

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: P638763

Luminaire Tested: GWS-SA4F-740-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-740-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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: 20210.6 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

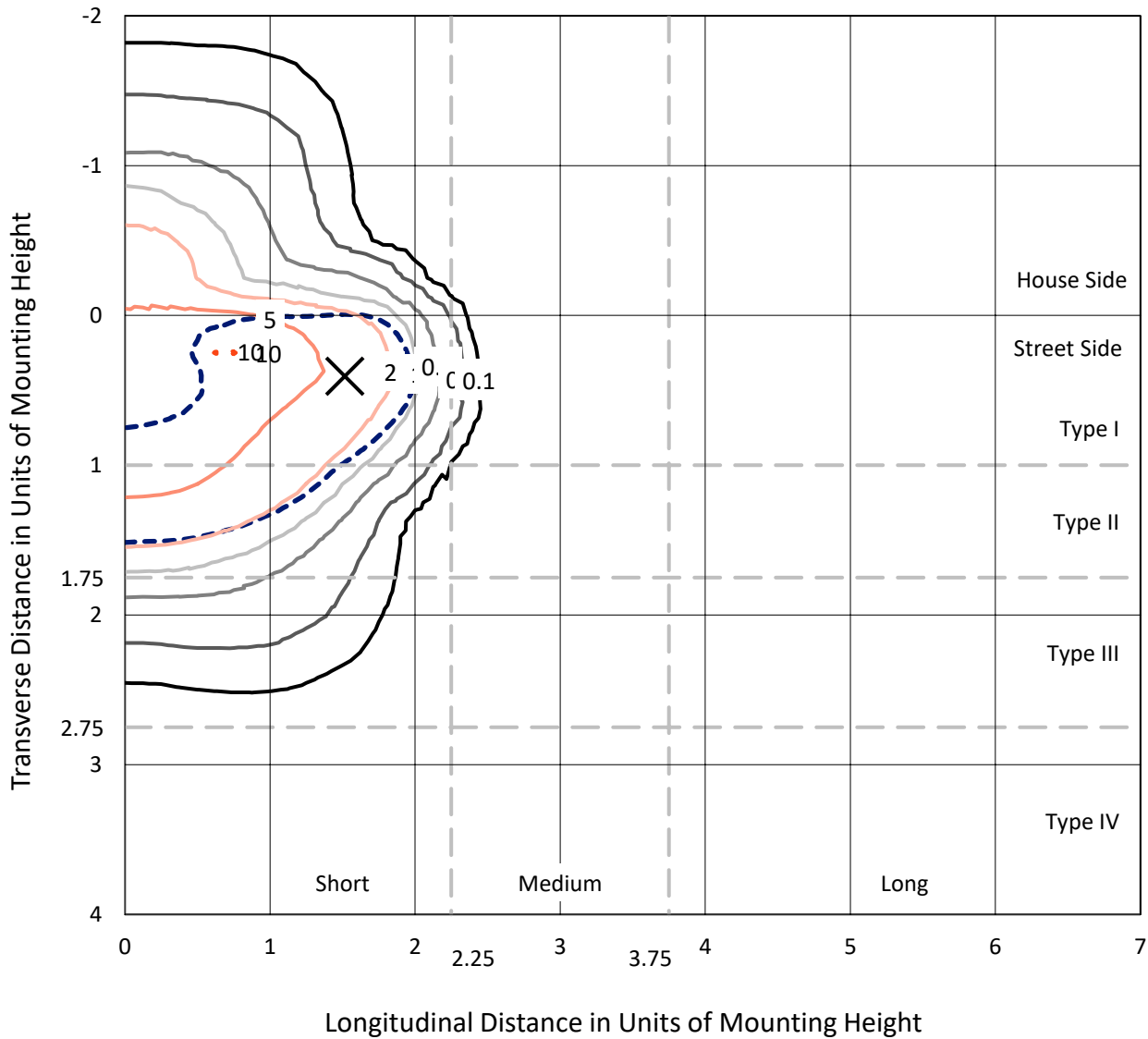
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

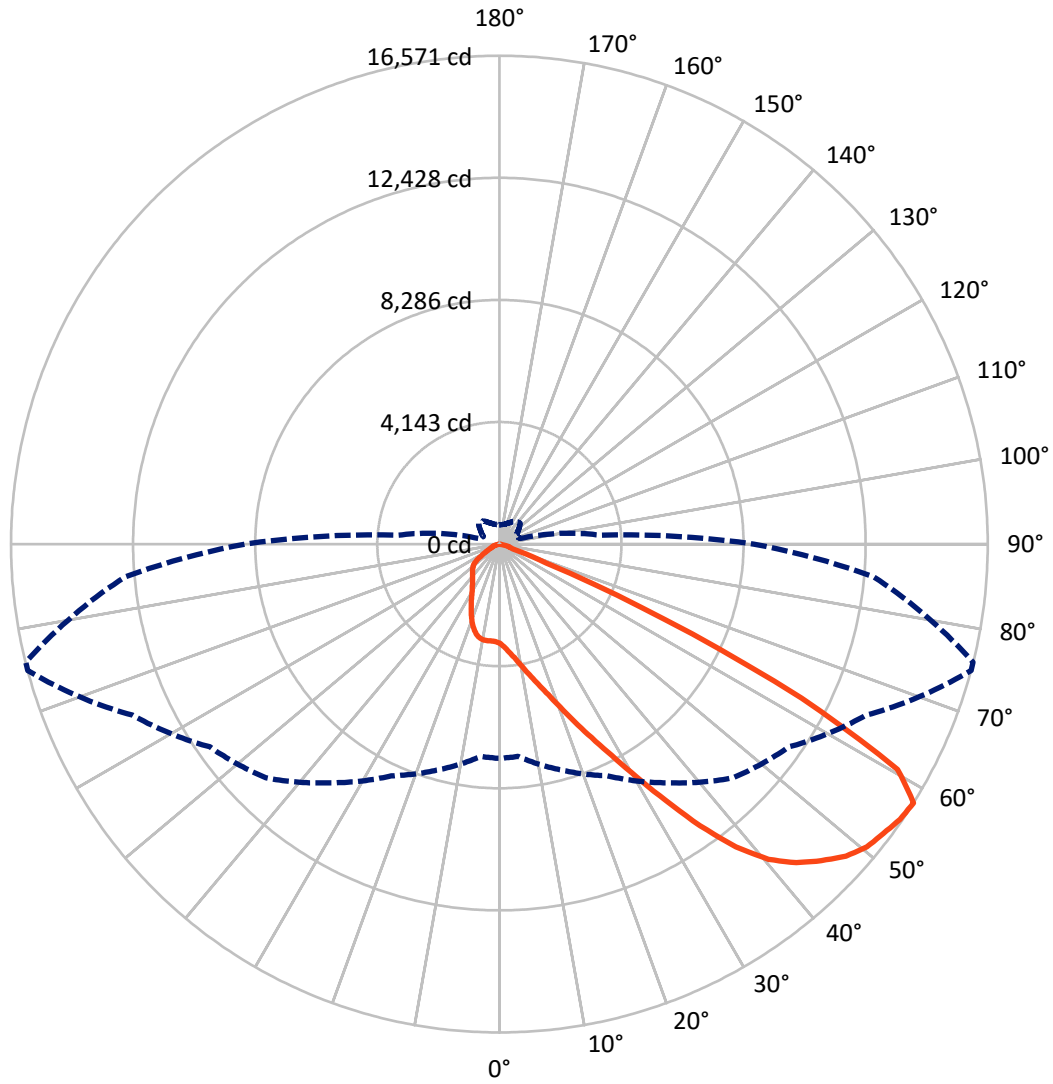
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3301.4	0.0	3301.4
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	16909.2	0.0	16909.2
	% Fixture	83.7	0.0	83.7
Total	Lumens	20210.6	0.0	20210.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.0	1.7
10°-20°	1114.3	5.5
20°-30°	2040.5	10.1
30°-40°	3385.3	16.8
40°-50°	5170.2	25.6
50°-60°	5809.6	28.7
60°-70°	2142.8	10.6
70°-80°	204.8	1.0
80°-90°	0.2	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°	20210.6	100.0
0°-180°	20210.6	100.0

Coefficient of Utilization



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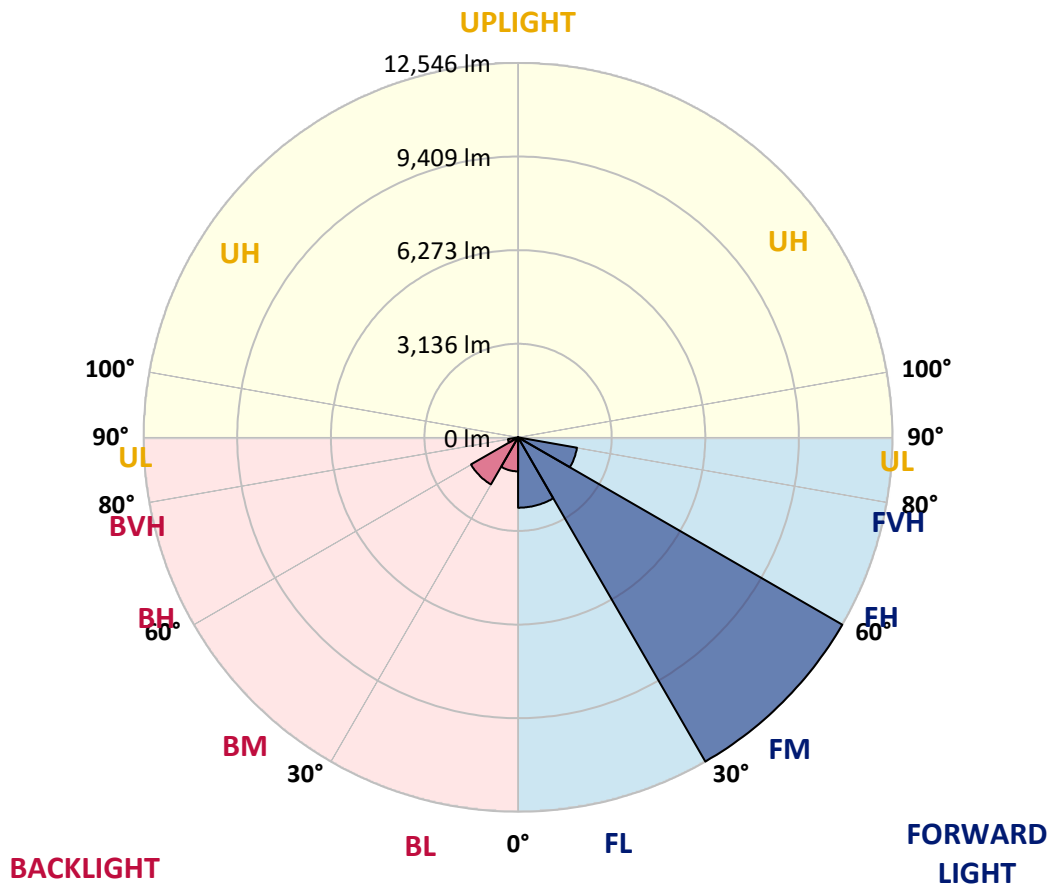
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2358.5	11.7			
FM (30°-60°)	12545.8	62.1			
FH (60°-80°)	2004.8	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1139.2	5.6	B3/2500		
BM (30°-60°)	1819.3	9.0	B2/2500		
BH (60°-80°)	342.8	1.7	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°	55°	65°	75°	76°	85°
0°	3370.8	3370.8	3370.8	3370.8	3370.8	3370.8	3370.8	3370.8	3370.8	3370.8	3370.8
2.5°	3766.0	3805.0	3792.8	3768.4	3753.8	3702.6	3670.9	3578.2	3512.3	3505.0	3444.0
5°	4241.6	4234.3	4224.5	4195.3	4170.9	4090.4	3995.3	3839.2	3700.1	3683.1	3553.8
7.5°	4502.6	4507.5	4512.3	4507.5	4490.4	4429.4	4324.5	4141.6	3929.4	3914.8	3709.9
10°	4609.9	4619.7	4644.1	4690.4	4731.9	4727.0	4666.0	4478.2	4217.2	4192.8	3917.2
12.5°	4661.1	4673.3	4712.4	4800.2	4912.4	5000.2	5009.9	4841.6	4553.8	4514.8	4163.6
15°	4731.9	4744.1	4792.8	4907.5	5070.9	5244.1	5356.3	5249.0	4927.0	4885.5	4434.3
17.5°	4763.6	4780.7	4851.4	5002.6	5214.8	5480.7	5734.3	5724.6	5368.5	5336.8	4748.9
20°	4824.6	4836.8	4900.2	5063.6	5319.7	5702.6	6129.5	6283.1	5907.5	5861.2	5129.4
22.5°	5017.2	5022.1	5051.4	5153.8	5392.9	5863.6	6531.9	6934.4	6544.1	6483.1	5556.3
25°	5331.9	5329.5	5341.6	5358.7	5534.3	6027.0	6919.7	7668.6	7273.4	7207.6	6039.2
27.5°	5731.9	5731.9	5761.2	5712.4	5783.1	6229.5	7302.7	8512.5	8122.2	8029.5	6568.5
30°	6202.7	6200.2	6268.5	6190.5	6212.4	6549.0	7714.9	9432.0	9146.7	9032.0	7178.3
32.5°	6841.7	6827.1	6905.1	6797.8	6724.6	7031.9	8217.4	10393.0	10373.5	10197.9	7944.2
35°	7649.0	7624.7	7649.0	7544.2	7412.4	7707.6	8875.9	11351.6	11734.5	11549.2	8856.4
37.5°	8451.5	8529.6	8556.4	8375.9	8268.6	8563.7	9668.6	12210.2	13034.6	12841.9	9805.2
40°	9397.9	9373.5	9466.2	9263.7	9195.4	9522.3	10444.3	12849.2	14063.9	13881.0	10649.1
42.5°	10095.5	10139.4	10254.0	10141.8	10088.1	10395.5	11095.5	13222.4	14778.6	14598.1	11251.6
45°	10932.1	10963.8	11007.7	10915.0	10858.9	11161.4	11566.2	13385.8	15322.5	15127.3	11656.5
47.5°	11837.0	11861.4	11861.4	11671.1	11490.6	11615.0	11880.9	13478.5	15822.5	15634.7	11956.5
50°	12485.8	12498.0	12605.3	12471.2	12078.5	11885.8	12024.8	13568.8	16154.2	15978.6	12054.1
52.5°	11910.2	11895.5	12249.2	12527.3	12632.1	12249.2	12273.6	13700.5	16315.2	16164.0	12132.1
55°	10029.6	10005.2	10502.8	11178.4	12102.9	12593.1	12573.6	13778.5	16493.2	16400.6	12415.1
57.5°	7271.0	7229.5	7922.2	8673.5	9885.7	11215.0	11995.5	13734.6	16571.3	16564.0	12744.3
60°	4370.9	4336.7	4990.4	5780.7	6717.3	8053.9	9349.1	12302.9	15527.4	15542.0	11888.2
62.5°	2690.3	2722.0	3312.3	3714.8	4063.6	4466.0	5214.8	8275.9	11502.8	11598.0	8353.9
65°	1809.8	1834.2	2380.6	2887.9	2887.9	2361.1	2026.9	3956.2	6136.8	5975.8	3951.4
67.5°	1214.7	1241.5	1673.2	2265.9	2351.3	1646.4	822.0	1180.5	1709.8	1658.6	978.1
70°	714.7	743.9	1114.7	1553.7	1712.3	1146.4	548.8	500.0	485.4	470.7	380.5
72.5°	319.5	331.7	568.3	790.3	722.0	482.9	387.8	400.0	378.1	370.7	309.8
75°	97.6	102.4	146.3	170.7	173.2	173.2	234.2	314.6	297.6	300.0	239.0
77.5°	24.4	24.4	39.0	36.6	19.5	17.1	43.9	70.7	73.2	65.9	48.8
80°	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4	2.4	2.4
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°	3370.8	3370.8	3370.8	3370.8	3370.8	3370.8	3370.8	3370.8	3370.8	3370.8	3370.8
2.5°	3417.2	3353.8	3312.3	3253.8	3212.3	3168.4	3129.4	3097.7	3080.6	3075.7	3078.2
5°	3495.2	3395.2	3297.7	3185.5	3107.4	3034.2	2975.7	2929.4	2907.4	2900.1	2900.1
7.5°	3614.8	3475.7	3302.6	3126.9	2995.2	2880.6	2812.3	2761.1	2741.6	2736.7	2722.0
10°	3770.9	3580.6	3295.2	3022.1	2836.7	2717.2	2668.4	2653.7	2661.1	2663.5	2661.1
12.5°	3958.7	3690.4	3248.9	2868.4	2668.4	2595.2	2600.1	2639.1	2683.0	2705.0	2709.8
15°	4158.7	3790.4	3144.0	2685.5	2524.5	2522.0	2592.8	2683.0	2768.4	2805.0	2814.7
17.5°	4383.1	3870.9	2983.0	2490.3	2400.1	2470.8	2597.6	2736.7	2851.3	2912.3	2924.5
20°	4629.4	3936.7	2778.1	2307.4	2290.3	2417.2	2592.8	2763.5	2905.0	2973.3	2985.5
22.5°	4885.5	3983.1	2541.6	2139.1	2190.3	2356.2	2546.4	2712.3	2846.4	2924.5	2934.2
25°	5178.2	3987.9	2300.1	1997.6	2097.6	2273.2	2434.2	2570.8	2683.0	2751.3	2758.6
27.5°	5434.3	3929.4	2085.4	1883.0	2012.3	2170.8	2278.1	2353.7	2431.8	2470.8	2473.3
30°	5729.5	3827.0	1883.0	1790.3	1924.5	2044.0	2097.6	2114.7	2122.0	2129.3	2119.6
32.5°	6080.7	3702.6	1731.8	1700.1	1824.5	1904.9	1919.6	1885.4	1844.0	1785.4	1770.8
35°	6512.4	3590.4	1607.4	1612.3	1714.7	1763.5	1751.3	1678.1	1597.6	1526.9	1514.7
37.5°	6980.7	3495.2	1512.2	1526.9	1595.2	1629.3	1592.7	1512.2	1475.7	1414.7	1417.1
40°	7395.4	3417.2	1426.9	1441.5	1473.2	1504.9	1446.4	1392.7	1461.0	1456.1	1461.0
42.5°	7690.5	3351.3	1353.7	1346.4	1368.3	1390.3	1346.4	1319.6	1434.2	1402.5	1419.6
45°	7863.7	3290.4	1292.7	1248.8	1283.0	1322.0	1292.7	1258.6	1297.6	1151.3	1139.1
47.5°	7980.8	3256.2	1239.1	1153.7	1214.7	1283.0	1222.0	1139.1	1083.0	956.1	946.4
50°	7993.0	3239.1	1175.6	1056.1	1134.2	1207.4	1136.6	1022.0	941.5	885.4	878.1
52.5°	8056.4	3273.3	1087.8	931.7	1017.1	1134.2	1085.4	970.8	861.0	812.2	802.5
55°	8339.3	3417.2	941.5	761.0	885.4	1078.1	1043.9	865.9	761.0	731.7	724.4
57.5°	8632.0	3446.5	741.5	602.5	770.8	997.6	953.7	797.6	695.1	661.0	653.7
60°	7893.0	2839.1	556.1	497.6	680.5	922.0	883.0	756.1	636.6	595.1	587.8
62.5°	5185.5	1534.2	441.5	422.0	573.2	780.5	804.9	683.0	568.3	524.4	522.0
65°	2390.3	712.2	339.0	334.2	448.8	622.0	692.7	597.6	480.5	441.5	441.5
67.5°	651.2	353.7	265.9	246.3	304.9	417.1	504.9	446.4	341.5	295.1	292.7
70°	324.4	285.4	239.0	212.2	219.5	258.5	297.6	248.8	173.2	141.5	139.0
72.5°	265.9	234.2	202.4	180.5	165.9	158.5	153.7	124.4	80.5	61.0	58.5
75°	197.6	168.3	143.9	117.1	100.0	92.7	82.9	61.0	34.1	19.5	17.1
77.5°	43.9	41.5	39.0	29.3	26.8	22.0	17.1	12.2	4.9	0.0	0.0
80°	2.4	2.4	2.4	2.4	2.4	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)