

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: P636302

Luminaire Tested: GWS-SA3F-740-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-740-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19140.5 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

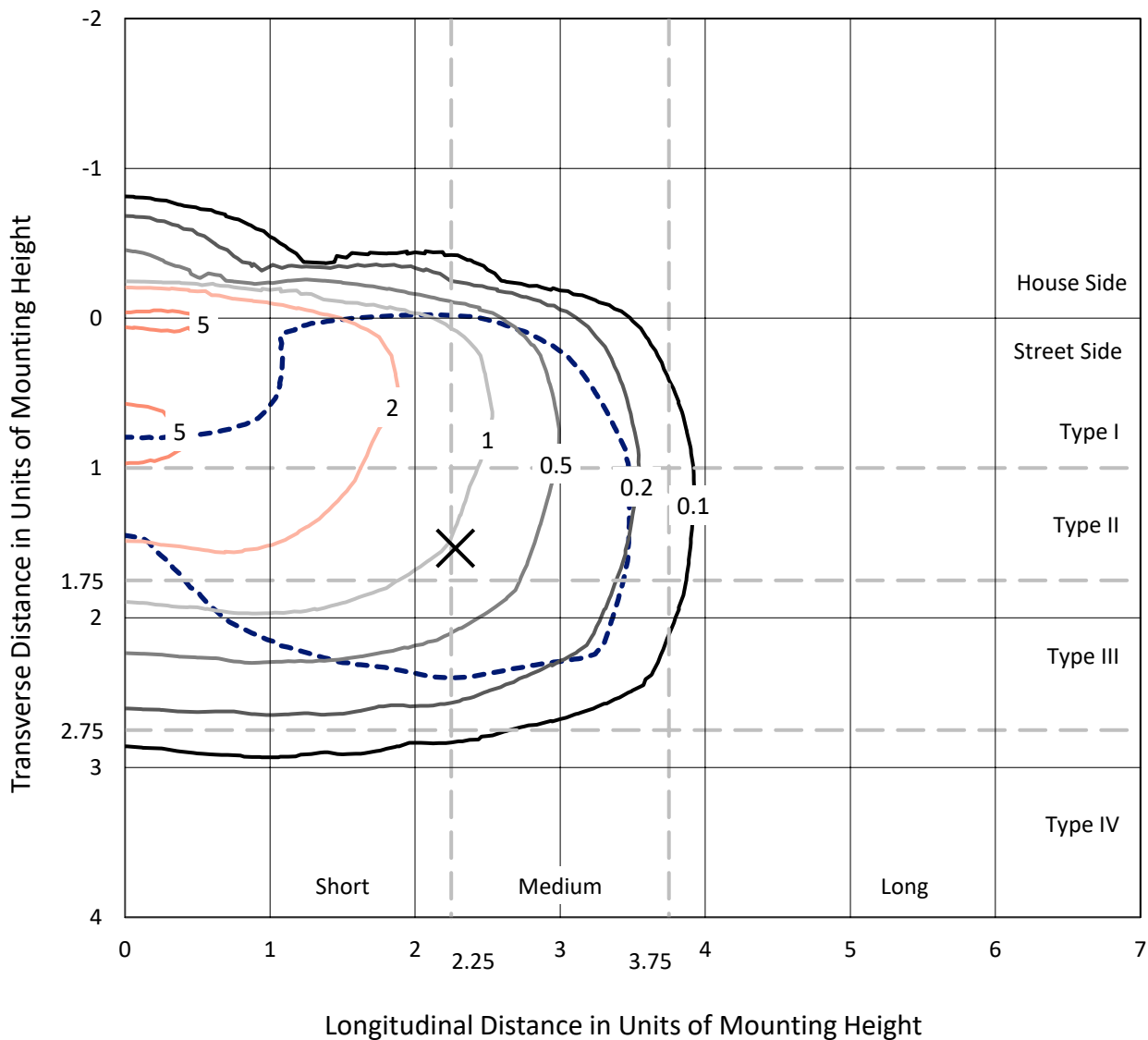
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

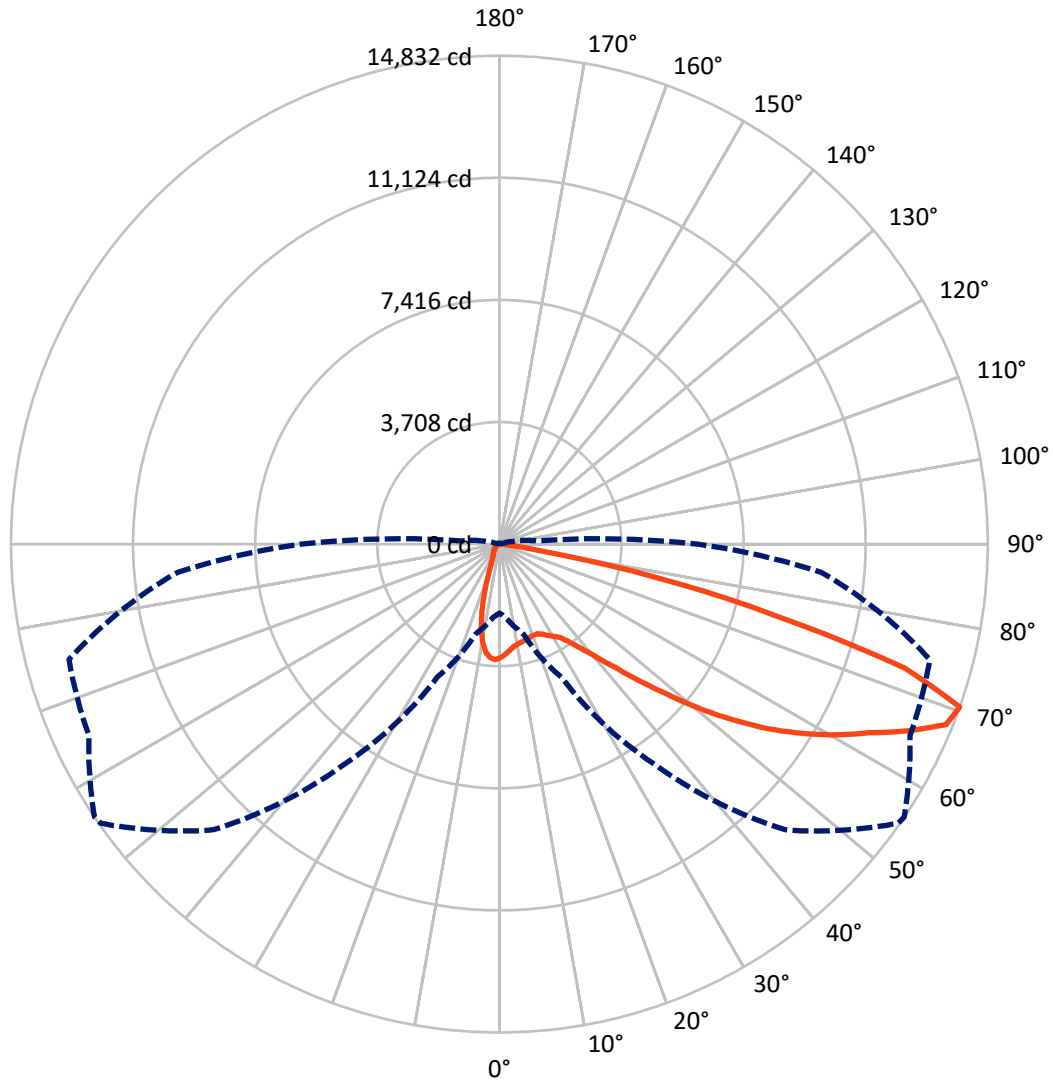
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1719.2	0.0	1719.2
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	17421.3	0.0	17421.3
	% Fixture	91.0	0.0	91.0
Total	Lumens	19140.5	0.0	19140.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.3	1.5
10°-20°	666.4	3.5
20°-30°	1055.7	5.5
30°-40°	1820.5	9.5
40°-50°	3074.2	16.1
50°-60°	4517.0	23.6
60°-70°	5355.1	28.0
70°-80°	2283.6	11.9
80°-90°	71.7	0.4
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°	19140.5	100.0
0°-180°	19140.5	100.0

Coefficient of Utilization



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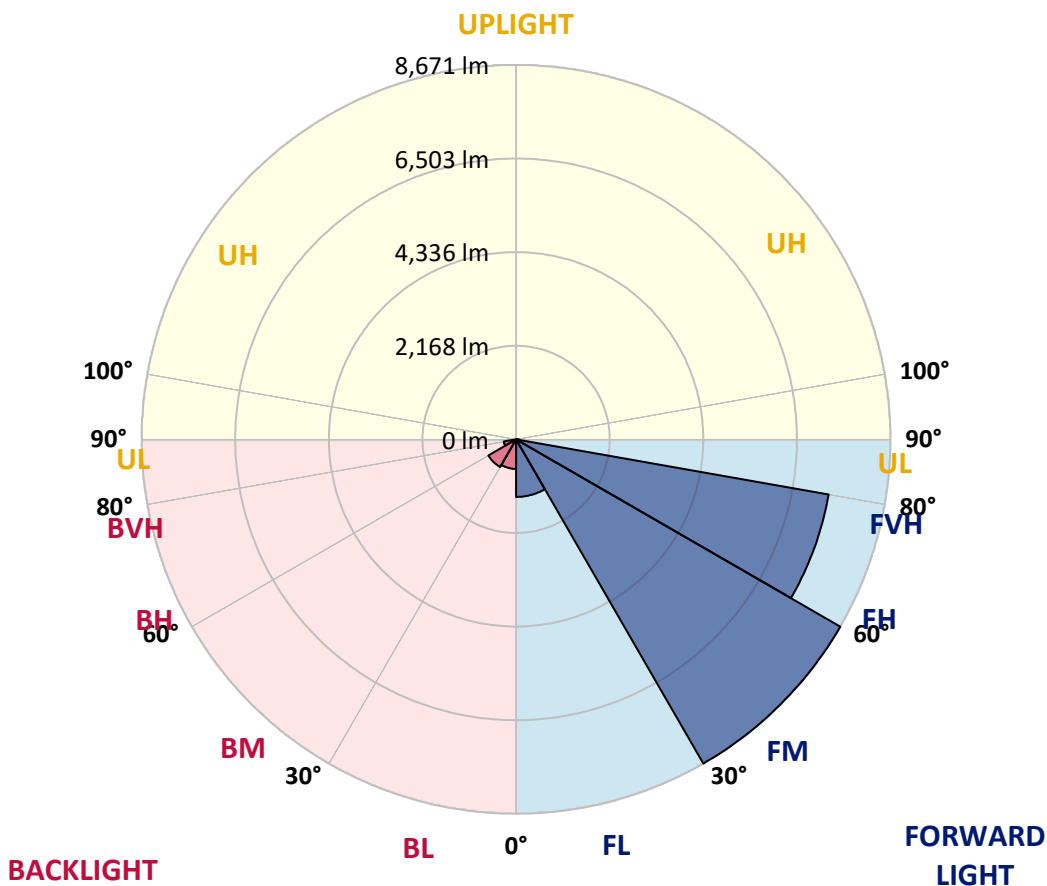
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1333.7	7.0			
FM (30°-60°)	8671.1	45.3			
FH (60°-80°)	7352.0	38.4			G3/7500
FVH (80°-90°)	64.4	0.3			G1/100
BL (0°-30°)	684.7	3.6	B2/1000		
BM (30°-60°)	740.5	3.9	B1/1000		
BH (60°-80°)	286.7	1.5	B1/500		G1/500
BVH (80°-90°)	7.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2
2.5°	3212.8	3207.6	3211.1	3237.4	3286.5	3309.2	3347.8	3354.8	3386.4	3426.7	3442.5
5°	3004.3	2986.7	2995.5	3032.3	3088.4	3151.5	3223.4	3242.6	3321.5	3410.9	3477.5
7.5°	2813.2	2793.9	2815.0	2872.8	2951.7	3020.0	3127.0	3139.2	3265.4	3423.2	3544.1
10°	2513.5	2518.7	2560.8	2662.5	2783.4	2925.4	3069.1	3086.6	3242.6	3463.5	3651.0
12.5°	2283.9	2271.6	2317.2	2432.9	2602.9	2809.7	3025.3	3048.1	3244.4	3524.8	3787.8
15°	2177.0	2173.4	2192.7	2276.9	2441.6	2685.3	2985.0	3014.8	3267.2	3580.9	3917.5
17.5°	2180.5	2175.2	2173.4	2222.5	2345.2	2592.4	2941.2	2979.7	3286.5	3642.3	4054.2
20°	2333.0	2308.4	2264.6	2241.8	2315.4	2532.8	2911.4	2955.2	3314.5	3707.1	4199.7
22.5°	2652.0	2660.7	2543.3	2420.6	2385.5	2539.8	2907.9	2958.7	3375.9	3808.8	4378.4
25°	3290.0	3275.9	3058.6	2783.4	2592.4	2620.4	2969.2	3030.6	3496.8	3954.3	4546.7
27.5°	4089.2	4101.5	3803.5	3365.3	2965.7	2786.9	3081.4	3142.7	3637.0	4045.4	4658.9
30°	4960.4	4948.1	4629.1	4143.6	3495.0	3063.9	3193.6	3247.9	3707.1	4094.5	4774.6
32.5°	5784.2	5756.1	5440.6	4932.3	4169.9	3500.3	3347.8	3379.4	3800.0	4201.4	4930.6
35°	6487.0	6485.3	6210.1	5668.5	4864.0	4047.2	3612.5	3638.8	3973.6	4371.4	5160.2
37.5°	7212.7	7188.2	6879.7	6385.4	5577.3	4646.6	4017.4	4006.9	4247.0	4622.1	5442.4
40°	7808.6	7792.9	7556.2	7081.2	6318.8	5309.2	4508.2	4476.6	4571.3	4969.1	5835.0
42.5°	8250.3	8252.1	8178.5	7889.3	7104.0	6075.1	5125.1	5076.1	5074.3	5493.2	6353.8
45°	8585.1	8607.9	8718.3	8674.5	8031.2	6967.3	5915.6	5864.8	5778.9	6173.3	6948.0
47.5°	8741.1	8770.9	9103.9	9279.2	8842.8	7852.5	6856.9	6750.0	6581.7	7077.7	7612.3
50°	8725.3	8777.9	9242.4	9775.3	9578.9	8749.9	7882.3	7831.4	7556.2	8034.7	8269.6
52.5°	8367.8	8480.0	9251.2	10076.7	10145.1	9577.2	8942.7	8848.0	8714.8	9033.8	8886.6
55°	7396.7	7533.5	8881.3	10173.1	10586.8	10299.3	9980.3	9903.2	9682.4	9976.8	9424.7
57.5°	6869.1	6986.6	8103.1	10125.8	10961.9	10967.1	10904.0	10840.9	10658.7	10909.3	10055.7
60°	6551.9	6669.3	7687.7	9952.3	11301.9	11671.8	11771.7	11764.7	11501.7	11969.7	10795.4
62.5°	6087.4	6248.7	7254.8	9501.8	11543.8	12365.9	12667.3	12620.0	12327.3	13074.0	11528.0
65°	5149.7	5289.9	6367.9	8758.6	11401.8	12940.8	13638.4	13662.9	13324.6	14113.4	12106.5
67.5°	3610.7	3714.1	4785.1	7198.7	10437.8	13130.1	14632.2	14630.5	14053.8	14646.2	11850.5
70°	2092.8	2234.8	2827.2	4450.3	8120.6	12269.5	14781.2	14832.0	13757.6	13533.2	9806.8
72.5°	809.8	927.2	1602.0	2364.5	4234.7	9398.4	12714.7	12863.7	11514.0	10439.6	6825.3
75°	241.9	269.9	753.7	1258.5	1700.2	4539.7	8607.9	8650.0	7898.0	6511.6	3498.5
77.5°	180.5	199.8	329.5	636.3	595.9	1375.9	4453.8	4864.0	4192.7	2325.9	964.0
80°	122.7	145.5	234.9	310.2	220.9	366.3	1251.5	1374.2	1279.5	522.3	241.9
82.5°	54.3	70.1	166.5	156.0	80.6	105.2	385.6	410.2	264.7	157.8	84.1
85°	5.3	7.0	63.1	68.4	29.8	24.5	80.6	80.6	57.8	54.3	35.1
87.5°	0.0	0.0	1.8	3.5	3.5	5.3	7.0	8.8	10.5	14.0	17.5
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°	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2	3451.2
2.5°	3482.8	3461.7	3488.0	3509.1	3514.3	3475.8	3453.0	3419.7	3412.7	3414.4	3405.7
5°	3530.1	3519.6	3538.9	3516.1	3456.5	3344.3	3247.9	3141.0	3083.1	3049.8	3046.3
7.5°	3617.7	3612.5	3591.4	3488.0	3302.2	3053.3	2813.2	2578.3	2432.9	2380.3	2371.5
10°	3747.4	3736.9	3651.0	3405.7	3009.5	2531.0	2127.9	1791.3	1586.3	1526.7	1453.1
12.5°	3896.4	3875.4	3687.9	3228.6	2567.8	1905.3	1402.2	1025.4	848.3	795.8	795.8
15°	4040.2	3994.6	3666.8	2935.9	2024.5	1239.2	783.5	592.4	538.1	524.1	524.1
17.5°	4187.4	4099.8	3584.4	2536.3	1398.7	732.7	522.3	485.5	478.5	480.3	482.0
20°	4325.9	4189.1	3439.0	2056.0	892.2	511.8	468.0	459.2	455.7	459.2	457.5
22.5°	4476.6	4271.5	3218.1	1531.9	580.2	461.0	445.2	438.2	434.7	439.9	439.9
25°	4625.6	4331.1	2925.4	1030.6	461.0	429.4	420.7	413.7	410.2	411.9	411.9
27.5°	4702.7	4308.3	2541.5	657.3	413.7	397.9	389.1	380.4	375.1	373.3	375.1
30°	4755.3	4238.2	2071.8	468.0	375.1	355.8	347.1	340.0	326.0	317.3	320.8
32.5°	4837.7	4168.1	1561.7	392.6	343.5	313.7	299.7	282.2	262.9	254.2	254.2
35°	4935.8	4071.7	1095.5	354.1	310.2	278.7	252.4	222.6	199.8	192.8	192.8
37.5°	5065.5	3980.6	729.2	327.8	282.2	248.9	212.1	177.0	152.5	149.0	147.2
40°	5260.1	3903.4	513.6	308.5	257.7	217.3	173.5	136.7	119.2	113.9	113.9
42.5°	5512.5	3824.6	406.6	289.2	236.6	187.5	138.5	108.7	94.7	91.1	89.4
45°	5824.5	3731.7	354.1	271.7	215.6	156.0	110.4	91.1	80.6	77.1	77.1
47.5°	6162.8	3605.5	329.5	248.9	191.1	126.2	92.9	78.9	73.6	71.9	70.1
50°	6495.8	3435.4	308.5	227.9	163.0	103.4	80.6	71.9	68.4	66.6	66.6
52.5°	6786.8	3237.4	282.2	203.3	133.2	89.4	71.9	66.6	63.1	59.6	57.8
55°	7035.7	3021.8	248.9	175.3	108.7	78.9	66.6	61.3	57.8	54.3	52.6
57.5°	7356.4	2899.1	199.8	142.0	89.4	70.1	61.3	56.1	52.6	47.3	47.3
60°	7712.2	2809.7	149.0	112.2	77.1	64.9	56.1	50.8	47.3	42.1	42.1
62.5°	7997.9	2676.5	117.4	91.1	66.6	57.8	50.8	45.6	42.1	36.8	36.8
65°	8106.6	2401.3	96.4	71.9	54.3	50.8	45.6	42.1	36.8	31.6	31.6
67.5°	7615.8	1850.9	80.6	57.8	45.6	43.8	40.3	38.6	31.6	28.0	26.3
70°	6031.3	1128.8	66.6	47.3	38.6	36.8	36.8	33.3	28.0	26.3	24.5
72.5°	4133.1	581.9	54.3	38.6	33.3	33.3	31.6	29.8	26.3	24.5	24.5
75°	2147.2	194.6	42.1	29.8	26.3	28.0	28.0	26.3	24.5	24.5	22.8
77.5°	615.2	87.6	31.6	22.8	21.0	21.0	22.8	22.8	22.8	21.0	21.0
80°	159.5	50.8	22.8	17.5	17.5	17.5	17.5	19.3	21.0	19.3	19.3
82.5°	64.9	28.0	15.8	14.0	14.0	14.0	14.0	15.8	17.5	17.5	17.5
85°	40.3	14.0	12.3	12.3	12.3	10.5	10.5	12.3	12.3	14.0	14.0
87.5°	24.5	10.5	10.5	10.5	10.5	8.8	8.8	8.8	8.8	8.8	8.8
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)