

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: P638280

Luminaire Tested: GWS-SA4E-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638280
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-SA4E-740-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19193.7 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

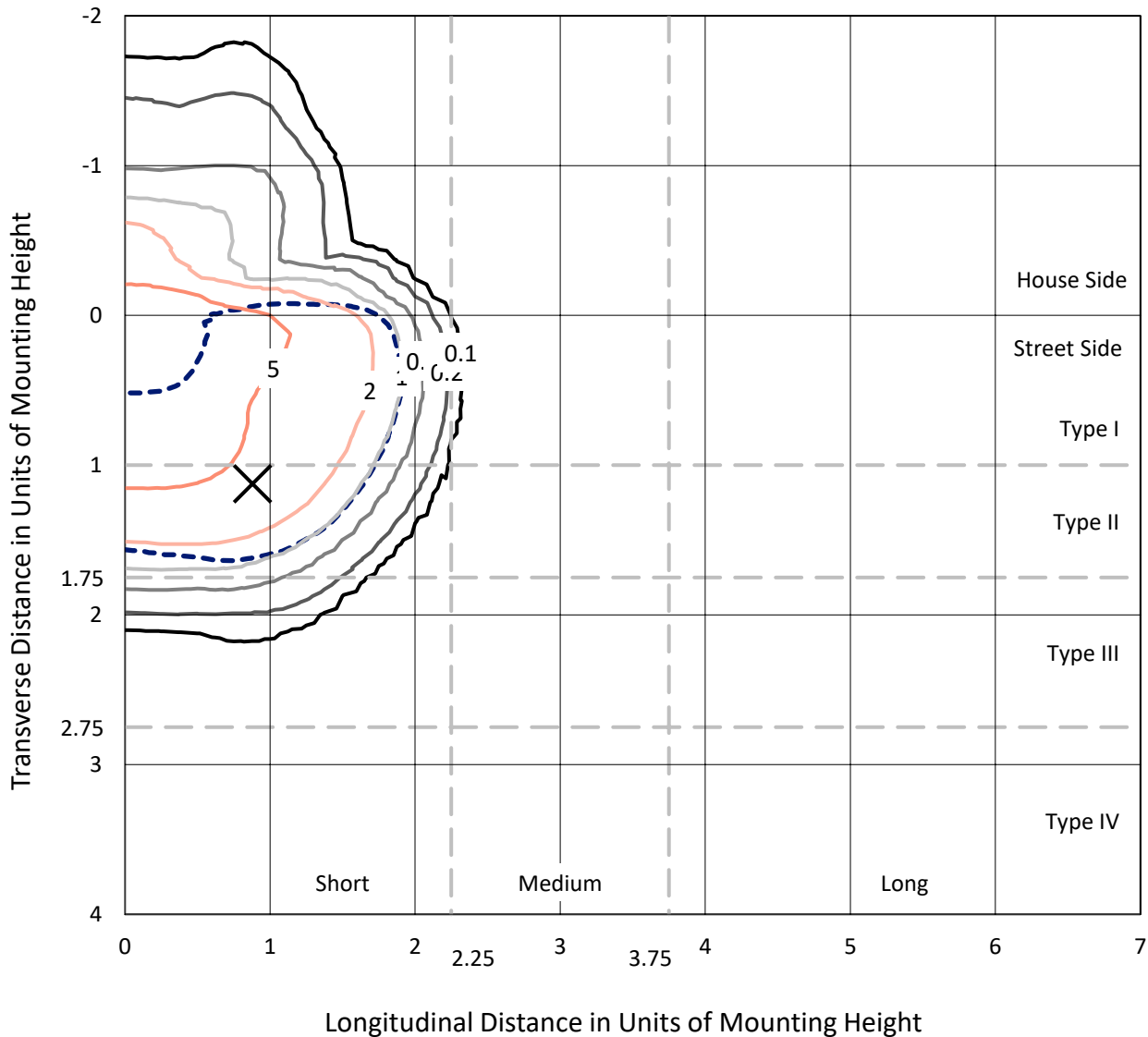
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

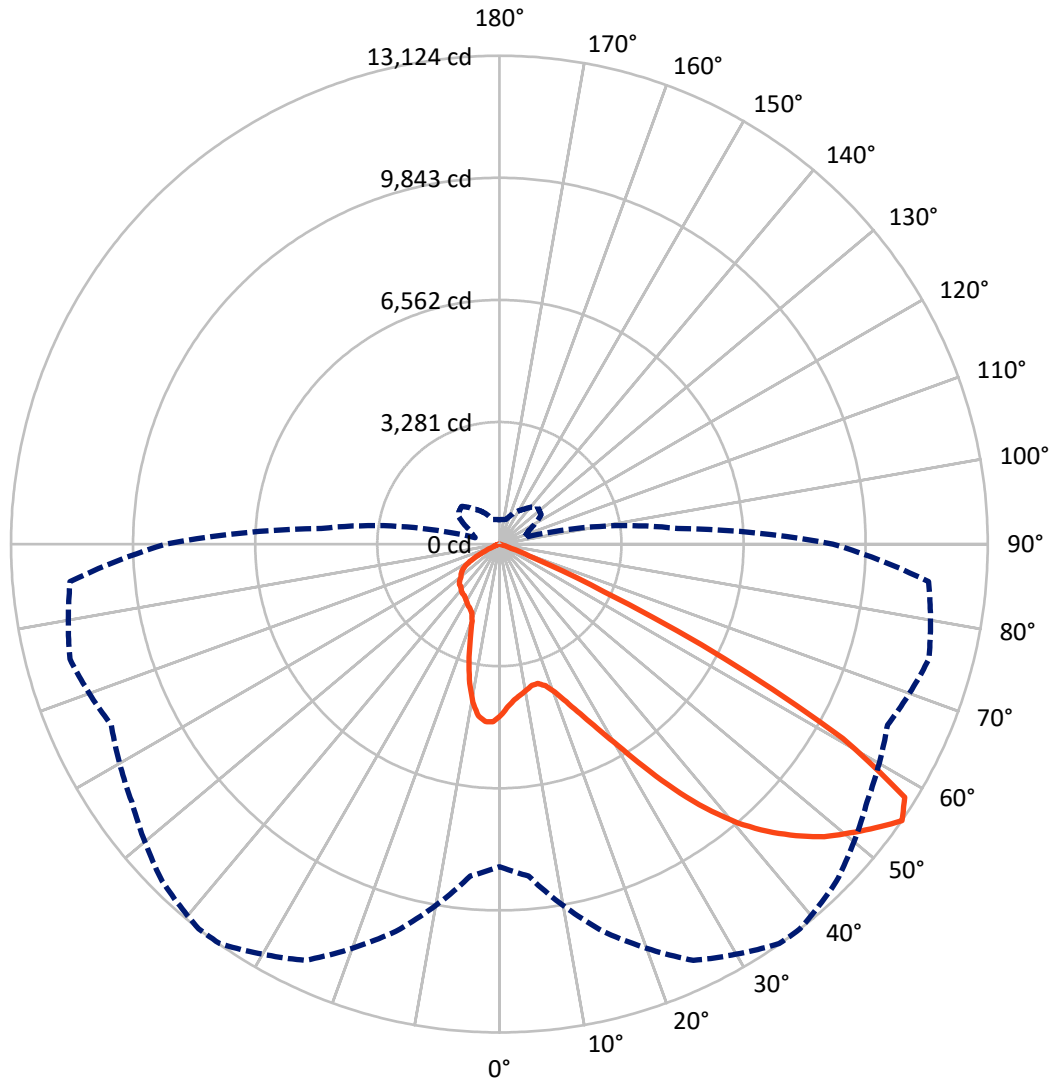
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	3739.5	0.0	3739.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	15454.2	0.0	15454.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	19193.7	0.0	19193.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.6	2.2
10°-20°	1145.7	6.0
20°-30°	1966.2	10.2
30°-40°	3261.0	17.0
40°-50°	4793.8	25.0
50°-60°	5601.7	29.2
60°-70°	1898.8	9.9
70°-80°	97.1	0.5
80°-90°	3.8	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°	19193.7	100.0
0°-180°	19193.7	100.0

Coefficient of Utilization



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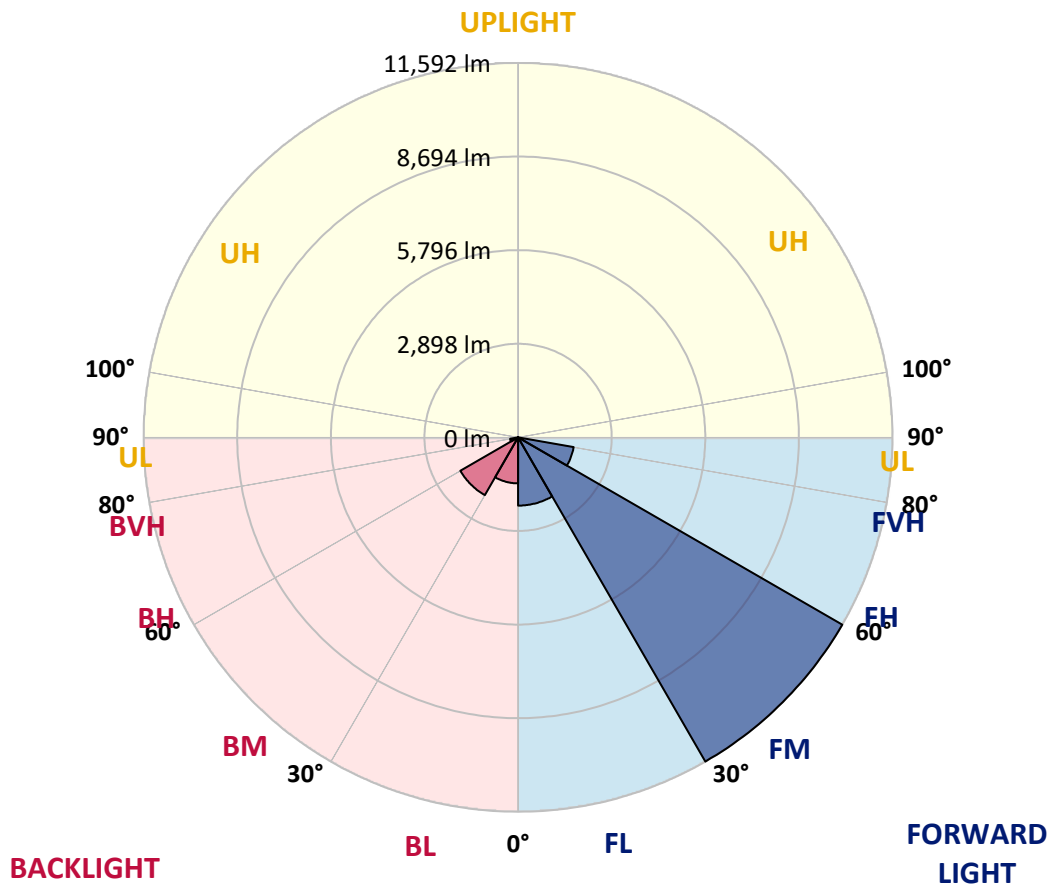
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2112.8	11.0			
FM (30°-60°)	11592.5	60.4			
FH (60°-80°)	1746.9	9.1			G1/1800
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	1424.7	7.4	B3/2500		
BM (30°-60°)	2064.1	10.8	B2/2500		
BH (60°-80°)	249.0	1.3	B1/500		G1/500
BVH (80°-90°)	1.8	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°	38°	45°	55°	65°	75°	85°
0°	4602.8	4602.8	4602.8	4602.8	4602.8	4602.8	4602.8	4602.8	4602.8	4602.8	4602.8
2.5°	4286.9	4278.1	4295.7	4330.8	4363.7	4374.6	4407.5	4453.6	4482.1	4550.1	4605.0
5°	4093.8	4089.4	4107.0	4137.7	4181.6	4196.9	4247.4	4324.2	4401.0	4519.4	4635.7
7.5°	3918.3	3916.1	3942.4	4010.4	4074.1	4093.8	4155.2	4249.6	4352.7	4534.8	4705.9
10°	3687.9	3690.1	3740.6	3837.1	3953.4	3992.9	4091.6	4227.6	4361.5	4596.2	4833.2
12.5°	3613.3	3617.7	3644.1	3718.7	3845.9	3896.4	4034.6	4240.8	4411.9	4684.0	4997.7
15°	3795.4	3795.4	3773.5	3782.3	3839.3	3885.4	4030.2	4284.7	4497.5	4789.3	5160.0
17.5°	4148.7	4135.5	4080.6	4006.1	3986.3	4001.7	4117.9	4379.0	4618.2	4912.1	5344.3
20°	4626.9	4631.3	4523.8	4368.0	4243.0	4240.8	4311.0	4545.8	4791.5	5059.1	5544.0
22.5°	5206.1	5188.6	5046.0	4833.2	4616.0	4598.4	4626.9	4800.2	5041.6	5291.7	5789.7
25°	5877.5	5868.7	5666.8	5381.6	5094.2	5052.5	5052.5	5223.7	5399.2	5623.0	6083.7
27.5°	6579.5	6579.5	6384.2	6055.2	5673.4	5598.8	5587.9	5789.7	5906.0	5949.8	6331.6
30°	7301.3	7292.5	7099.5	6761.6	6353.5	6276.7	6246.0	6395.2	6478.6	6346.9	6640.9
32.5°	8034.1	8049.4	7854.2	7540.4	7176.2	7125.8	7031.4	7031.4	7099.5	6915.2	7128.0
35°	8821.7	8817.3	8663.7	8450.9	8139.4	8082.3	7926.6	7683.0	7786.1	7705.0	7801.5
37.5°	9517.1	9550.0	9475.4	9317.5	9065.2	9008.1	8751.5	8310.5	8389.5	8516.7	8602.3
40°	10223.6	10249.9	10324.5	10274.0	9955.9	9850.6	9394.3	8670.3	8758.0	9194.6	9440.3
42.5°	10916.8	10930.0	11081.4	11164.7	10739.1	10554.8	9881.3	8889.7	8981.8	9725.5	10155.5
45°	11357.8	11386.3	11636.4	11890.9	11430.2	11177.9	10304.7	9170.5	9210.0	10094.1	10684.3
47.5°	11340.3	11406.1	11875.6	12338.5	12024.8	11752.7	10813.7	9620.2	9554.4	10440.8	11033.1
50°	10987.0	11066.0	11739.5	12474.5	12452.6	12200.3	11379.7	10271.8	10065.6	10747.9	11077.0
52.5°	10254.3	10482.4	11500.4	12492.1	12797.0	12669.8	12079.6	11149.4	10756.7	11188.9	11147.2
55°	8670.3	8951.1	10774.2	12342.9	13108.5	13123.9	12814.6	12064.2	11507.0	11948.0	11579.4
57.5°	6581.7	6805.5	8292.9	10987.0	12593.0	12845.3	13099.8	12546.9	11969.9	12465.7	11680.3
60°	3966.6	4225.4	5193.0	8062.6	10170.9	10600.9	11599.1	11491.6	10796.2	11009.0	9578.6
62.5°	1608.1	1744.1	2397.9	4442.6	6401.8	6803.3	7759.8	7922.2	7751.0	7533.8	5809.4
65°	588.0	642.8	960.9	1836.3	2944.2	3091.2	3595.8	3883.2	4120.1	3508.0	2161.0
67.5°	364.2	399.3	625.3	943.4	1070.6	996.0	1013.6	1208.8	1154.0	713.0	386.1
70°	269.8	298.4	489.2	653.8	432.2	333.5	226.0	241.3	217.2	190.9	188.7
72.5°	186.5	212.8	366.4	386.1	166.7	118.5	83.4	116.3	131.6	129.4	133.8
75°	122.9	142.6	230.4	151.4	41.7	32.9	28.5	61.4	79.0	79.0	81.2
77.5°	72.4	83.4	81.2	30.7	8.8	8.8	6.6	11.0	17.6	19.7	24.1
80°	8.8	6.6	4.4	4.4	4.4	4.4	4.4	4.4	6.6	6.6	6.6
82.5°	2.2	2.2	2.2	4.4	4.4	4.4	4.4	4.4	4.4	6.6	6.6
85°	0.0	0.0	2.2	2.2	4.4	4.4	4.4	4.4	4.4	6.6	6.6
87.5°	0.0	0.0	2.2	2.2	4.4	4.4	4.4	4.4	4.4	6.6	6.6
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°	4602.8	4602.8	4602.8	4602.8	4602.8	4602.8	4602.8	4602.8	4602.8	4602.8	4602.8
2.5°	4646.7	4631.3	4694.9	4741.0	4778.3	4795.9	4771.7	4769.5	4769.5	4721.3	4708.1
5°	4701.5	4708.1	4798.1	4837.5	4844.1	4822.2	4767.3	4730.0	4708.1	4657.6	4629.1
7.5°	4806.8	4828.8	4914.3	4907.7	4848.5	4747.6	4602.8	4490.9	4418.5	4339.5	4291.3
10°	4958.2	4999.9	5052.5	4960.4	4771.7	4515.0	4216.7	4003.9	3876.6	3786.7	3731.8
12.5°	5142.5	5184.2	5166.6	4949.4	4556.7	4098.2	3714.3	3407.1	3260.1	3179.0	3121.9
15°	5329.0	5355.3	5241.2	4817.8	4177.2	3560.7	3132.9	2827.9	2648.0	2582.2	2534.0
17.5°	5519.8	5513.3	5254.4	4558.9	3670.4	2955.2	2534.0	2325.5	2275.1	2264.1	2259.7
20°	5719.5	5660.3	5201.7	4188.1	3060.5	2356.2	2117.1	2130.3	2222.4	2266.3	2275.1
22.5°	5947.7	5798.5	5070.1	3685.7	2437.4	1963.5	1987.7	2117.1	2242.2	2301.4	2310.2
25°	6191.2	5925.7	4850.7	3040.7	1921.9	1805.6	1948.2	2097.4	2231.2	2303.6	2312.4
27.5°	6351.3	5956.4	4490.9	2391.3	1649.8	1744.1	1895.5	2038.1	2176.3	2255.3	2266.3
30°	6524.7	5943.3	4001.7	1842.9	1557.7	1691.5	1823.1	1952.6	2079.8	2167.6	2176.3
32.5°	6779.1	5934.5	3404.9	1496.2	1520.4	1649.8	1746.3	1853.8	1941.6	1992.1	1985.5
35°	7112.6	5923.5	2709.5	1349.2	1498.4	1616.9	1693.7	1744.1	1647.6	1616.9	1623.5
37.5°	7540.4	5949.8	2123.7	1287.8	1491.9	1608.1	1673.9	1529.1	1380.0	1322.9	1314.1
40°	8014.3	6017.9	1619.1	1263.7	1513.8	1630.1	1599.4	1360.2	1175.9	1064.0	1039.9
42.5°	8490.4	6092.5	1281.2	1254.9	1551.1	1691.5	1476.5	1237.4	960.9	897.3	888.5
45°	8843.6	6079.3	1107.9	1239.6	1584.0	1726.6	1443.6	1061.8	857.8	829.3	831.5
47.5°	9021.3	5934.5	1013.6	1204.4	1597.2	1691.5	1362.4	989.4	787.6	818.3	844.7
50°	8927.0	5559.3	925.8	1136.4	1568.6	1645.4	1233.0	934.6	752.5	879.8	939.0
52.5°	8812.9	5098.6	829.3	1031.1	1500.6	1581.8	1182.5	919.2	730.6	849.0	892.9
55°	8964.3	4806.8	671.3	868.8	1366.8	1432.6	1143.0	917.0	680.1	660.4	653.8
57.5°	8751.5	4225.4	480.5	625.3	1048.7	1134.2	1114.5	901.7	603.3	601.1	609.9
60°	6763.8	2577.8	329.1	397.1	642.8	724.0	1011.4	862.2	520.0	478.3	480.5
62.5°	3843.7	1096.9	226.0	245.7	329.1	390.5	772.3	783.2	480.5	456.3	480.5
65°	1338.3	392.7	175.5	164.5	182.1	208.4	443.2	605.5	436.6	394.9	399.3
67.5°	276.4	195.3	155.8	136.0	136.0	136.0	226.0	377.4	359.8	313.7	318.1
70°	175.5	166.7	136.0	116.3	111.9	103.1	129.4	208.4	247.9	228.2	230.4
72.5°	129.4	127.2	107.5	94.3	83.4	74.6	81.2	103.1	127.2	131.6	133.8
75°	79.0	81.2	70.2	59.2	52.7	46.1	48.3	48.3	48.3	43.9	48.3
77.5°	24.1	26.3	21.9	17.6	15.4	15.4	15.4	13.2	11.0	6.6	6.6
80°	6.6	6.6	6.6	6.6	6.6	4.4	4.4	2.2	2.2	0.0	0.0
82.5°	6.6	6.6	6.6	6.6	4.4	4.4	2.2	2.2	0.0	0.0	0.0
85°	6.6	6.6	6.6	6.6	4.4	4.4	2.2	2.2	0.0	0.0	0.0
87.5°	6.6	6.6	6.6	6.6	4.4	4.4	2.2	2.2	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)