

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: P638352

Luminaire Tested: GWS-SA4E-760-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638352
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-SA4E-760-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23253.3 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

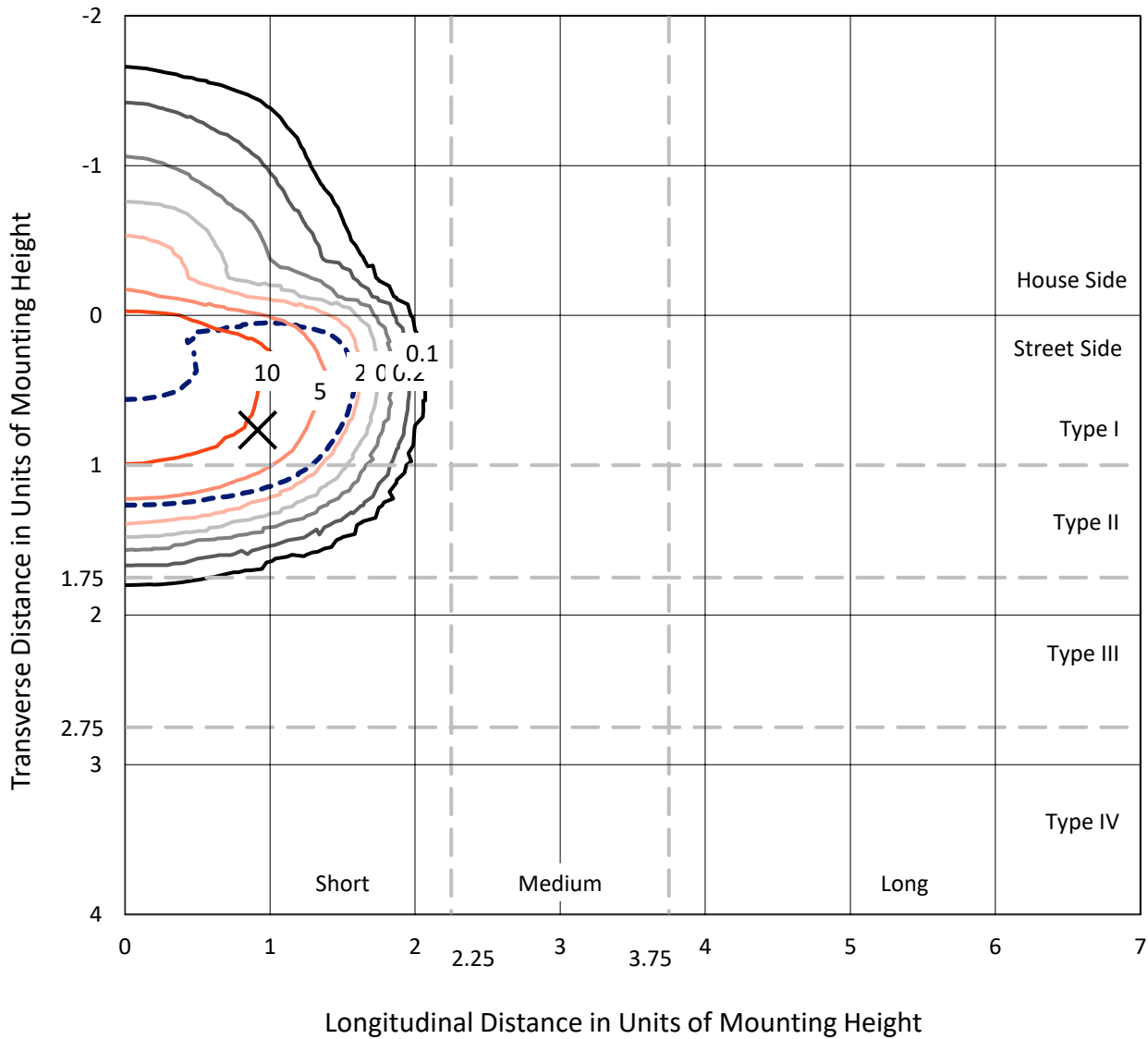
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

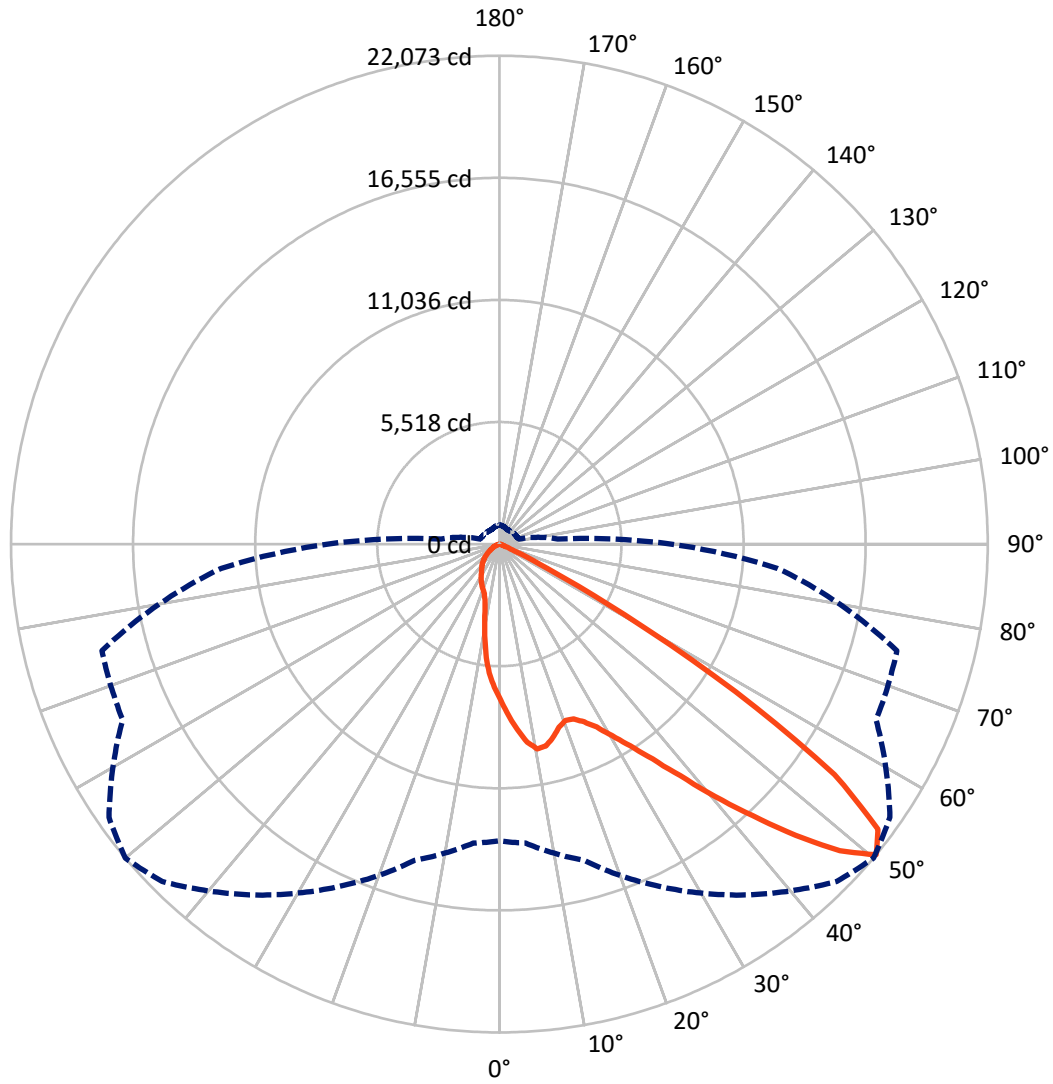
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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	2987.7	0.0	2987.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	20265.6	0.0	20265.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	23253.3	0.0	23253.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.5	2.8
10°-20°	1686.1	7.3
20°-30°	2782.7	12.0
30°-40°	4592.0	19.7
40°-50°	7265.7	31.2
50°-60°	5500.9	23.7
60°-70°	688.5	3.0
70°-80°	77.9	0.3
80°-90°	6.0	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°	23253.3	100.0
0°-180°	23253.3	100.0

Coefficient of Utilization



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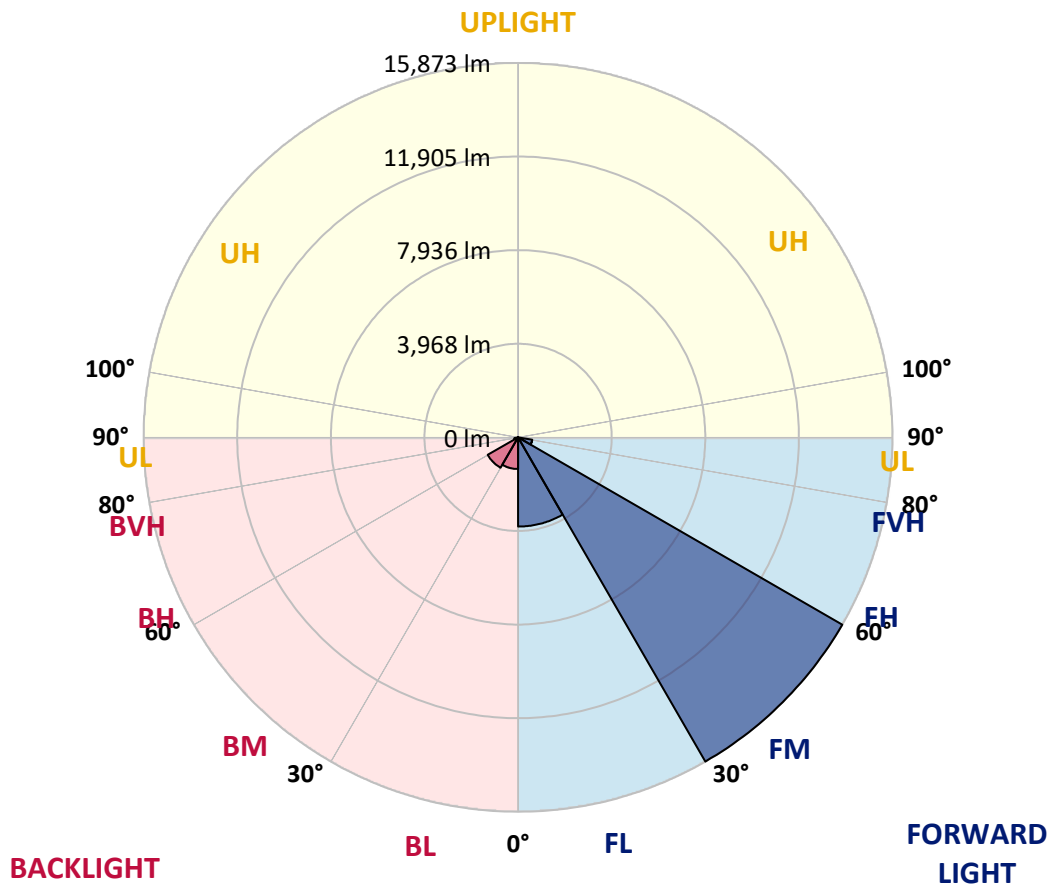
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3781.3	16.3			
FM (30°-60°)	15872.8	68.3			
FH (60°-80°)	608.7	2.6			G0/660
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	1341.0	5.8	B3/2500		
BM (30°-60°)	1485.8	6.4	B2/2500		
BH (60°-80°)	157.7	0.7	B1/500		G1/500
BVH (80°-90°)	3.2	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°	7044.8	7044.8	7044.8	7044.8	7044.8	7044.8	7044.8	7044.8	7044.8	7044.8	7044.8
2.5°	8027.5	8091.7	8074.0	7989.9	7899.1	7835.0	7735.4	7704.4	7478.6	7321.5	7155.5
5°	8996.9	9016.8	8994.7	8892.9	8733.5	8580.8	8417.1	8321.9	7943.4	7602.6	7255.1
7.5°	9229.3	9205.0	9247.0	9297.9	9275.8	9209.4	9036.8	8932.7	8481.2	7925.7	7398.9
10°	8503.4	8448.0	8605.2	8868.6	9145.2	9457.3	9413.0	9421.9	9005.8	8332.9	7587.1
12.5°	7540.6	7518.5	7635.8	7941.2	8483.4	9191.7	9362.1	9647.6	9486.1	8773.4	7801.8
15°	7117.9	7128.9	7199.8	7392.3	7781.8	8662.7	9072.2	9587.9	9915.4	9200.5	8038.6
17.5°	7182.0	7221.9	7219.7	7283.9	7520.7	8226.7	8704.8	9399.7	10247.4	9691.9	8310.8
20°	7618.1	7657.9	7598.1	7549.5	7629.1	8116.0	8512.2	9209.4	10471.0	10187.7	8598.5
22.5°	8271.0	8317.5	8175.8	8036.4	7985.5	8297.5	8585.3	9131.9	10641.4	10641.4	8855.3
25°	9061.1	9125.3	8906.2	8658.3	8516.6	8680.4	8897.3	9306.8	10816.2	11048.6	9030.1
27.5°	9944.2	9946.4	9758.3	9479.4	9213.8	9233.7	9364.3	9700.7	11008.8	11486.9	9167.3
30°	10938.0	10944.6	10694.5	10360.3	10026.1	9935.4	10046.0	10300.5	11409.4	12038.0	9357.7
32.5°	12221.7	12252.6	11894.1	11402.7	10968.9	10798.5	10862.7	11130.5	12046.8	12728.5	9643.2
35°	13956.9	13990.1	13461.1	12812.6	12122.1	11865.3	11929.5	12199.5	12969.7	13709.0	10099.1
37.5°	15669.9	15714.2	15178.6	14574.4	13627.1	13202.1	13268.5	13525.3	14355.2	15063.5	10829.5
40°	16854.0	16913.8	16747.8	16340.5	15461.9	14904.1	14983.8	15076.8	15880.2	16683.6	11776.8
42.5°	17478.2	17562.3	17633.1	17841.1	17378.6	16911.6	16776.6	16783.2	17431.7	18334.7	12761.7
45°	17515.8	17597.7	17960.7	18764.1	19116.0	19018.6	18772.9	18606.9	18615.8	19434.7	13377.0
47.5°	16298.5	16451.2	17130.7	18704.3	20027.8	20835.7	20711.7	20317.8	19113.8	19507.7	13310.6
50°	13414.6	13565.1	14800.1	17064.3	19363.9	21561.6	22072.9	21543.9	18788.4	18598.1	12626.7
52.5°	9742.8	9758.3	10559.5	13204.3	16672.5	20222.6	21426.6	21375.7	18292.6	17495.9	11692.7
55°	4627.9	4572.6	5473.4	7452.1	11531.1	16356.0	18385.6	18961.0	17588.8	16699.1	10968.9
57.5°	1347.9	1374.4	1775.0	2908.2	5767.8	10453.3	12591.3	13662.5	14437.1	13728.9	8507.8
60°	604.2	606.4	675.0	885.3	1921.1	4862.5	6509.2	7835.0	8631.7	7998.7	4220.7
62.5°	438.2	440.4	467.0	500.2	652.9	1646.7	2441.2	3253.5	3313.3	2169.0	1069.0
65°	365.2	365.2	369.6	369.6	391.7	588.7	741.4	956.1	805.6	597.6	418.3
67.5°	294.4	296.6	301.0	301.0	294.4	294.4	318.7	349.7	374.0	462.6	385.1
70°	230.2	228.0	228.0	230.2	223.5	190.3	205.8	234.6	256.7	360.8	334.2
72.5°	179.3	181.5	179.3	170.4	154.9	112.9	121.7	152.7	163.8	225.8	225.8
75°	135.0	137.2	128.4	97.4	64.2	35.4	46.5	75.3	95.2	110.7	81.9
77.5°	17.7	17.7	13.3	13.3	11.1	13.3	13.3	17.7	26.6	26.6	19.9
80°	2.2	2.2	2.2	4.4	6.6	8.9	8.9	8.9	8.9	11.1	11.1
82.5°	2.2	2.2	2.2	2.2	6.6	6.6	8.9	8.9	8.9	8.9	8.9
85°	0.0	0.0	0.0	2.2	4.4	6.6	6.6	8.9	8.9	8.9	8.9
87.5°	0.0	0.0	0.0	2.2	4.4	6.6	6.6	6.6	8.9	8.9	8.9
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°	7044.8	7044.8	7044.8	7044.8	7044.8	7044.8	7044.8	7044.8	7044.8	7044.8	7044.8
2.5°	7055.9	6927.5	6772.6	6666.4	6515.9	6416.3	6274.6	6179.4	6097.5	6033.4	6068.8
5°	7058.1	6854.5	6538.0	6268.0	5973.6	5703.6	5413.6	5185.7	4979.8	4886.9	4937.8
7.5°	7102.4	6810.2	6325.5	5845.2	5280.9	4723.1	4200.8	3775.8	3565.6	3466.0	3497.0
10°	7188.7	6790.3	6088.7	5291.9	4375.6	3614.3	3107.4	2819.7	2702.4	2640.4	2651.5
12.5°	7268.4	6777.0	5781.1	4563.8	3452.7	2804.2	2540.8	2501.0	2525.3	2527.5	2525.3
15°	7376.8	6752.7	5400.4	3815.7	2762.2	2423.5	2430.2	2487.7	2545.3	2563.0	2558.5
17.5°	7491.9	6715.0	4909.0	3098.6	2343.8	2312.9	2390.3	2467.8	2525.3	2534.2	2536.4
20°	7611.4	6637.6	4349.1	2529.8	2149.1	2228.8	2315.1	2372.6	2414.7	2428.0	2432.4
22.5°	7666.8	6473.8	3702.8	2122.5	2018.5	2124.7	2188.9	2264.2	2277.5	2228.8	2237.6
25°	7638.0	6197.1	3072.0	1848.1	1887.9	1994.2	2089.3	2051.7	1996.4	1961.0	1972.0
27.5°	7547.2	5829.7	2454.5	1646.7	1748.5	1883.5	1894.6	1852.5	1843.7	1814.9	1823.7
30°	7449.9	5407.0	1974.2	1485.1	1606.8	1748.5	1715.3	1730.8	1733.0	1699.8	1710.9
32.5°	7390.1	4964.4	1571.4	1376.7	1516.1	1542.6	1609.0	1640.0	1642.2	1564.8	1578.1
35°	7410.0	4528.3	1330.2	1288.1	1432.0	1425.3	1518.3	1536.0	1407.6	1301.4	1312.5
37.5°	7571.6	4125.5	1193.0	1219.5	1285.9	1336.8	1407.6	1290.3	1261.6	1212.9	1219.5
40°	7872.6	3782.5	1111.1	1177.5	1186.3	1268.2	1159.8	1175.2	1177.5	1146.5	1153.1
42.5°	8224.5	3497.0	1062.4	1153.1	1131.0	1144.3	1035.8	1066.8	1100.0	1086.7	1088.9
45°	8401.6	3218.1	1020.3	1069.0	1075.6	949.5	925.1	958.3	1000.4	1007.0	1009.2
47.5°	8244.4	2952.5	976.1	947.3	991.5	865.4	836.6	847.7	896.4	922.9	927.4
50°	7764.1	2647.1	909.7	838.8	814.5	776.9	750.3	752.5	807.8	854.3	863.2
52.5°	7089.1	2328.4	801.2	710.5	655.1	683.9	690.5	677.3	728.2	774.6	783.5
55°	6434.0	1930.0	635.2	577.7	526.8	588.7	606.4	588.7	604.2	635.2	637.4
57.5°	4530.6	1091.1	486.9	478.1	436.0	504.6	533.4	506.8	480.3	500.2	504.6
60°	2100.4	571.0	374.0	374.0	363.0	433.8	482.5	444.9	394.0	402.8	409.5
62.5°	657.3	360.8	274.4	259.0	296.6	369.6	409.5	371.8	312.1	312.1	320.9
65°	371.8	309.9	216.9	199.2	241.2	296.6	320.9	281.1	228.0	223.5	223.5
67.5°	345.3	294.4	192.6	161.6	170.4	190.3	199.2	172.6	157.1	154.9	157.1
70°	285.5	245.7	154.9	110.7	104.0	101.8	106.2	99.6	95.2	97.4	104.0
72.5°	177.1	148.3	97.4	66.4	57.5	55.3	55.3	55.3	53.1	53.1	53.1
75°	64.2	55.3	44.3	33.2	28.8	26.6	26.6	28.8	26.6	24.3	22.1
77.5°	19.9	17.7	17.7	17.7	15.5	13.3	11.1	11.1	8.9	6.6	6.6
80°	11.1	11.1	11.1	11.1	8.9	8.9	6.6	4.4	2.2	2.2	0.0
82.5°	11.1	11.1	11.1	8.9	8.9	8.9	6.6	4.4	2.2	0.0	0.0
85°	8.9	8.9	8.9	8.9	8.9	8.9	6.6	4.4	2.2	0.0	0.0
87.5°	8.9	8.9	8.9	8.9	8.9	8.9	6.6	4.4	2.2	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)