

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: P643835

Luminaire Tested: GWS-SA6F-760-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-760-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31493 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

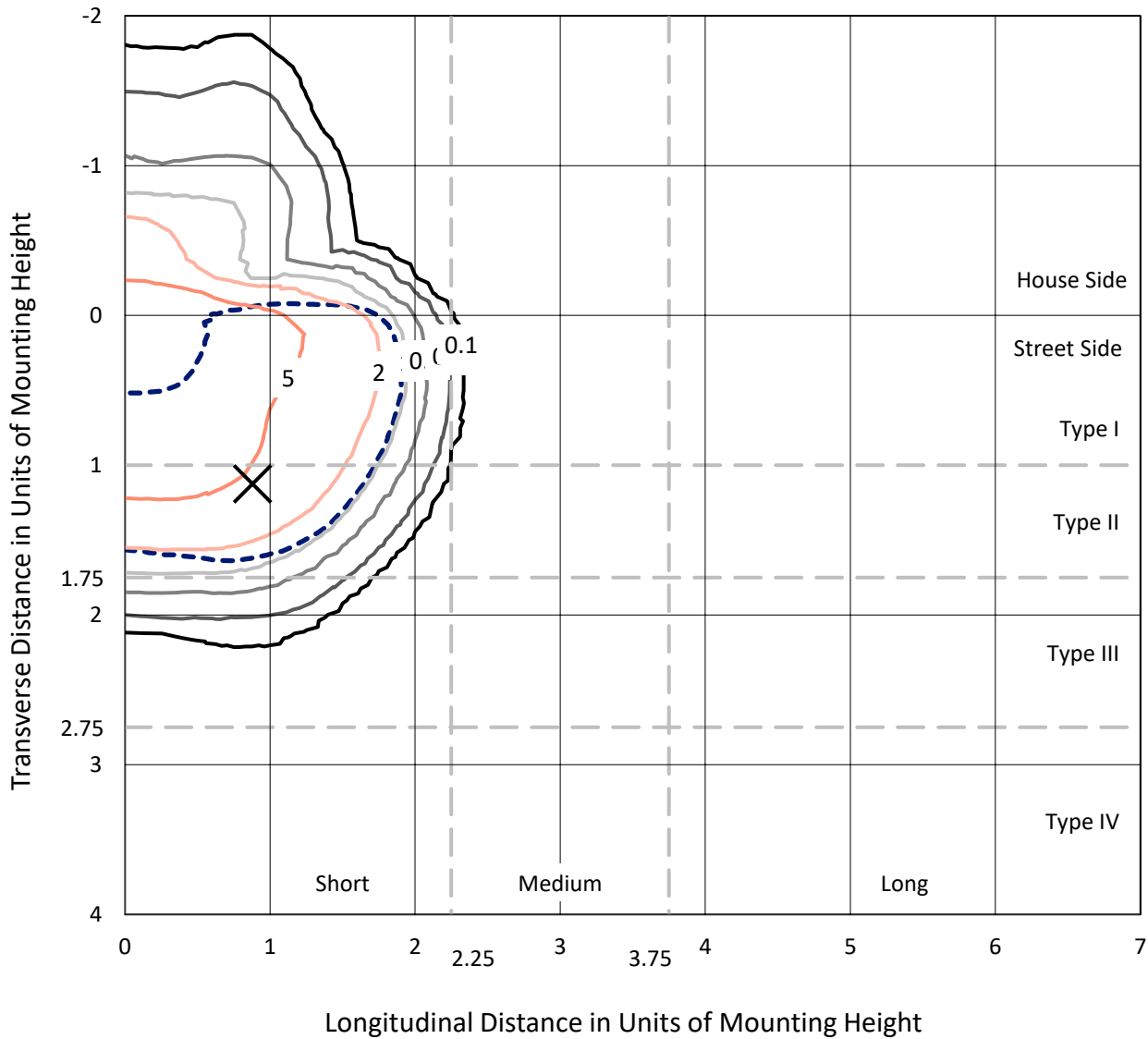
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

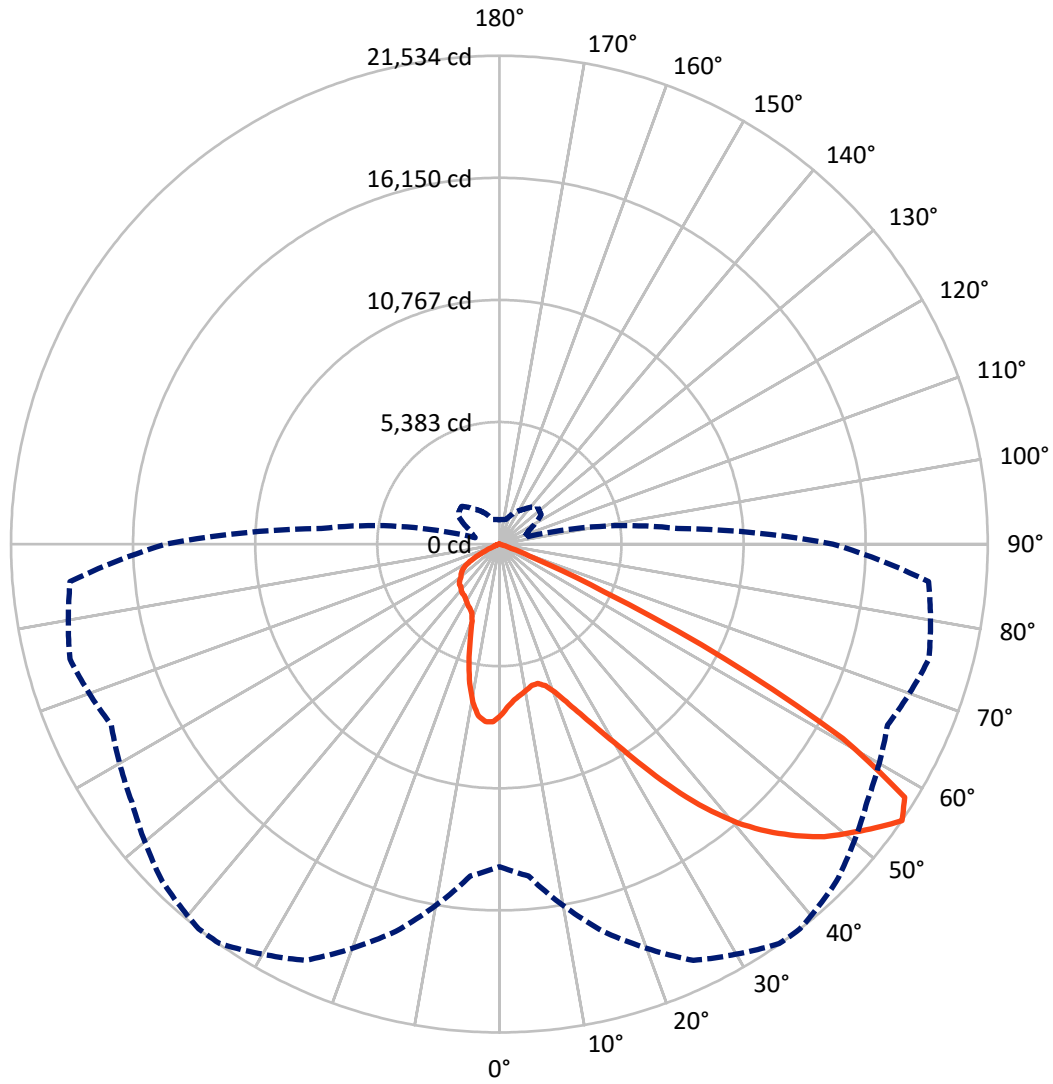
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6135.8	0.0	6135.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	25357.2	0.0	25357.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	31493.0	0.0	31493.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	698.3	2.2
10°-20°	1879.9	6.0
20°-30°	3226.1	10.2
30°-40°	5350.6	17.0
40°-50°	7865.7	25.0
50°-60°	9191.3	29.2
60°-70°	3115.6	9.9
70°-80°	159.3	0.5
80°-90°	6.3	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°	31493.0	100.0
0°-180°	31493.0	100.0

Coefficient of Utilization



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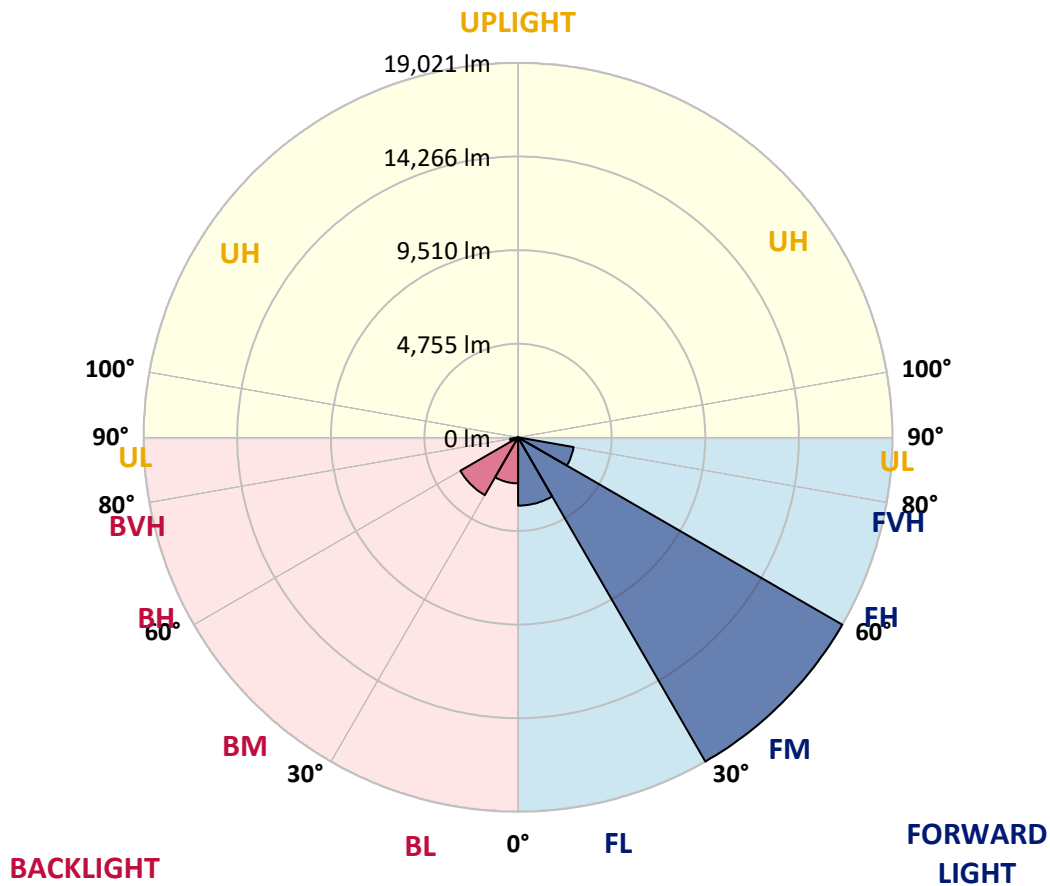
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3466.6	11.0			
FM (30°-60°)	19020.9	60.4			
FH (60°-80°)	2866.4	9.1			G2/5000
FVH (80°-90°)	3.3	0.0			G0/10
BL (0°-30°)	2337.7	7.4	B3/2500		
BM (30°-60°)	3386.7	10.8	B3/5000		
BH (60°-80°)	408.5	1.3	B1/500		G1/500
BVH (80°-90°)	2.9	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°	38°	45°	55°	65°	75°	85°
0°	7552.3	7552.3	7552.3	7552.3	7552.3	7552.3	7552.3	7552.3	7552.3	7552.3	7552.3
2.5°	7033.9	7019.5	7048.3	7105.9	7159.9	7177.9	7231.9	7307.5	7354.3	7465.9	7555.9
5°	6717.1	6709.9	6738.7	6789.1	6861.1	6886.3	6969.1	7095.1	7221.1	7415.5	7606.3
7.5°	6429.1	6425.5	6468.7	6580.3	6684.7	6717.1	6817.9	6972.7	7141.9	7440.7	7721.5
10°	6051.2	6054.8	6137.6	6296.0	6486.7	6551.5	6713.5	6936.7	7156.3	7541.5	7930.2
12.5°	5928.8	5936.0	5979.2	6101.6	6310.4	6393.1	6619.9	6958.3	7239.1	7685.5	8200.2
15°	6227.6	6227.6	6191.6	6206.0	6299.6	6375.1	6612.7	7030.3	7379.5	7858.2	8466.6
17.5°	6807.1	6785.5	6695.5	6573.1	6540.7	6565.9	6756.7	7185.1	7577.5	8059.8	8769.0
20°	7591.9	7599.1	7422.7	7167.1	6961.9	6958.3	7073.5	7458.7	7861.8	8301.0	9096.6
22.5°	8542.2	8513.4	8279.4	7930.2	7573.9	7545.1	7591.9	7876.2	8272.2	8682.6	9499.7
25°	9643.7	9629.3	9298.1	8830.2	8358.6	8290.2	8290.2	8571.0	8859.0	9226.1	9982.1
27.5°	10795.6	10795.6	10475.3	9935.3	9308.9	9186.5	9168.5	9499.7	9690.5	9762.5	10388.9
30°	11979.9	11965.5	11648.8	11094.4	10424.9	10298.9	10248.5	10493.3	10630.0	10414.1	10896.4
32.5°	13182.3	13207.5	12887.1	12372.3	11774.8	11692.0	11537.2	11537.2	11648.8	11346.4	11695.6
35°	14474.6	14467.4	14215.4	13866.2	13355.0	13261.5	13005.9	12606.3	12775.5	12642.3	12800.7
37.5°	15615.7	15669.7	15547.3	15288.1	14874.1	14780.5	14359.4	13635.8	13765.4	13974.2	14114.6
40°	16774.8	16818.0	16940.4	16857.6	16335.6	16162.8	15414.1	14226.2	14370.2	15086.5	15489.7
42.5°	17912.3	17933.9	18182.3	18319.1	17620.7	17318.4	16213.2	14586.2	14737.4	15957.7	16663.2
45°	18635.9	18682.7	19093.0	19510.6	18754.7	18340.7	16908.0	15046.9	15111.7	16562.4	17530.8
47.5°	18607.1	18715.1	19485.4	20245.0	19730.2	19283.8	17743.1	15784.9	15676.9	17131.2	18103.1
50°	18027.5	18157.1	19262.2	20468.1	20432.1	20018.2	18671.9	16854.0	16515.6	17635.1	18175.1
52.5°	16825.2	17199.6	18869.9	20496.9	20997.3	20788.5	19820.2	18293.9	17649.5	18358.7	18290.3
55°	14226.2	14687.0	17678.3	20252.2	21508.5	21533.7	21026.1	19795.0	18880.7	19604.2	18999.4
57.5°	10799.2	11166.4	13607.0	18027.5	20662.5	21076.5	21494.1	20586.9	19640.2	20453.7	19165.0
60°	6508.3	6933.1	8520.6	13229.1	16688.4	17394.0	19031.8	18855.5	17714.3	18063.5	15716.5
62.5°	2638.6	2861.8	3934.5	7289.5	10504.1	11162.8	12732.3	12998.7	12717.9	12361.5	9532.1
65°	964.7	1054.7	1576.7	3013.0	4830.9	5072.0	5900.0	6371.5	6760.3	5756.0	3545.7
67.5°	597.6	655.2	1025.9	1547.9	1756.7	1634.3	1663.1	1983.5	1893.5	1169.9	633.6
70°	442.8	489.6	802.7	1072.7	709.1	547.2	370.8	396.0	356.4	313.2	309.6
72.5°	306.0	349.2	601.2	633.6	273.6	194.4	136.8	190.8	216.0	212.4	219.6
75°	201.6	234.0	378.0	248.4	68.4	54.0	46.8	100.8	129.6	129.6	133.2
77.5°	118.8	136.8	133.2	50.4	14.4	14.4	10.8	18.0	28.8	32.4	39.6
80°	14.4	10.8	7.2	7.2	7.2	7.2	7.2	7.2	10.8	10.8	10.8
82.5°	3.6	3.6	3.6	7.2	7.2	7.2	7.2	7.2	7.2	10.8	10.8
85°	0.0	0.0	3.6	3.6	7.2	7.2	7.2	7.2	7.2	10.8	10.8
87.5°	0.0	0.0	3.6	3.6	7.2	7.2	7.2	7.2	7.2	10.8	10.8
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°	7552.3	7552.3	7552.3	7552.3	7552.3	7552.3	7552.3	7552.3	7552.3	7552.3	7552.3
2.5°	7624.3	7599.1	7703.5	7779.0	7840.2	7869.0	7829.4	7825.8	7825.8	7746.6	7725.1
5°	7714.3	7725.1	7872.6	7937.4	7948.2	7912.2	7822.2	7761.0	7725.1	7642.3	7595.5
7.5°	7887.0	7923.0	8063.4	8052.6	7955.4	7789.8	7552.3	7368.7	7249.9	7120.3	7041.1
10°	8135.4	8203.8	8290.2	8139.0	7829.4	7408.3	6918.7	6569.5	6360.7	6213.2	6123.2
12.5°	8437.8	8506.2	8477.4	8121.0	7476.7	6724.3	6094.4	5590.4	5349.2	5216.0	5122.4
15°	8743.8	8787.0	8599.8	7905.0	6853.9	5842.4	5140.4	4640.1	4344.9	4236.9	4157.7
17.5°	9057.0	9046.2	8621.4	7480.3	6022.4	4848.9	4157.7	3815.7	3732.9	3714.9	3707.7
20°	9384.5	9287.3	8535.0	6871.9	5021.6	3866.1	3473.8	3495.4	3646.5	3718.5	3732.9
22.5°	9758.9	9514.1	8319.0	6047.6	3999.3	3221.8	3261.4	3473.8	3678.9	3776.1	3790.5
25°	10158.5	9722.9	7959.0	4989.2	3153.4	2962.6	3196.6	3441.4	3660.9	3779.7	3794.1
27.5°	10421.3	9773.3	7368.7	3923.7	2707.0	2861.8	3110.2	3344.2	3570.9	3700.5	3718.5
30°	10705.6	9751.7	6565.9	3023.8	2555.8	2775.4	2991.4	3203.8	3412.6	3556.5	3570.9
32.5°	11123.2	9737.3	5586.8	2455.0	2494.6	2707.0	2865.4	3041.8	3185.8	3268.6	3257.8
35°	11670.4	9719.3	4445.7	2213.8	2458.6	2653.0	2779.0	2861.8	2703.4	2653.0	2663.8
37.5°	12372.3	9762.5	3484.6	2113.0	2447.8	2638.6	2746.6	2509.0	2264.2	2170.6	2156.2
40°	13149.9	9874.1	2656.6	2073.5	2483.8	2674.6	2624.2	2231.8	1929.5	1745.9	1706.3
42.5°	13931.0	9996.5	2102.3	2059.1	2545.0	2775.4	2422.6	2030.3	1576.7	1472.3	1457.9
45°	14510.6	9974.9	1817.9	2033.9	2599.0	2833.0	2368.6	1742.3	1407.5	1360.7	1364.3
47.5°	14802.1	9737.3	1663.1	1976.3	2620.6	2775.4	2235.4	1623.5	1292.3	1342.7	1385.9
50°	14647.4	9121.8	1519.1	1864.7	2573.8	2699.8	2023.1	1533.5	1234.7	1443.5	1540.7
52.5°	14460.2	8365.8	1360.7	1691.9	2462.2	2595.4	1940.3	1508.3	1198.7	1393.1	1465.1
55°	14708.6	7887.0	1101.5	1425.5	2242.6	2350.6	1875.5	1504.7	1115.9	1083.5	1072.7
57.5°	14359.4	6933.1	788.3	1025.9	1720.7	1861.1	1828.7	1479.5	989.9	986.3	1000.7
60°	11098.0	4229.7	540.0	651.6	1054.7	1187.9	1659.5	1414.7	853.1	784.7	788.3
62.5°	6306.8	1799.9	370.8	403.2	540.0	640.8	1267.1	1285.1	788.3	748.7	788.3
65°	2195.8	644.4	288.0	270.0	298.8	342.0	727.1	993.5	716.3	648.0	655.2
67.5°	453.6	320.4	255.6	223.2	223.2	223.2	370.8	619.2	590.4	514.8	522.0
70°	288.0	273.6	223.2	190.8	183.6	169.2	212.4	342.0	406.8	374.4	378.0
72.5°	212.4	208.8	176.4	154.8	136.8	122.4	133.2	169.2	208.8	216.0	219.6
75°	129.6	133.2	115.2	97.2	86.4	75.6	79.2	79.2	79.2	72.0	79.2
77.5°	39.6	43.2	36.0	28.8	25.2	25.2	25.2	21.6	18.0	10.8	10.8
80°	10.8	10.8	10.8	10.8	10.8	7.2	7.2	3.6	3.6	0.0	0.0
82.5°	10.8	10.8	10.8	10.8	7.2	7.2	3.6	3.6	0.0	0.0	0.0
85°	10.8	10.8	10.8	10.8	7.2	7.2	3.6	3.6	0.0	0.0	0.0
87.5°	10.8	10.8	10.8	10.8	7.2	7.2	3.6	3.6	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)