.3
30°	7068.0	7049.4	7052.1	7044.1	6829.2	6640.7	6850.4	7288.3	8233.2	8716.3	9056.0
32.5°	7476.8	7503.3	7590.9	7641.3	7360.0	7057.4	7280.4	7811.2	8907.4	9427.6	9576.2
35°	7909.4	7957.2	8135.0	8299.6	8063.3	7715.6	7954.5	8503.9	9541.7	10130.9	10173.4
37.5°	8365.9	8461.5	8673.8	8963.1	8925.9	8618.1	8835.7	9318.8	10040.7	10555.6	10667.1
40°	8888.8	8981.7	9329.4	9746.1	9833.7	9764.7	9836.3	10117.7	10369.8	10574.2	10879.4
42.5°	9462.1	9589.5	10030.1	10587.4	10916.6	10977.6	10810.4	10781.2	10513.1	10361.8	10834.3
45°	10138.9	10287.5	10786.5	11508.4	12031.3	12113.6	11824.3	11450.0	10603.4	10205.2	10698.9
47.5°	10898.0	11038.7	11535.0	12402.9	13180.6	13212.4	12708.1	12105.6	10871.4	10385.7	10802.4
50°	11152.8	11240.4	11670.3	12689.5	14122.8	14367.0	13637.1	12843.5	11410.2	10916.6	11306.7
52.5°	10276.9	10311.4	10685.6	11715.5	13931.7	15500.3	14993.4	13945.0	12368.4	11726.1	12084.4
55°	8143.0	8087.2	8389.8	9334.7	12108.3	15269.4	16222.2	15675.5	13602.6	12676.3	13095.6
57.5°	5695.8	5629.5	5560.5	6200.1	9034.8	12944.3	14948.2	15917.0	14778.4	13618.5	14186.5
60°	4681.9	4618.2	4283.8	3989.2	5462.3	9294.9	11481.9	13305.3	14682.8	13570.7	14152.0
62.5°	4044.9	4007.8	3872.4	3471.6	3214.2	5305.7	7190.1	8936.6	11266.9	10656.5	10688.3
65°	3177.0	3166.4	3259.3	3301.8	2842.6	2935.5	3668.0	4644.8	6091.3	5743.6	5446.3
67.5°	2171.1	2147.2	2322.4	2855.9	2733.8	2317.1	2147.2	2165.8	2635.6	1611.1	1279.3
70°	1380.2	1324.4	1327.1	1770.3	2224.2	1828.7	1656.2	1457.1	1311.2	238.9	270.7
72.5°	883.8	849.3	729.9	798.9	1029.8	891.8	899.8	775.0	517.6	127.4	148.6
75°	371.6	342.4	262.8	209.7	207.0	130.1	114.1	106.2	71.7	71.7	77.0
77.5°	2.7	0.0	0.0	2.7	5.3	2.7	2.7	5.3	10.6	15.9	18.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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°	7628.1	7628.1	7628.1	7628.1	7628.1	7628.1	7628.1	7628.1	7628.1	7628.1	7628.1
2.5°	7670.5	7606.8	7678.5	7705.0	7702.4	7705.0	7628.1	7575.0	7572.3	7506.0	7474.1
5°	7699.7	7649.3	7702.4	7667.9	7585.6	7482.1	7344.1	7224.6	7171.5	7094.6	7057.4
7.5°	7755.5	7702.4	7694.4	7556.4	7352.0	7134.4	6890.2	6672.6	6555.8	6415.1	6423.1
10°	7795.3	7734.2	7630.7	7349.4	7009.6	6661.9	6298.3	5974.5	5770.1	5581.7	5549.8
12.5°	7811.2	7721.0	7479.4	7054.8	6577.0	6123.1	5589.7	5127.8	4809.3	4562.5	4528.0
15°	7840.4	7694.4	7285.7	6699.1	6043.5	5401.2	4721.8	4090.1	3668.0	3384.1	3407.9
17.5°	7885.5	7665.2	7068.0	6301.0	5470.2	4562.5	3644.2	2919.6	2532.1	2367.5	2370.2
20°	7949.2	7630.7	6829.2	5863.0	4782.8	3615.0	2548.0	2001.2	1892.4	1887.1	1879.1
22.5°	8034.1	7596.2	6574.4	5382.6	3968.0	2532.1	1696.0	1526.1	1571.3	1658.9	1674.8
25°	8135.0	7553.7	6290.4	4841.2	3078.8	1661.5	1271.3	1244.8	1353.6	1470.4	1496.9
27.5°	8291.6	7532.5	5966.6	4225.4	2160.5	1191.7	1040.4	1056.4	1154.6	1252.8	1276.7
30°	8557.0	7572.3	5613.5	3535.3	1388.1	950.2	902.4	926.3	979.4	1029.8	1051.0
32.5°	8918.0	7689.1	5271.2	2781.6	990.0	825.4	814.8	828.1	849.3	878.5	886.5
35°	9340.0	7890.8	4918.2	1990.6	817.5	753.8	743.2	743.2	753.8	759.1	761.7
37.5°	9687.7	8103.2	4586.4	1324.4	732.5	698.0	682.1	674.2	671.5	676.8	679.5
40°	9839.0	8190.7	4225.4	963.5	671.5	647.6	623.7	599.8	599.8	618.4	621.1
42.5°	9732.8	8092.5	3808.7	796.2	629.0	594.5	557.4	536.1	546.8	565.3	570.6
45°	9507.2	7851.0	3349.6	703.4	586.6	541.4	499.0	485.7	496.3	520.2	525.5
47.5°	9470.0	7691.8	2800.1	642.3	541.4	496.3	451.2	437.9	451.2	469.8	475.1
50°	9839.0	7829.8	2189.7	589.2	499.0	448.6	411.4	398.1	406.1	416.7	422.0
52.5°	10513.1	8342.0	1767.7	538.8	448.6	400.8	376.9	361.0	361.0	371.6	374.2
55°	11508.4	9236.5	1526.1	480.4	390.2	363.6	342.4	326.5	326.5	331.8	334.4
57.5°	12655.0	10319.4	1581.9	403.4	342.4	329.1	310.5	297.3	302.6	302.6	302.6
60°	12495.8	10239.8	1693.4	339.7	302.6	297.3	281.3	276.0	289.3	278.7	273.4
62.5°	9204.6	7073.3	886.5	278.7	260.1	254.8	244.2	254.8	273.4	244.2	233.6
65°	4469.6	3423.9	355.7	228.3	220.3	215.0	209.7	225.6	236.2	191.1	180.5
67.5°	1051.0	854.6	230.9	193.8	183.1	172.5	177.8	180.5	172.5	130.1	124.7
70°	273.4	268.1	180.5	161.9	146.0	135.4	135.4	132.7	114.1	82.3	77.0
72.5°	148.6	146.0	130.1	122.1	100.9	90.2	92.9	82.3	63.7	47.8	45.1
75°	74.3	79.6	74.3	69.0	55.7	50.4	50.4	45.1	31.8	18.6	18.6
77.5°	15.9	18.6	18.6	15.9	13.3	10.6	10.6	13.3	5.3	0.0	0.0
80°	2.7	2.7	2.7	2.7	2.7	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)