

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: P643137

Luminaire Tested: GWS-SA6E-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-735-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33252.1 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

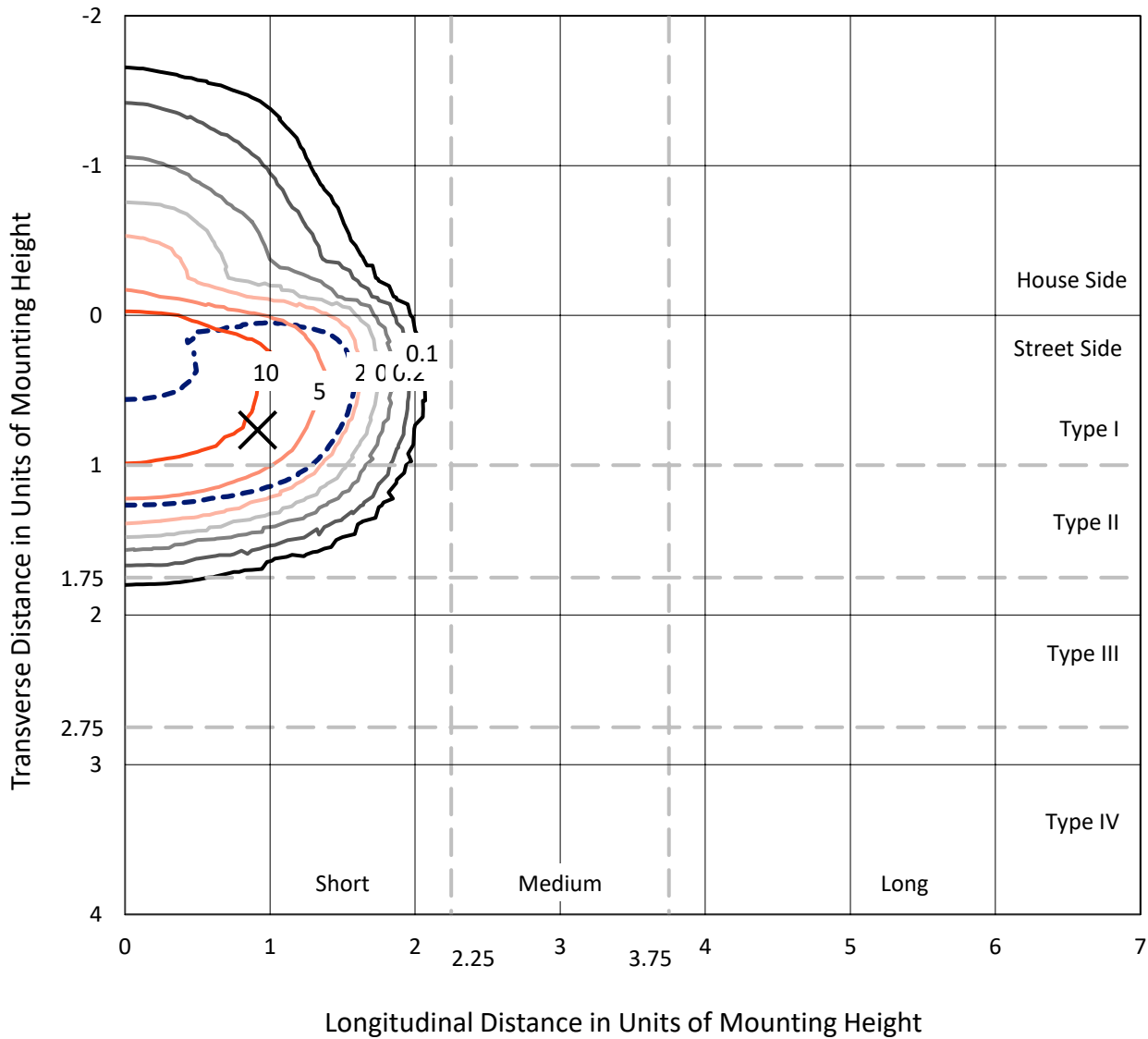
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

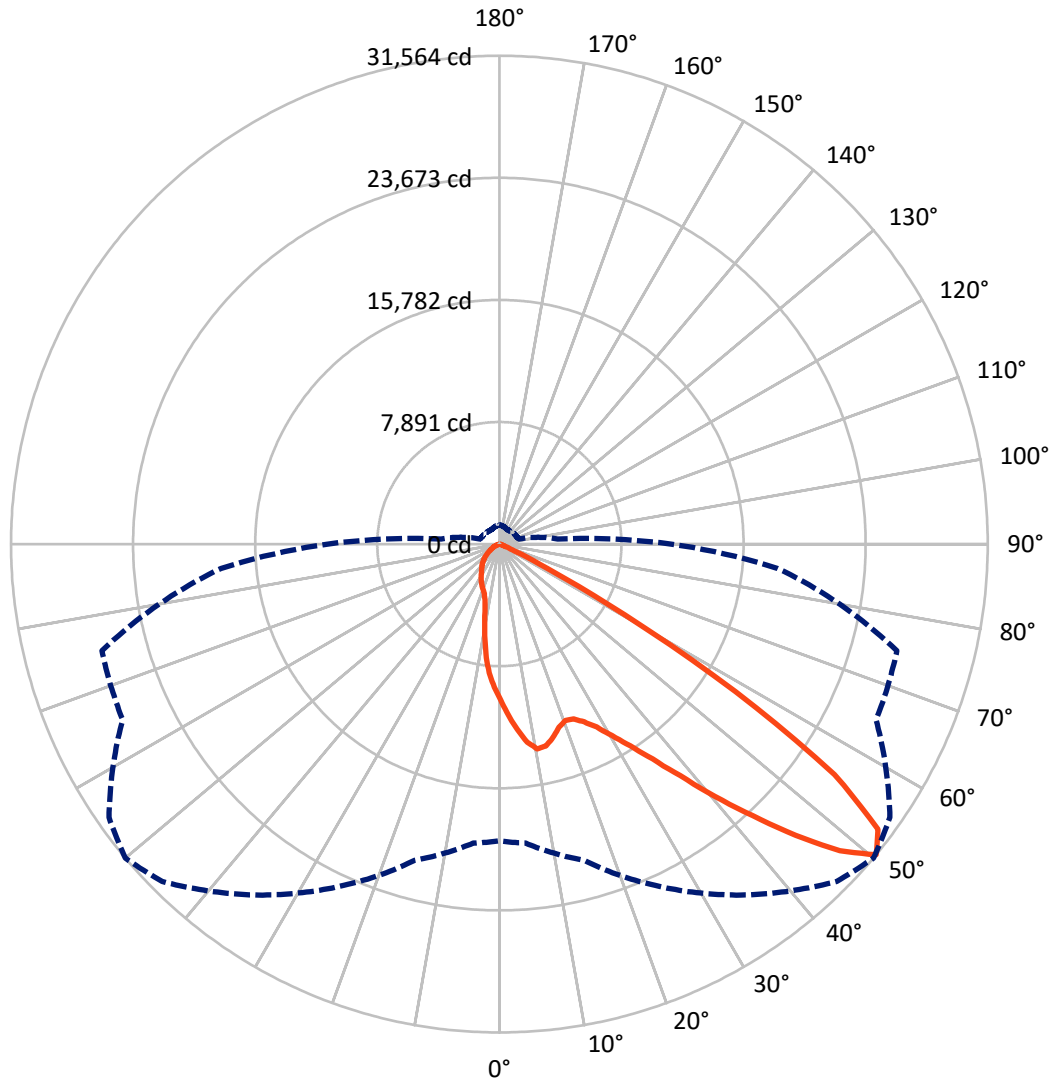
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4272.4	0.0	4272.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	28979.7	0.0	28979.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	33252.1	0.0	33252.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	934.5	2.8
10°-20°	2411.1	7.3
20°-30°	3979.2	12.0
30°-40°	6566.6	19.7
40°-50°	10389.9	31.2
50°-60°	7866.3	23.7
60°-70°	984.5	3.0
70°-80°	111.4	0.3
80°-90°	8.5	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°	33252.1	100.0
0°-180°	33252.1	100.0

Coefficient of Utilization



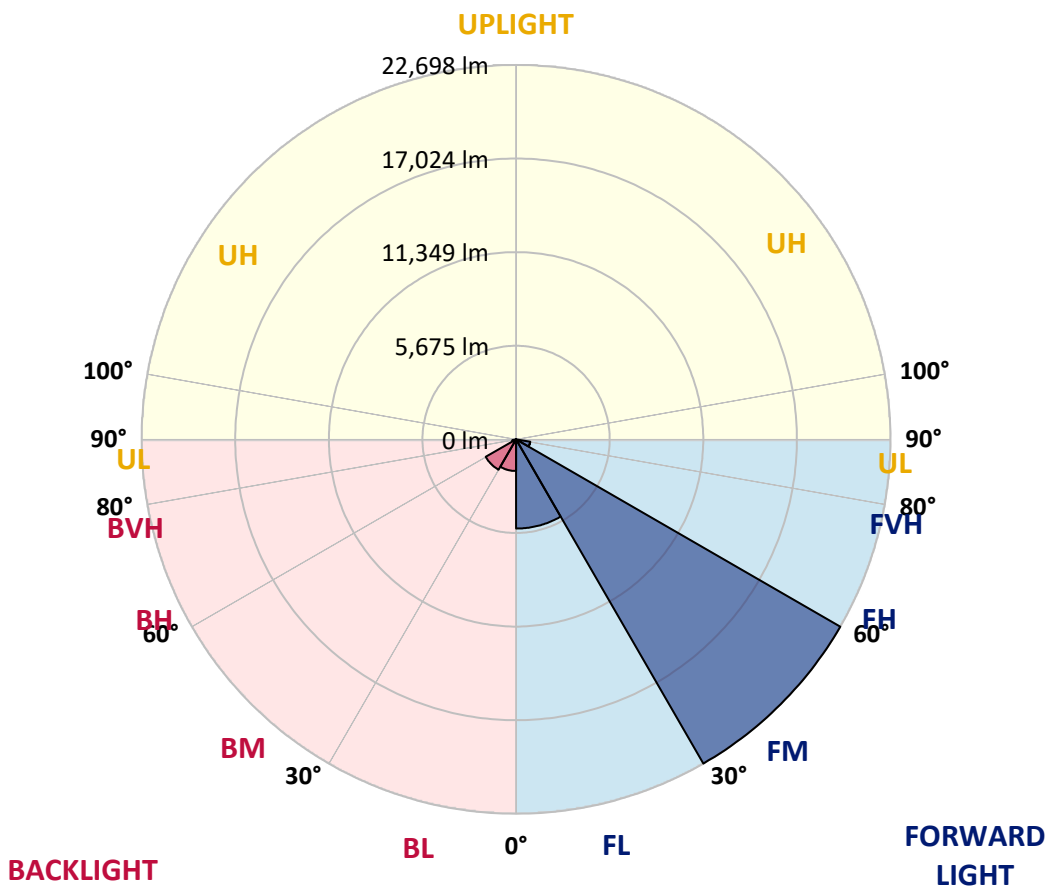
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5407.3	16.3			
FM (30°-60°)	22698.0	68.3			
FH (60°-80°)	870.4	2.6			G1/1800
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	1917.6	5.8	B3/2500		
BM (30°-60°)	2124.7	6.4	B2/2500		
BH (60°-80°)	225.5	0.7	B1/500		G1/500
BVH (80°-90°)	4.6	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	10074.1	10074.1	10074.1	10074.1	10074.1	10074.1	10074.1	10074.1	10074.1	10074.1	10074.1
2.5°	11479.3	11571.1	11545.8	11425.5	11295.7	11204.0	11061.5	11017.2	10694.4	10469.7	10232.3
5°	12865.6	12894.0	12862.4	12716.8	12488.9	12270.5	12036.3	11900.2	11359.0	10871.6	10374.7
7.5°	13197.9	13163.1	13223.2	13296.0	13264.3	13169.4	12922.5	12773.8	12128.1	11333.7	10580.5
10°	12159.8	12080.6	12305.4	12682.0	13077.6	13523.9	13460.6	13473.2	12878.2	11916.1	10849.5
12.5°	10783.0	10751.4	10919.1	11355.9	12131.3	13144.1	13387.8	13796.1	13565.0	12545.9	11156.5
15°	10178.5	10194.3	10295.6	10571.0	11128.0	12387.6	12973.2	13710.6	14179.0	13156.7	11495.1
17.5°	10270.3	10327.3	10324.1	10415.9	10754.5	11764.2	12447.8	13441.6	14653.8	13859.4	11884.4
20°	10893.8	10950.8	10865.3	10795.7	10909.6	11605.9	12172.4	13169.4	14973.4	14568.3	12295.9
22.5°	11827.5	11893.9	11691.4	11492.0	11419.2	11865.4	12276.9	13058.6	15217.1	15217.1	12663.0
25°	12957.3	13049.1	12735.8	12381.3	12178.8	12413.0	12723.1	13308.7	15467.2	15799.5	12913.0
27.5°	14220.2	14223.3	13954.3	13555.5	13175.7	13204.2	13390.9	13872.0	15742.5	16426.1	13109.3
30°	15641.2	15650.7	15293.1	14815.2	14337.3	14207.5	14365.7	14729.7	16315.4	17214.2	13381.4
32.5°	17476.9	17521.2	17008.5	16305.9	15685.5	15441.8	15533.6	15916.6	17226.9	18201.7	13789.7
35°	19958.2	20005.7	19249.3	18321.9	17334.5	16967.3	17059.1	17445.3	18546.7	19603.8	14441.7
37.5°	22407.9	22471.2	21705.3	20841.3	19486.7	18879.0	18973.9	19341.1	20527.9	21540.7	15486.1
40°	24101.2	24186.6	23949.2	23366.9	22110.4	21312.8	21426.8	21559.7	22708.6	23857.5	16840.7
42.5°	24993.7	25113.9	25215.2	25512.7	24851.3	24183.5	23990.4	23999.9	24927.2	26218.5	18249.2
45°	25047.5	25164.6	25683.6	26832.5	27335.8	27196.5	26845.2	26607.8	26620.5	27791.5	19129.0
47.5°	23306.8	23525.1	24496.8	26747.1	28639.7	29794.9	29617.7	29054.3	27332.6	27895.9	19034.1
50°	19182.8	19398.0	21164.1	24401.8	27690.2	30833.0	31564.1	30807.7	26867.3	26595.2	18056.1
52.5°	13932.1	13954.3	15100.0	18882.1	23841.6	28918.2	30640.0	30567.2	26158.4	25019.0	16720.5
55°	6617.9	6538.8	7826.9	10656.4	16489.4	23389.0	26291.3	27114.2	25151.9	23879.6	15685.5
57.5°	1927.5	1965.4	2538.3	4158.8	8247.9	14948.1	18005.5	19537.3	20645.0	19632.2	12166.1
60°	864.0	867.2	965.3	1266.0	2747.2	6953.4	9308.1	11204.0	12343.3	11438.2	6035.6
62.5°	626.7	629.8	667.8	715.3	933.7	2354.7	3490.9	4652.5	4737.9	3101.7	1528.7
65°	522.2	522.2	528.5	528.5	560.2	841.9	1060.3	1367.3	1152.0	854.5	598.2
67.5°	420.9	424.1	430.4	430.4	420.9	420.9	455.8	500.1	534.9	661.5	550.7
70°	329.2	326.0	326.0	329.2	319.7	272.2	294.3	335.5	367.1	515.9	477.9
72.5°	256.4	259.5	256.4	243.7	221.5	161.4	174.1	218.4	234.2	322.8	322.8
75°	193.1	196.2	183.6	139.3	91.8	50.6	66.5	107.6	136.1	158.2	117.1
77.5°	25.3	25.3	19.0	19.0	15.8	19.0	19.0	25.3	38.0	38.0	28.5
80°	3.2	3.2	3.2	6.3	9.5	12.7	12.7	12.7	12.7	15.8	15.8
82.5°	3.2	3.2	3.2	3.2	9.5	9.5	12.7	12.7	12.7	12.7	12.7
85°	0.0	0.0	0.0	3.2	6.3	9.5	9.5	12.7	12.7	12.7	12.7
87.5°	0.0	0.0	0.0	3.2	6.3	9.5	9.5	9.5	12.7	12.7	12.7
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°	10074.1	10074.1	10074.1	10074.1	10074.1	10074.1	10074.1	10074.1	10074.1	10074.1	10074.1
2.5°	10089.9	9906.3	9684.8	9532.9	9317.6	9175.2	8972.7	8836.6	8719.5	8627.7	8678.3
5°	10093.1	9801.9	9349.3	8963.2	8542.2	8156.1	7741.5	7415.5	7121.2	6988.2	7061.0
7.5°	10156.4	9738.6	9045.5	8358.7	7551.6	6754.0	6007.1	5399.4	5098.7	4956.3	5000.6
10°	10279.8	9710.1	8706.8	7567.4	6257.1	5168.4	4443.6	4032.2	3864.4	3775.8	3791.6
12.5°	10393.7	9691.1	8266.9	6526.1	4937.3	4010.0	3633.4	3576.4	3611.2	3614.4	3611.2
15°	10548.8	9656.3	7722.5	5456.4	3949.9	3465.6	3475.1	3557.4	3639.7	3665.0	3658.7
17.5°	10713.4	9602.5	7019.9	4430.9	3351.7	3307.4	3418.2	3528.9	3611.2	3623.9	3627.0
20°	10884.3	9491.7	6219.1	3617.5	3073.2	3187.1	3310.5	3392.8	3453.0	3472.0	3478.3
22.5°	10963.4	9257.5	5295.0	3035.2	2886.4	3038.4	3130.1	3237.8	3256.7	3187.1	3199.8
25°	10922.3	8861.9	4393.0	2642.7	2699.7	2851.6	2987.7	2933.9	2854.8	2804.2	2820.0
27.5°	10792.5	8336.5	3509.9	2354.7	2500.3	2693.4	2709.2	2649.1	2636.4	2595.3	2607.9
30°	10653.3	7732.0	2823.1	2123.7	2297.8	2500.3	2452.8	2475.0	2478.2	2430.7	2446.5
32.5°	10567.8	7099.0	2247.1	1968.6	2168.0	2206.0	2300.9	2345.2	2348.4	2237.6	2256.6
35°	10596.3	6475.5	1902.1	1842.0	2047.7	2038.2	2171.2	2196.5	2012.9	1861.0	1876.8
37.5°	10827.3	5899.5	1705.9	1743.9	1838.8	1911.6	2012.9	1845.2	1804.0	1734.4	1743.9
40°	11257.8	5408.9	1588.8	1683.8	1696.4	1813.5	1658.4	1680.6	1683.8	1639.4	1648.9
42.5°	11761.0	5000.6	1519.2	1648.9	1617.3	1636.3	1481.2	1525.5	1573.0	1554.0	1557.2
45°	12014.2	4601.9	1459.0	1528.7	1538.2	1357.8	1323.0	1370.4	1430.6	1440.1	1443.2
47.5°	11789.5	4222.1	1395.7	1354.6	1417.9	1237.5	1196.4	1212.2	1281.8	1319.8	1326.1
50°	11102.7	3785.3	1300.8	1199.5	1164.7	1110.9	1072.9	1076.1	1155.2	1221.7	1234.3
52.5°	10137.4	3329.5	1145.7	1016.0	936.8	978.0	987.5	968.5	1041.3	1107.7	1120.4
55°	9200.5	2759.8	908.3	826.1	753.3	841.9	867.2	841.9	864.0	908.3	911.5
57.5°	6478.7	1560.3	696.3	683.6	623.5	721.6	762.8	724.8	686.8	715.3	721.6
60°	3003.5	816.6	534.9	534.9	519.1	620.3	690.0	636.2	563.4	576.0	585.5
62.5°	940.0	515.9	392.5	370.3	424.1	528.5	585.5	531.7	446.3	446.3	458.9
65°	531.7	443.1	310.2	284.8	345.0	424.1	458.9	401.9	326.0	319.7	319.7
67.5°	493.7	420.9	275.4	231.0	243.7	272.2	284.8	246.9	224.7	221.5	224.7
70°	408.3	351.3	221.5	158.2	148.8	145.6	151.9	142.4	136.1	139.3	148.8
72.5°	253.2	212.1	139.3	94.9	82.3	79.1	79.1	79.1	76.0	76.0	76.0
75°	91.8	79.1	63.3	47.5	41.1	38.0	38.0	41.1	38.0	34.8	31.6
77.5°	28.5	25.3	25.3	25.3	22.2	19.0	15.8	15.8	12.7	9.5	9.5
80°	15.8	15.8	15.8	15.8	12.7	12.7	9.5	6.3	3.2	3.2	0.0
82.5°	15.8	15.8	15.8	12.7	12.7	12.7	9.5	6.3	3.2	0.0	0.0
85°	12.7	12.7	12.7	12.7	12.7	12.7	9.5	6.3	3.2	0.0	0.0
87.5°	12.7	12.7	12.7	12.7	12.7	12.7	9.5	6.3	3.2	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)