

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P484338

Luminaire Tested: **IFLD-M-SA4A-730-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484338
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-730-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

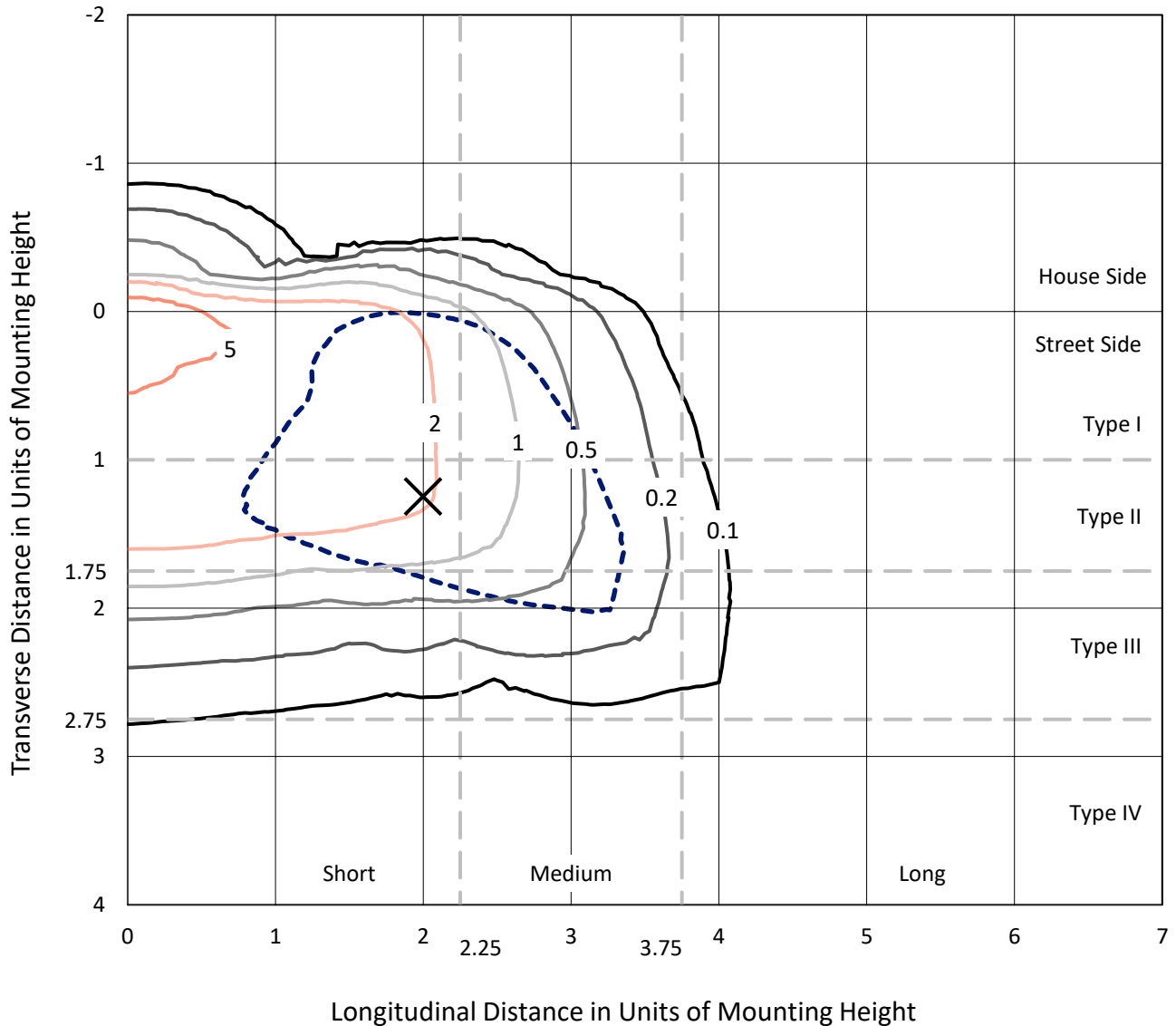
Lumens per Lamp: N/A
Luminaire Lumens: 14063.4 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

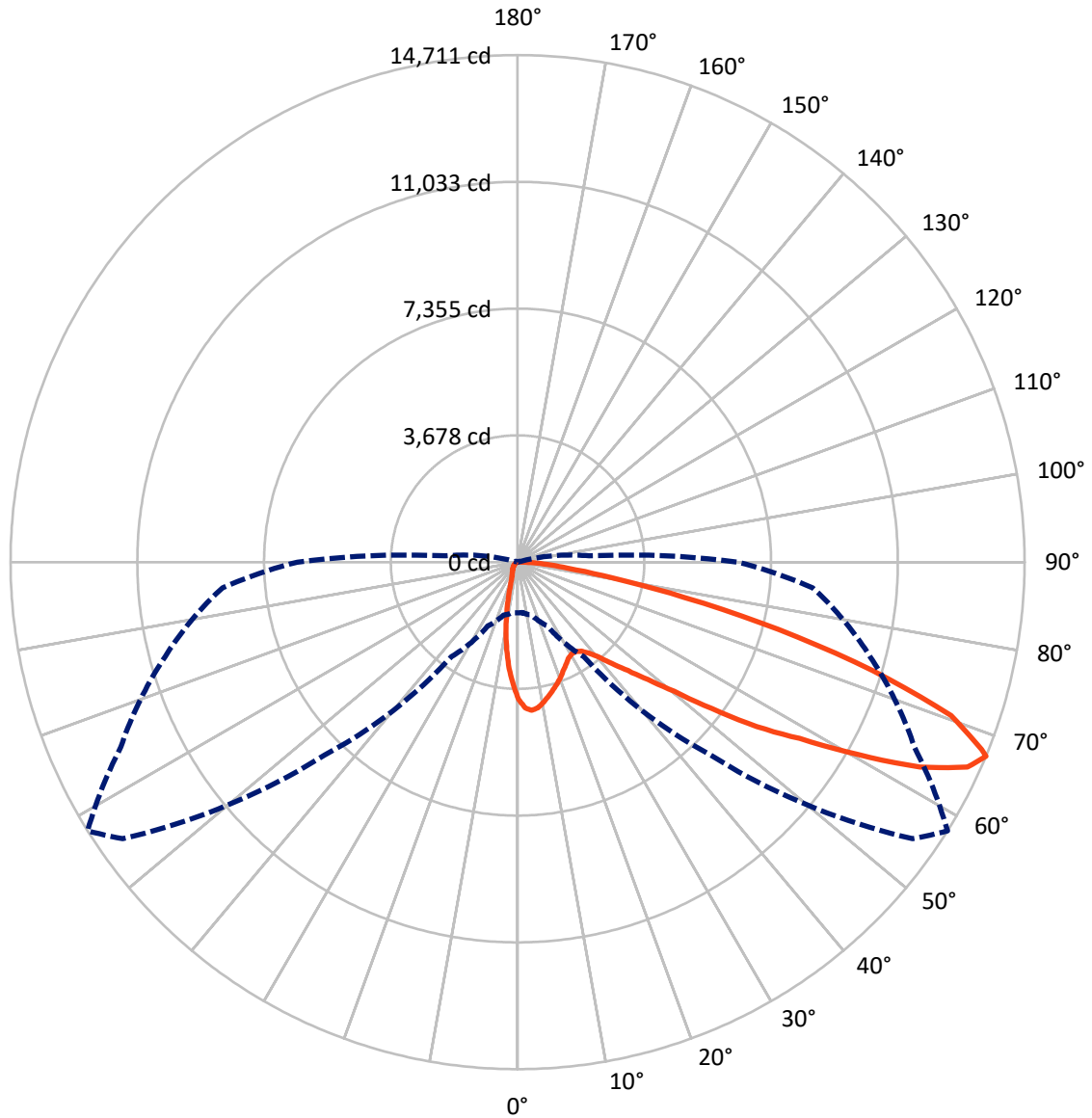
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1162.4	0.0	1162.4
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	12901.0	0.0	12901.0
	% Fixture	91.7	0.0	91.7
Total	Lumens	14063.4	0.0	14063.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.1	2.2
10°-20°	655.7	4.7
20°-30°	870.0	6.2
30°-40°	1205.6	8.6
40°-50°	1967.1	14.0
50°-60°	3457.6	24.6
60°-70°	3829.6	27.2
70°-80°	1587.0	11.3
80°-90°	174.7	1.2
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°	14063.4	100.0
0°-180°	14063.4	100.0

Coefficient of Utilization



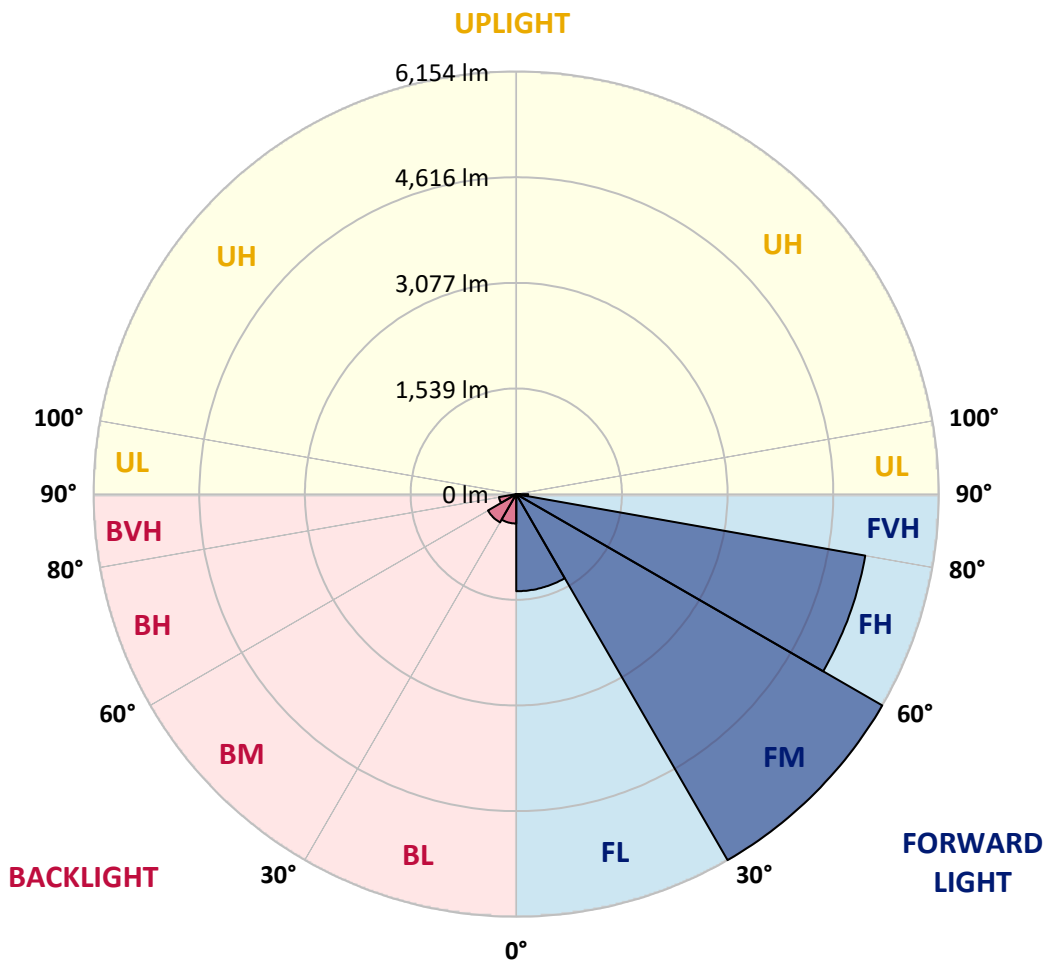
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1413.8	10.1			
FM (30°-60°)	6154.5	43.8			
FH (60°-80°)	5161.0	36.7			G3/7500
FVH (80°-90°)	171.8	1.2			G2/225
BL (0°-30°)	428.1	3.0	B1/500		
BM (30°-60°)	475.9	3.4	B1/1000		
BH (60°-80°)	255.6	1.8	B1/500		G1/500
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3984.4	3984.4	3984.4	3984.4	3984.4	3984.4	3984.4	3984.4	3984.4	3984.4	3984.4
2.5°	4335.4	4350.3	4363.4	4339.1	4359.7	4329.8	4253.2	4236.4	4223.4	4109.5	4044.1
5°	4333.5	4316.7	4329.8	4341.0	4313.0	4335.4	4316.7	4318.6	4268.2	4165.5	3982.5
7.5°	4044.1	4036.6	4044.1	4098.3	4159.9	4208.4	4236.4	4264.4	4230.8	4077.7	3900.4
10°	3653.9	3691.2	3711.8	3808.9	3904.1	3993.7	4081.5	4133.7	4124.4	4062.8	3810.7
12.5°	3381.3	3370.1	3444.8	3508.3	3603.5	3784.6	3937.7	3986.2	4042.3	3956.4	3693.1
15°	3129.2	3099.4	3144.2	3254.3	3416.8	3560.5	3775.3	3848.1	3919.0	3941.4	3629.6
17.5°	2888.4	2903.3	2950.0	3049.0	3202.1	3403.7	3605.4	3709.9	3879.8	3849.9	3534.4
20°	2772.6	2804.4	2821.2	2871.6	2978.0	3179.7	3480.3	3564.3	3745.4	3848.1	3441.0
22.5°	2778.2	2778.2	2739.0	2768.9	2866.0	3022.8	3310.4	3403.7	3691.2	3751.0	3357.0
25°	2838.0	2800.6	2802.5	2767.0	2808.1	2894.0	3157.2	3271.1	3581.1	3760.3	3312.2
27.5°	2882.8	2875.3	2864.1	2854.8	2802.5	2815.6	3056.4	3149.8	3538.1	3749.1	3243.1
30°	3045.2	3011.6	3000.4	2979.9	2910.8	2847.3	2976.1	3093.8	3504.5	3775.3	3203.9
32.5°	3181.5	3187.1	3196.5	3136.7	3077.0	2920.1	2998.5	3091.9	3480.3	3835.0	3243.1
35°	3353.3	3377.6	3381.3	3362.6	3299.1	3144.2	3091.9	3172.2	3521.3	3941.4	3246.9
37.5°	3614.7	3588.5	3659.5	3667.0	3622.2	3416.8	3308.5	3340.2	3642.7	4111.3	3388.8
40°	3784.6	3816.3	3948.9	4031.0	3954.5	3767.8	3622.2	3616.6	3818.2	4378.3	3564.3
42.5°	3973.2	4044.1	4189.8	4367.1	4357.8	4184.1	4036.6	4012.4	4130.0	4764.8	3842.5
45°	4230.8	4294.3	4497.8	4764.8	4910.4	4762.9	4540.8	4492.2	4509.0	5291.3	4316.7
47.5°	4658.4	4641.6	4934.7	5198.0	5437.0	5323.1	5227.9	5086.0	5072.9	5911.2	4972.1
50°	5142.0	5138.2	5399.6	5698.4	5974.7	6196.9	6038.2	5883.2	5886.9	6753.3	5743.2
52.5°	5601.3	5674.1	5956.0	6252.9	6727.1	6966.1	7119.2	7057.6	6760.7	7505.7	6568.4
55°	5844.0	5907.5	6187.5	6699.1	7447.8	8062.1	8476.6	8424.3	7851.1	8353.4	7382.5
57.5°	5614.3	5657.3	6036.3	6706.6	7951.9	9322.4	9720.1	9654.7	8978.8	9001.2	8366.4
60°	4652.8	4720.0	5283.9	6069.9	7755.9	10293.3	11432.2	11333.2	10005.7	9820.9	8999.4
62.5°	3222.6	3267.4	3730.4	4708.8	6826.1	10631.2	13049.1	13103.2	11088.6	10459.4	9188.0
65°	2087.4	2083.7	2348.8	3011.6	4837.6	9608.0	14005.0	14341.1	12134.2	10556.5	9130.1
67°	1475.0	1469.4	1594.5	2042.6	3349.6	7916.5	13988.2	14710.8	12701.8	10584.5	8594.2
67.5°	1361.1	1355.5	1475.0	1878.3	3022.8	7361.9	13779.1	14520.4	12901.6	10545.3	8359.0
70°	1056.8	1041.8	1086.6	1293.9	1760.7	4761.1	11792.5	13338.5	12487.1	9567.0	6674.8
72.5°	763.6	780.4	851.4	1062.4	1381.6	2561.6	8988.2	10786.2	10429.6	7210.7	4242.0
75°	532.1	547.1	660.9	866.3	1267.8	1553.4	6077.4	7823.1	7264.8	3980.6	1807.3
77.5°	278.2	296.9	422.0	692.7	1152.0	1202.4	3631.5	4960.9	3849.9	1417.1	498.5
80°	128.8	138.2	211.0	491.0	963.4	1056.8	2117.3	2759.6	1540.3	317.4	171.8
82.5°	56.0	61.6	97.1	281.9	683.4	924.2	1310.7	1447.0	558.3	102.7	106.4
85°	11.2	13.1	37.3	149.4	330.5	560.1	920.5	858.9	280.1	50.4	84.0
87.5°	0.0	0.0	9.3	42.9	89.6	166.2	390.2	390.2	85.9	26.1	31.7
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°	3984.4	3984.4	3984.4	3984.4	3984.4	3984.4	3984.4	3984.4	3984.4	3984.4	3984.4
2.5°	3986.2	3919.0	3771.5	3635.2	3538.1	3428.0	3282.3	3217.0	3192.7	3159.1	3108.7
5°	3881.7	3799.5	3547.5	3293.5	3015.4	2804.4	2580.3	2449.6	2350.7	2289.1	2268.5
7.5°	3734.2	3566.1	3226.3	2819.3	2459.0	2145.3	1805.5	1575.8	1428.3	1368.6	1312.6
10°	3616.6	3398.1	2880.9	2374.9	1895.1	1435.8	1053.0	851.4	698.3	640.4	632.9
12.5°	3463.5	3202.1	2557.9	1921.2	1318.2	855.1	582.5	506.0	463.0	455.6	450.0
15°	3336.5	3024.7	2251.7	1488.1	853.3	534.0	453.7	435.0	423.8	420.1	422.0
17.5°	3250.6	2834.2	1938.0	1082.9	562.0	436.9	418.2	407.0	401.4	399.6	394.0
20°	3080.7	2673.7	1628.1	758.0	438.8	403.3	388.4	379.0	373.4	371.6	369.7
22.5°	2983.6	2470.2	1318.2	528.4	390.2	365.9	354.7	347.3	337.9	332.3	330.5
25°	2886.5	2320.8	1041.8	410.8	354.7	337.9	321.1	311.8	296.9	289.4	287.5
27.5°	2772.6	2173.3	802.8	356.6	319.3	302.5	285.7	270.7	252.1	244.6	240.9
30°	2707.3	2029.5	604.9	319.3	293.1	270.7	250.2	231.5	211.0	197.9	194.2
32.5°	2673.7	1898.8	453.7	291.3	265.1	240.9	214.7	192.3	173.6	162.4	160.6
35°	2632.6	1771.9	356.6	265.1	239.0	212.8	186.7	164.3	145.6	136.3	132.6
37.5°	2675.5	1697.2	296.9	244.6	218.4	188.6	160.6	138.2	123.2	113.9	112.0
40°	2793.2	1635.6	257.7	225.9	197.9	166.2	140.0	117.6	104.6	97.1	93.4
42.5°	2974.3	1635.6	233.4	207.2	179.2	145.6	119.5	102.7	89.6	82.2	80.3
45°	3302.9	1686.0	212.8	188.6	156.8	125.1	102.7	85.9	72.8	65.3	63.5
47.5°	3764.1	1801.7	196.0	171.8	140.0	110.2	89.6	72.8	59.7	52.3	50.4
50°	4383.9	2065.0	179.2	151.2	125.1	95.2	74.7	57.9	46.7	39.2	37.3
52.5°	5156.9	2438.4	162.4	140.0	106.4	80.3	59.7	46.7	35.5	29.9	28.0
55°	5974.7	2895.9	141.9	125.1	91.5	67.2	48.5	35.5	26.1	22.4	20.5
57.5°	6798.1	3248.7	125.1	108.3	74.7	54.1	39.2	28.0	18.7	14.9	13.1
60°	7235.0	3282.3	108.3	89.6	59.7	42.9	29.9	20.5	13.1	9.3	7.5
62.5°	7302.2	2983.6	93.4	72.8	48.5	33.6	20.5	14.9	7.5	3.7	3.7
65°	6956.8	2487.0	80.3	57.9	37.3	24.3	14.9	9.3	3.7	1.9	0.0
67°	6396.7	2083.7	69.1	48.5	29.9	18.7	11.2	5.6	1.9	0.0	0.0
67.5°	6180.1	1971.6	65.3	44.8	28.0	16.8	9.3	5.6	1.9	0.0	0.0
70°	4796.6	1407.8	48.5	31.7	20.5	13.1	7.5	3.7	0.0	0.0	0.0
72.5°	2938.8	823.4	37.3	22.4	14.9	9.3	5.6	1.9	0.0	0.0	0.0
75°	1232.3	283.8	31.7	16.8	11.2	5.6	3.7	1.9	0.0	0.0	0.0
77.5°	321.1	106.4	22.4	11.2	7.5	5.6	3.7	1.9	0.0	0.0	0.0
80°	130.7	48.5	14.9	7.5	7.5	5.6	3.7	1.9	0.0	0.0	0.0
82.5°	85.9	22.4	9.3	7.5	5.6	3.7	1.9	0.0	0.0	0.0	0.0
85°	65.3	13.1	5.6	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	28.0	7.5	5.6	3.7	3.7	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)