

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: P484007

Luminaire Tested: **IFLD-S-SA3B-740-U-SL2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484007
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-740-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

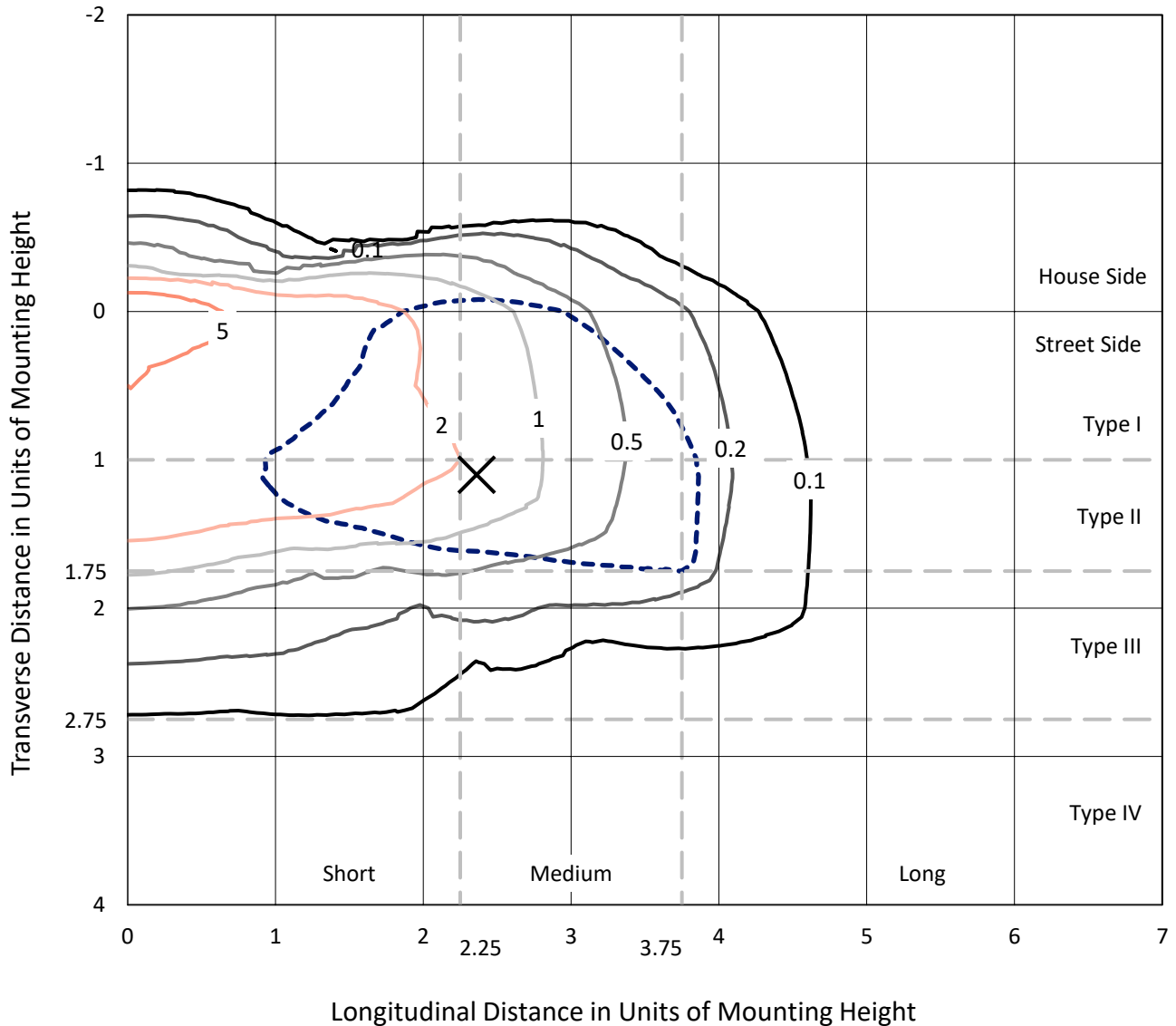
Lumens per Lamp: N/A
Luminaire Lumens: 14005 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 122.4
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

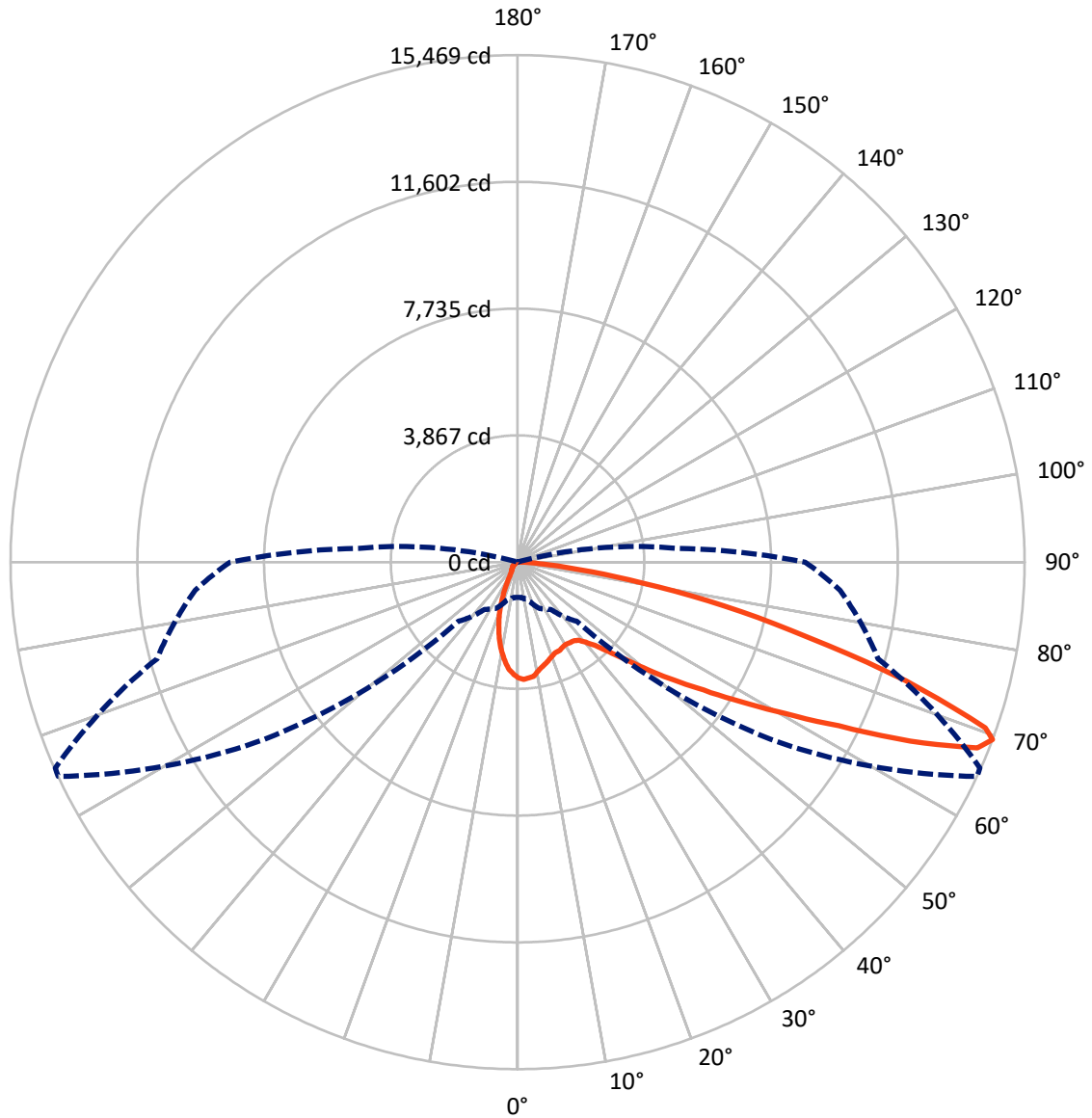
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.8 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	1698.9	0.0	1698.9
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	12306.1	0.0	12306.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	14005.0	0.0	14005.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.9	2.1
10°-20°	632.2	4.5
20°-30°	880.2	6.3
30°-40°	1247.3	8.9
40°-50°	1965.7	14.0
50°-60°	3189.7	22.8
60°-70°	3562.2	25.4
70°-80°	2005.9	14.3
80°-90°	232.8	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°	14005.0	100.0
0°-180°	14005.0	100.0

Coefficient of Utilization



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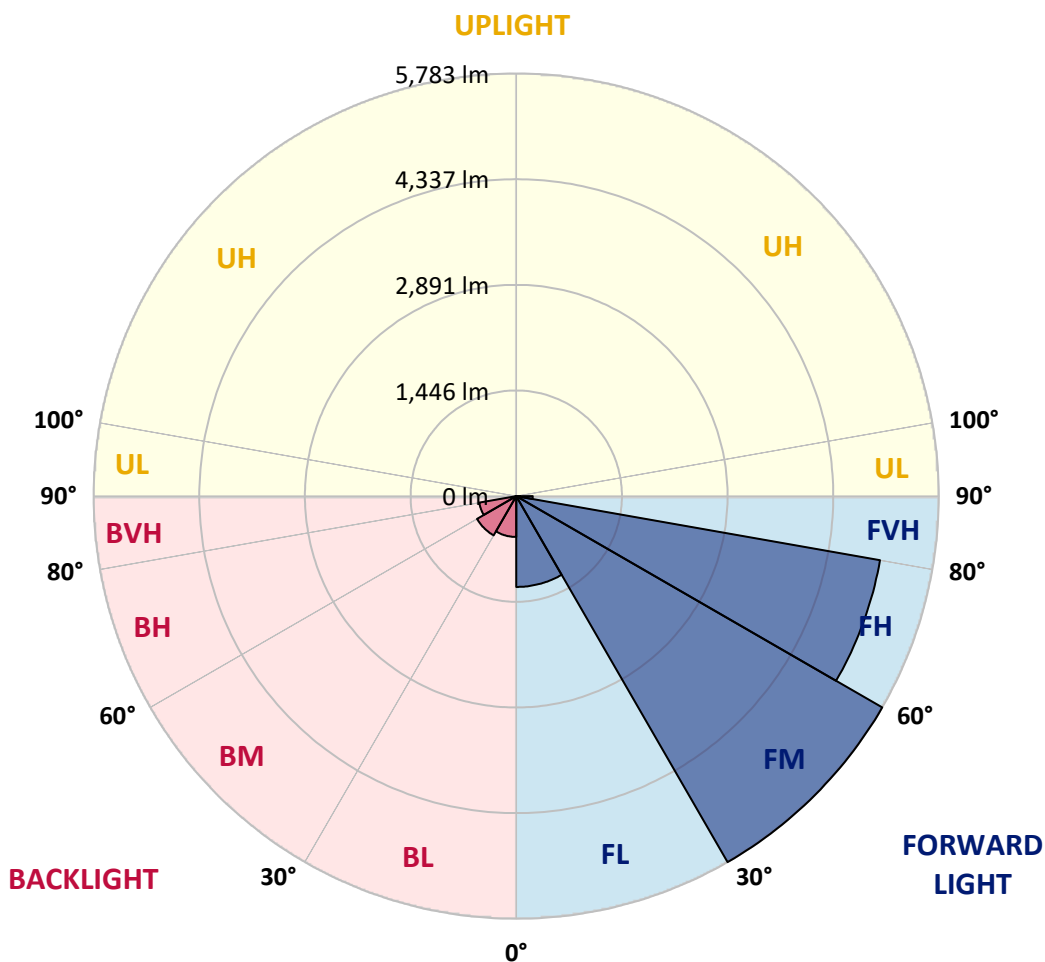
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1242.8	8.9			
FM (30°-60°)	5782.8	41.3			
FH (60°-80°)	5054.1	36.1			G3/7500
FVH (80°-90°)	226.3	1.6			G3/500
BL (0°-30°)	558.5	4.0	B2/1000		
BM (30°-60°)	619.9	4.4	B1/1000		
BH (60°-80°)	514.0	3.7	B2/1000		G2/1000
BVH (80°-90°)	6.4	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°	3531.0	3531.0	3531.0	3531.0	3531.0	3531.0	3531.0	3531.0	3531.0	3531.0	3531.0
2.5°	3400.6	3427.1	3434.6	3461.1	3474.3	3531.0	3563.1	3582.0	3572.5	3593.3	3595.2
5°	3158.8	3143.7	3183.4	3211.7	3272.1	3370.4	3470.5	3548.0	3583.9	3617.9	3612.2
7.5°	2900.0	2892.4	2932.1	2996.3	3051.1	3170.1	3330.7	3521.5	3514.0	3597.1	3621.7
10°	2722.4	2729.9	2743.2	2807.4	2888.6	3009.5	3209.8	3387.4	3427.1	3602.8	3651.9
12.5°	2559.9	2573.1	2597.7	2663.8	2758.3	2883.0	3077.6	3285.4	3345.8	3570.6	3668.9
15°	2507.0	2476.8	2525.9	2575.0	2673.3	2784.7	2949.1	3207.9	3234.4	3532.9	3697.2
17.5°	2463.6	2444.7	2467.3	2507.0	2610.9	2701.6	2856.5	3124.8	3173.9	3517.7	3693.4
20°	2476.8	2459.8	2469.2	2499.5	2546.7	2631.7	2775.3	3045.4	3098.3	3447.8	3687.8
22.5°	2514.6	2527.8	2510.8	2518.3	2533.5	2576.9	2731.8	2988.8	3034.1	3434.6	3719.9
25°	2684.6	2661.9	2639.3	2629.8	2541.0	2559.9	2718.6	2985.0	3017.1	3387.4	3693.4
27.5°	2862.2	2843.3	2833.8	2779.1	2658.1	2601.5	2720.5	2932.1	2975.5	3368.5	3661.3
30°	3077.6	3102.1	3064.3	2998.2	2830.1	2690.3	2741.3	2905.6	2966.1	3296.7	3640.5
32.5°	3304.3	3317.5	3336.4	3287.3	3070.0	2824.4	2803.6	2930.2	2934.0	3296.7	3593.3
35°	3561.2	3542.3	3591.4	3595.2	3404.4	3062.4	2922.6	2947.2	2986.9	3281.6	3576.3
37.5°	3782.2	3814.4	3871.0	3961.7	3765.2	3398.7	3107.8	3026.5	3043.6	3351.5	3589.5
40°	4024.1	4056.2	4184.6	4275.3	4163.9	3776.6	3389.3	3211.7	3224.9	3455.4	3657.6
42.5°	4290.4	4352.8	4505.8	4664.5	4634.3	4256.4	3752.0	3483.7	3478.1	3714.2	3797.4
45°	4651.3	4734.4	4900.7	5083.9	5110.4	4806.2	4235.7	3889.9	3908.8	4052.4	4086.4
47.5°	5153.8	5150.0	5312.5	5516.6	5669.6	5376.8	4813.8	4435.9	4434.0	4587.1	4515.3
50°	5639.4	5641.2	5684.7	5920.8	6317.6	6168.3	5529.8	5161.4	5140.6	5216.2	5100.9
52.5°	5864.2	5837.7	5805.6	6090.9	6816.3	7165.9	6436.6	5983.2	5966.2	5920.8	5890.6
55°	5628.0	5637.5	5635.6	5932.2	7078.9	8218.2	7600.4	6888.1	6859.8	6718.1	6759.7
57.5°	4870.4	4840.2	4906.3	5369.2	6778.6	8936.1	9264.8	8029.2	7955.6	7485.1	7390.7
60°	3625.4	3634.9	3689.7	4235.7	6032.3	9087.2	10857.4	9368.7	9051.3	8025.5	7895.1
62.5°	2531.6	2512.7	2533.5	2839.5	4313.1	8482.6	11934.3	10997.2	10691.2	8639.5	8563.9
65°	1811.8	1787.2	1870.3	2057.4	2590.1	6485.7	12087.3	13166.1	12892.1	9620.0	9438.6
67.5°	1303.6	1299.8	1396.1	1736.2	1840.1	3735.0	10953.8	15130.9	14964.6	10783.7	9971.4
69°	1078.8	1080.6	1173.2	1554.8	1757.0	2550.5	9425.4	15469.0	15438.8	11384.5	9871.2
70°	940.8	948.4	1056.1	1447.2	1723.0	2097.0	8125.6	15136.5	15106.3	11501.6	9540.6
72.5°	580.0	585.7	727.4	1160.0	1638.0	1711.6	4859.1	12383.9	12487.8	10965.1	8220.0
75°	277.7	279.6	381.6	838.8	1579.4	1622.8	2603.4	9138.2	9357.4	8852.9	6423.4
77.5°	147.4	147.4	183.3	445.9	1279.0	1526.5	1545.4	6446.1	6627.4	5597.8	3651.9
80°	73.7	75.6	111.5	232.4	793.5	1496.3	1207.2	3844.6	3942.8	2284.1	1137.3
82.5°	28.3	30.2	52.9	139.8	411.9	1263.9	1059.9	1891.1	1866.6	534.7	277.7
85°	3.8	3.8	18.9	83.1	175.7	557.3	874.7	789.7	763.2	117.1	134.1
87.5°	0.0	0.0	3.8	24.6	52.9	162.5	338.2	217.3	241.8	32.1	66.1
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°	3531.0	3531.0	3531.0	3531.0	3531.0	3531.0	3531.0	3531.0	3531.0	3531.0	3531.0
2.5°	3585.8	3546.1	3485.6	3427.1	3364.7	3289.2	3206.0	3175.8	3122.9	3119.1	3149.3
5°	3582.0	3517.7	3412.0	3287.3	3109.7	2975.5	2830.1	2724.3	2643.0	2590.1	2603.4
7.5°	3600.9	3523.4	3340.2	3071.9	2843.3	2576.9	2352.1	2197.2	2055.5	1985.6	1978.0
10°	3570.6	3466.7	3198.5	2822.5	2486.2	2114.0	1785.3	1577.5	1365.9	1288.5	1292.2
12.5°	3587.6	3442.2	3045.4	2565.6	2102.7	1619.1	1226.1	942.7	744.4	680.1	672.6
15°	3599.0	3389.3	2898.1	2257.6	1677.6	1103.3	710.4	534.7	472.3	461.0	459.1
17.5°	3555.5	3325.0	2690.3	1953.5	1243.1	670.7	472.3	436.4	425.1	417.5	413.7
20°	3553.6	3287.3	2510.8	1641.7	829.4	457.2	408.1	394.8	377.8	372.2	372.2
22.5°	3521.5	3207.9	2295.4	1299.8	529.0	393.0	366.5	345.7	326.8	319.3	317.4
25°	3512.1	3115.3	2093.3	976.7	402.4	351.4	324.9	294.7	272.0	260.7	255.0
27.5°	3485.6	3036.0	1889.2	687.7	351.4	313.6	279.6	247.5	221.0	204.0	202.1
30°	3391.2	2952.9	1662.5	476.1	319.3	277.7	239.9	202.1	175.7	164.4	160.6
32.5°	3351.5	2875.4	1415.0	366.5	290.9	245.6	202.1	168.1	147.4	136.0	134.1
35°	3304.3	2762.1	1175.1	319.3	264.5	213.5	170.0	141.7	124.7	115.2	115.2
37.5°	3309.9	2671.4	950.3	289.1	236.2	183.3	145.5	120.9	105.8	96.4	96.4
40°	3292.9	2599.6	738.7	262.6	209.7	156.8	122.8	102.0	88.8	79.3	77.5
42.5°	3370.4	2580.7	557.3	239.9	183.3	134.1	105.8	86.9	73.7	62.3	62.3
45°	3500.7	2610.9	434.5	219.2	156.8	115.2	90.7	71.8	58.6	51.0	49.1
47.5°	3848.4	2729.9	340.1	202.1	134.1	100.1	75.6	58.6	47.2	39.7	37.8
50°	4352.8	2996.3	289.1	177.6	113.4	85.0	62.3	45.3	37.8	30.2	28.3
52.5°	5070.7	3444.1	262.6	156.8	94.5	69.9	49.1	35.9	28.3	22.7	20.8
55°	5852.8	4003.3	238.0	132.2	79.3	56.7	39.7	28.3	20.8	15.1	13.2
57.5°	6463.1	4486.9	217.3	109.6	64.2	45.3	30.2	20.8	15.1	9.4	7.6
60°	7130.0	4827.0	190.8	86.9	52.9	34.0	22.7	15.1	11.3	5.7	5.7
62.5°	7817.6	5225.6	156.8	68.0	41.6	26.4	17.0	11.3	7.6	1.9	1.9
65°	8773.6	5537.3	120.9	52.9	32.1	18.9	13.2	9.4	3.8	0.0	0.0
67.5°	9043.7	5384.3	88.8	41.6	22.7	13.2	9.4	5.7	1.9	0.0	0.0
69°	8773.6	4849.7	77.5	35.9	18.9	11.3	7.6	3.8	1.9	0.0	0.0
70°	8280.5	4434.0	68.0	30.2	17.0	11.3	5.7	3.8	1.9	0.0	0.0
72.5°	6925.9	3400.6	52.9	22.7	13.2	9.4	5.7	3.8	0.0	0.0	0.0
75°	5080.1	2100.8	39.7	17.0	11.3	7.6	5.7	3.8	0.0	0.0	0.0
77.5°	2722.4	767.0	28.3	11.3	7.6	5.7	5.7	3.8	0.0	0.0	0.0
80°	746.2	226.7	20.8	7.6	5.7	3.8	3.8	1.9	0.0	0.0	0.0
82.5°	204.0	58.6	13.2	7.6	5.7	3.8	1.9	0.0	0.0	0.0	0.0
85°	109.6	22.7	7.6	5.7	3.8	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	56.7	7.6	5.7	3.8	3.8	1.9	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)