

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: P484165

Luminaire Tested: **IFLD-S-SA3D-830-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484165
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-830-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

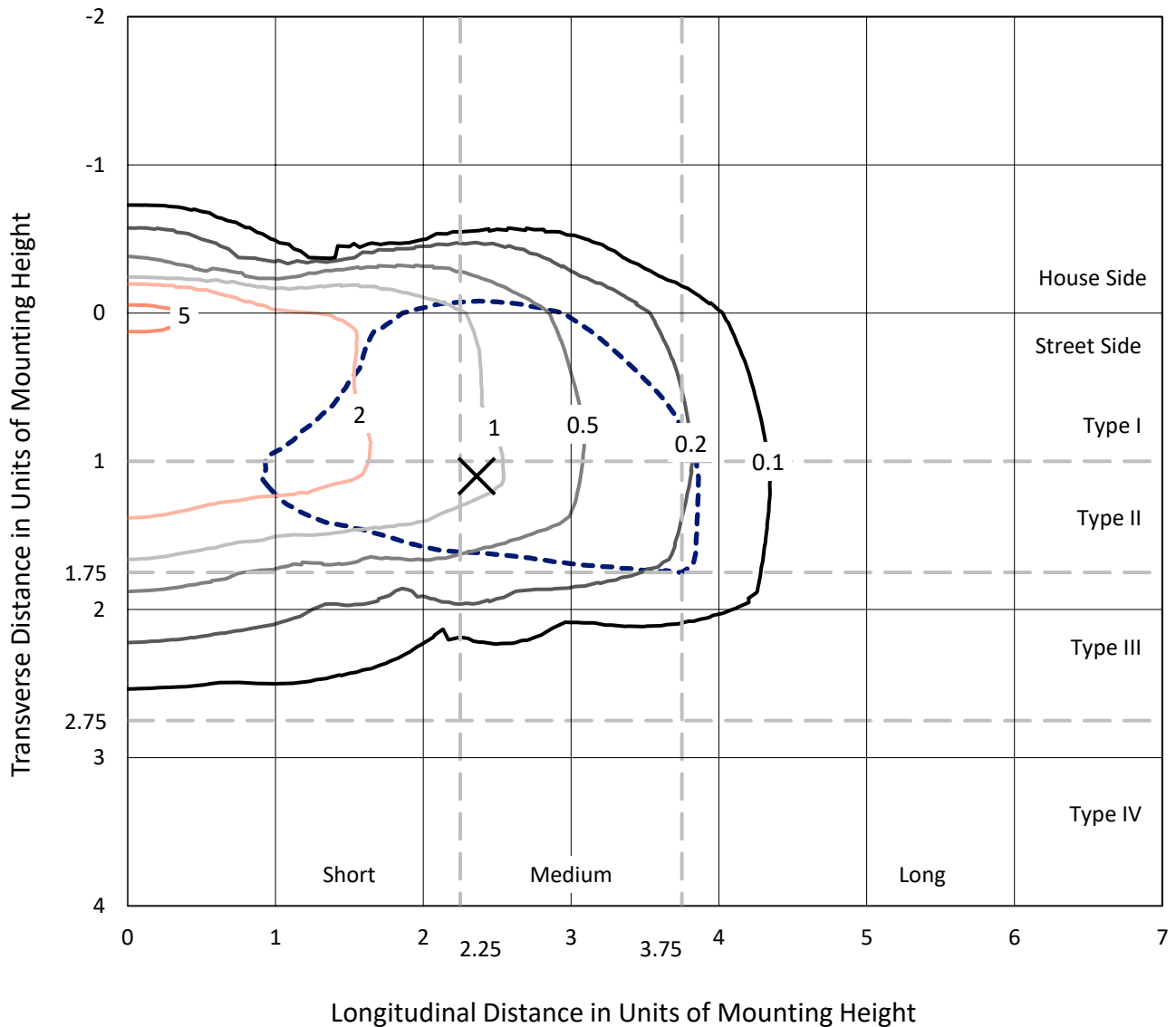
Lumens per Lamp: N/A
Luminaire Lumens: 15242.7 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1
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

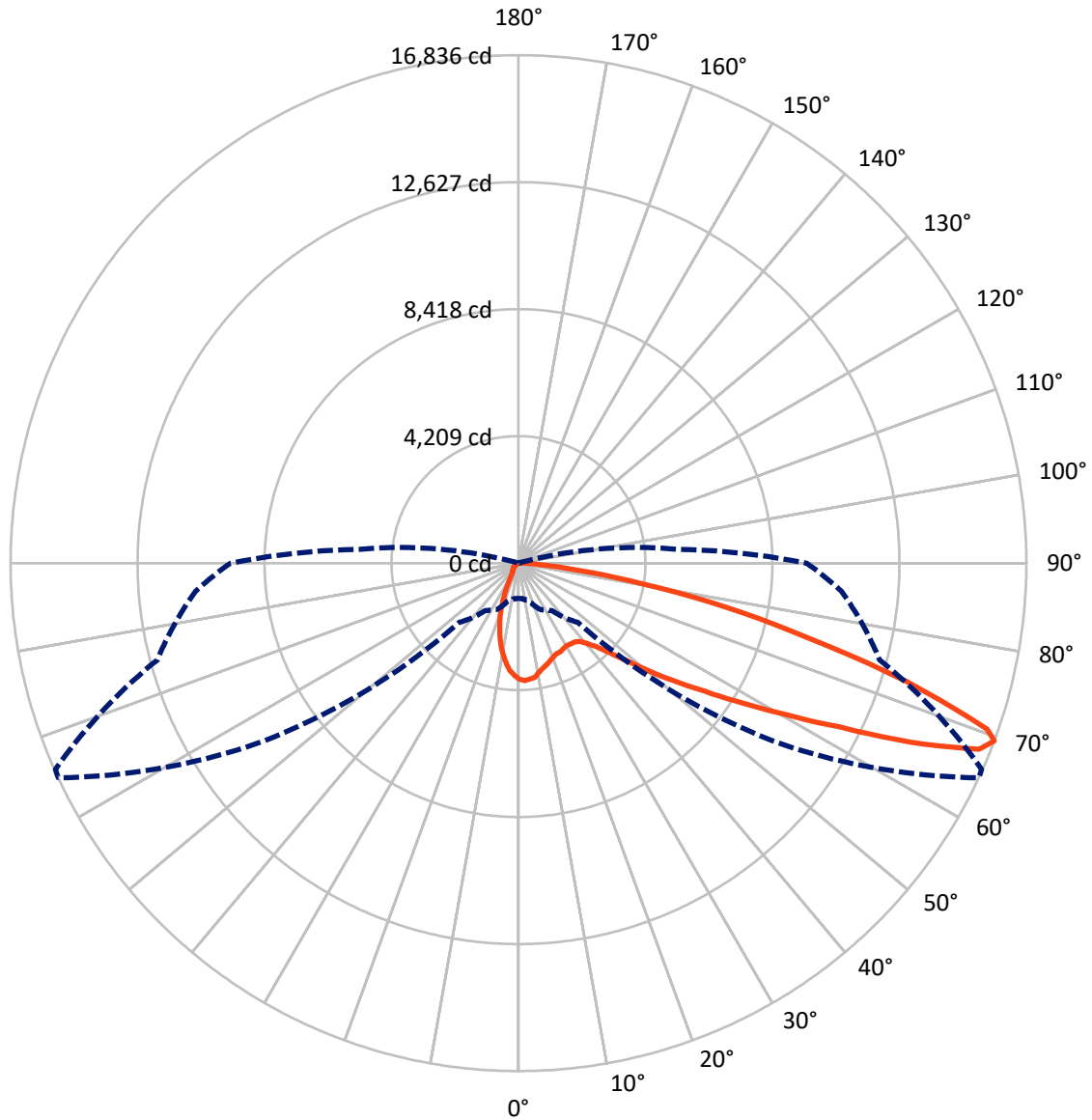
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1849.0	0.0	1849.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	13393.7	0.0	13393.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	15242.7	0.0	15242.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.5	2.1
10°-20°	688.1	4.5
20°-30°	958.0	6.3
30°-40°	1357.5	8.9
40°-50°	2139.4	14.0
50°-60°	3471.6	22.8
60°-70°	3877.1	25.4
70°-80°	2183.2	14.3
80°-90°	253.3	1.7
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°	15242.7	100.0
0°-180°	15242.7	100.0



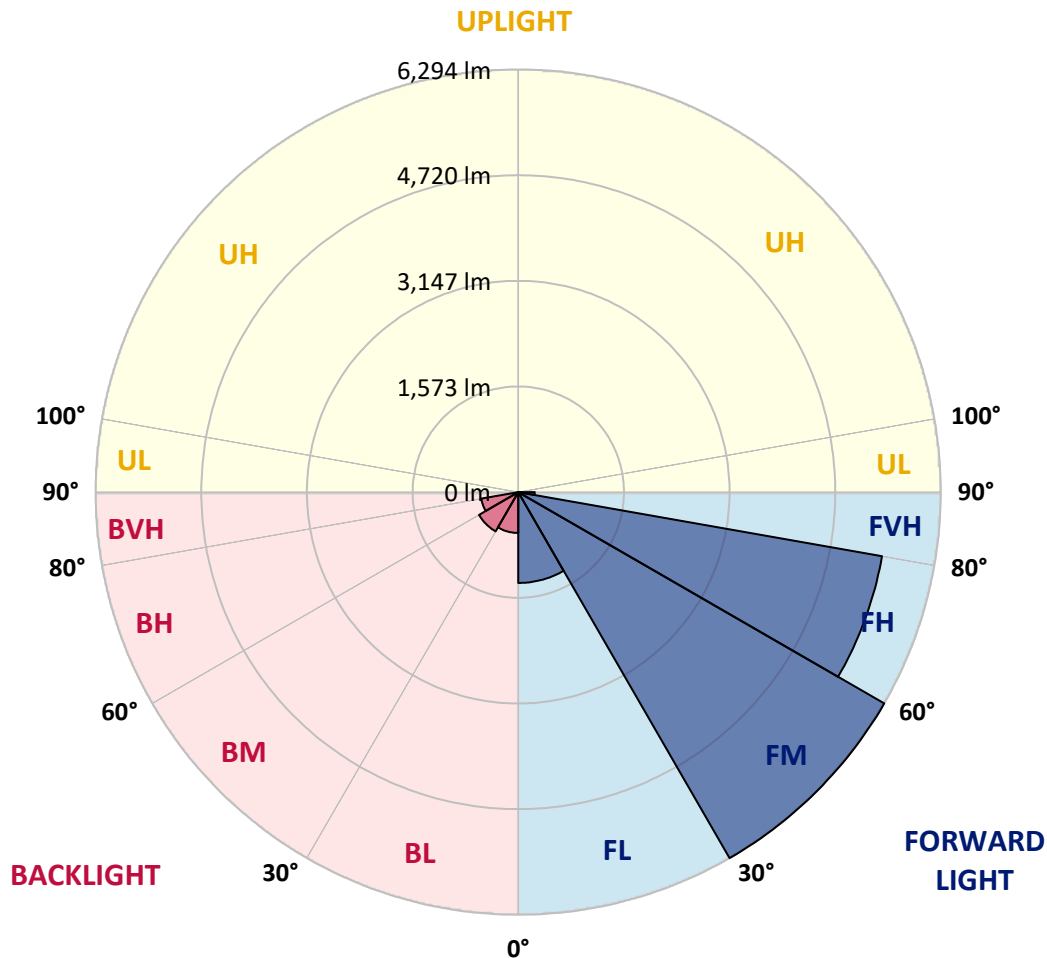
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1352.6	8.9			
FM (30°-60°)	6293.9	41.3			
FH (60°-80°)	5500.8	36.1			G3/7500
FVH (80°-90°)	246.4	1.6			G3/500
BL (0°-30°)	607.9	4.0	B2/1000		
BM (30°-60°)	674.7	4.4	B1/1000		
BH (60°-80°)	559.4	3.7	B2/1000		G2/1000
BVH (80°-90°)	7.0	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3843.0	3843.0	3843.0	3843.0	3843.0	3843.0	3843.0	3843.0	3843.0	3843.0	3843.0
2.5°	3701.2	3730.0	3738.2	3767.0	3781.4	3843.0	3878.0	3898.6	3888.3	3910.9	3913.0
5°	3438.0	3421.5	3464.7	3495.5	3561.3	3668.3	3777.2	3861.6	3900.6	3937.6	3931.5
7.5°	3156.3	3148.0	3191.2	3261.1	3320.8	3450.3	3625.1	3832.8	3824.5	3915.0	3941.7
10°	2963.0	2971.2	2985.6	3055.5	3143.9	3275.5	3493.5	3686.8	3730.0	3921.2	3974.6
12.5°	2786.2	2800.5	2827.3	2899.2	3002.1	3137.8	3349.6	3575.7	3641.5	3886.2	3993.1
15°	2728.6	2695.7	2749.1	2802.6	2909.5	3030.8	3209.7	3491.4	3520.2	3845.1	4024.0
17.5°	2681.3	2660.7	2685.4	2728.6	2841.7	2940.4	3109.0	3401.0	3454.4	3828.7	4019.9
20°	2695.7	2677.2	2687.5	2720.4	2771.8	2864.3	3020.6	3314.6	3372.2	3752.6	4013.7
22.5°	2736.8	2751.2	2732.7	2740.9	2757.4	2804.7	2973.3	3252.9	3302.3	3738.2	4048.7
25°	2921.9	2897.2	2872.5	2862.2	2765.6	2786.2	2958.9	3248.8	3283.8	3686.8	4019.9
27.5°	3115.1	3094.6	3084.3	3024.7	2893.1	2831.4	2960.9	3191.2	3238.5	3666.2	3984.9
30°	3349.6	3376.3	3335.2	3263.2	3080.2	2928.0	2983.6	3162.4	3228.2	3588.1	3962.3
32.5°	3596.3	3610.7	3631.3	3577.8	3341.3	3074.0	3051.4	3189.2	3193.3	3588.1	3910.9
35°	3875.9	3855.4	3908.8	3913.0	3705.3	3333.1	3180.9	3207.7	3250.9	3571.6	3892.4
37.5°	4116.5	4151.5	4213.2	4311.9	4098.0	3699.1	3382.5	3294.0	3312.5	3647.7	3906.8
40°	4379.7	4414.7	4554.5	4653.2	4531.9	4110.4	3688.8	3495.5	3509.9	3760.8	3980.8
42.5°	4669.6	4737.5	4904.0	5076.8	5043.9	4632.6	4083.6	3791.6	3785.5	4042.5	4133.0
45°	5062.4	5152.8	5333.8	5533.2	5562.0	5231.0	4610.0	4233.7	4254.3	4410.6	4447.6
47.5°	5609.3	5605.2	5782.0	6004.1	6170.7	5852.0	5239.2	4828.0	4825.9	4992.5	4914.3
50°	6137.8	6139.8	6187.1	6444.1	6875.9	6713.5	6018.5	5617.5	5594.9	5677.2	5551.8
52.5°	6382.5	6353.7	6318.7	6629.2	7418.8	7799.2	7005.5	6512.0	6493.5	6444.1	6411.2
55°	6125.4	6135.7	6133.7	6456.5	7704.6	8944.5	8272.1	7496.9	7466.1	7311.9	7357.1
57.5°	5300.9	5268.0	5340.0	5843.7	7377.7	9725.8	10083.6	8738.9	8658.7	8146.7	8043.9
60°	3945.9	3956.1	4015.8	4610.0	6565.5	9890.3	11817.0	10196.7	9851.3	8734.8	8592.9
62.5°	2755.3	2734.8	2757.4	3090.5	4694.3	9232.4	12989.0	11969.2	11636.1	9403.0	9320.8
65°	1971.9	1945.2	2035.6	2239.2	2819.1	7058.9	13155.6	14329.7	14031.5	10470.2	10272.8
67.5°	1418.8	1414.7	1519.5	1889.7	2002.7	4065.1	11921.9	16468.1	16287.2	11736.8	10852.6
69°	1174.1	1176.1	1276.9	1692.3	1912.3	2775.9	10258.4	16836.2	16803.3	12390.7	10743.7
70°	1024.0	1032.2	1149.4	1575.1	1875.3	2282.4	8843.7	16474.3	16441.4	12518.2	10383.8
72.5°	631.3	637.4	791.6	1262.5	1782.7	1862.9	5288.6	13478.4	13591.5	11934.2	8946.5
75°	302.3	304.3	415.4	913.0	1719.0	1766.3	2833.4	9945.9	10184.4	9635.4	6991.1
77.5°	160.4	160.4	199.5	485.3	1392.0	1661.4	1682.0	7015.8	7213.2	6092.5	3974.6
80°	80.2	82.2	121.3	252.9	863.6	1628.5	1313.9	4184.4	4291.3	2486.0	1237.8
82.5°	30.8	32.9	57.6	152.2	448.3	1375.6	1153.5	2058.3	2031.5	581.9	302.3
85°	4.1	4.1	20.6	90.5	191.2	606.6	952.0	859.5	830.7	127.5	146.0
87.5°	0.0	0.0	4.1	26.7	57.6	176.8	368.1	236.5	263.2	35.0	72.0
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°	3843.0	3843.0	3843.0	3843.0	3843.0	3843.0	3843.0	3843.0	3843.0	3843.0	3843.0
2.5°	3902.7	3859.5	3793.7	3730.0	3662.1	3579.9	3489.4	3456.5	3398.9	3394.8	3427.7
5°	3898.6	3828.7	3713.5	3577.8	3384.5	3238.5	3080.2	2965.0	2876.6	2819.1	2833.4
7.5°	3919.1	3834.8	3635.4	3343.4	3094.6	2804.7	2560.0	2391.4	2237.1	2161.1	2152.8
10°	3886.2	3773.1	3481.2	3072.0	2706.0	2300.9	1943.1	1716.9	1486.6	1402.3	1406.4
12.5°	3904.7	3746.4	3314.6	2792.3	2288.6	1762.2	1334.5	1026.0	810.1	740.2	732.0
15°	3917.1	3688.8	3154.2	2457.2	1825.9	1200.8	773.1	581.9	514.1	501.7	499.7
17.5°	3869.8	3618.9	2928.0	2126.1	1353.0	730.0	514.1	475.0	462.6	454.4	450.3
20°	3867.7	3577.8	2732.7	1786.8	902.7	497.6	444.1	429.7	411.2	405.1	405.1
22.5°	3832.8	3491.4	2498.3	1414.7	575.7	427.7	398.9	376.3	355.7	347.5	345.4
25°	3822.5	3390.7	2278.3	1063.1	438.0	382.5	353.7	320.8	296.1	283.8	277.6
27.5°	3793.7	3304.3	2056.2	748.5	382.5	341.3	304.3	269.4	240.6	222.1	220.0
30°	3690.9	3213.8	1809.5	518.2	347.5	302.3	261.1	220.0	191.2	178.9	174.8
32.5°	3647.7	3129.5	1540.1	398.9	316.7	267.3	220.0	183.0	160.4	148.0	146.0
35°	3596.3	3006.2	1279.0	347.5	287.9	232.4	185.1	154.2	135.7	125.4	125.4
37.5°	3602.5	2907.5	1034.3	314.6	257.0	199.5	158.3	131.6	115.1	104.9	104.9
40°	3584.0	2829.3	804.0	285.8	228.2	170.7	133.7	111.0	96.6	86.4	84.3
42.5°	3668.3	2808.8	606.6	261.1	199.5	146.0	115.1	94.6	80.2	67.9	67.9
45°	3810.1	2841.7	472.9	238.5	170.7	125.4	98.7	78.1	63.7	55.5	53.5
47.5°	4188.5	2971.2	370.1	220.0	146.0	109.0	82.2	63.7	51.4	43.2	41.1
50°	4737.5	3261.1	314.6	193.3	123.4	92.5	67.9	49.3	41.1	32.9	30.8
52.5°	5518.9	3748.5	285.8	170.7	102.8	76.1	53.5	39.1	30.8	24.7	22.6
55°	6370.1	4357.1	259.1	143.9	86.4	61.7	43.2	30.8	22.6	16.4	14.4
57.5°	7034.3	4883.5	236.5	119.3	69.9	49.3	32.9	22.6	16.4	10.3	8.2
60°	7760.1	5253.6	207.7	94.6	57.6	37.0	24.7	16.4	12.3	6.2	6.2
62.5°	8508.6	5687.5	170.7	74.0	45.2	28.8	18.5	12.3	8.2	2.1	2.1
65°	9549.0	6026.7	131.6	57.6	35.0	20.6	14.4	10.3	4.1	0.0	0.0
67.5°	9843.0	5860.2	96.6	45.2	24.7	14.4	10.3	6.2	2.1	0.0	0.0
69°	9549.0	5278.3	84.3	39.1	20.6	12.3	8.2	4.1	2.1	0.0	0.0
70°	9012.3	4825.9	74.0	32.9	18.5	12.3	6.2	4.1	2.1	0.0	0.0
72.5°	7538.0	3701.2	57.6	24.7	14.4	10.3	6.2	4.1	0.0	0.0	0.0
75°	5529.1	2286.5	43.2	18.5	12.3	8.2	6.2	4.1	0.0	0.0	0.0
77.5°	2963.0	834.8	30.8	12.3	8.2	6.2	6.2	4.1	0.0	0.0	0.0
80°	812.2	246.7	22.6	8.2	6.2	4.1	4.1	2.1	0.0	0.0	0.0
82.5°	222.1	63.7	14.4	8.2	6.2	4.1	2.1	0.0	0.0	0.0	0.0
85°	119.3	24.7	8.2	6.2	4.1	2.1	0.0	0.0	0.0	0.0	0.0
87.5°	61.7	8.2	6.2	4.1	4.1	2.1	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)