

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: P483799

Luminaire Tested: **IFLD-L-SA7C-830-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483799
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-830-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

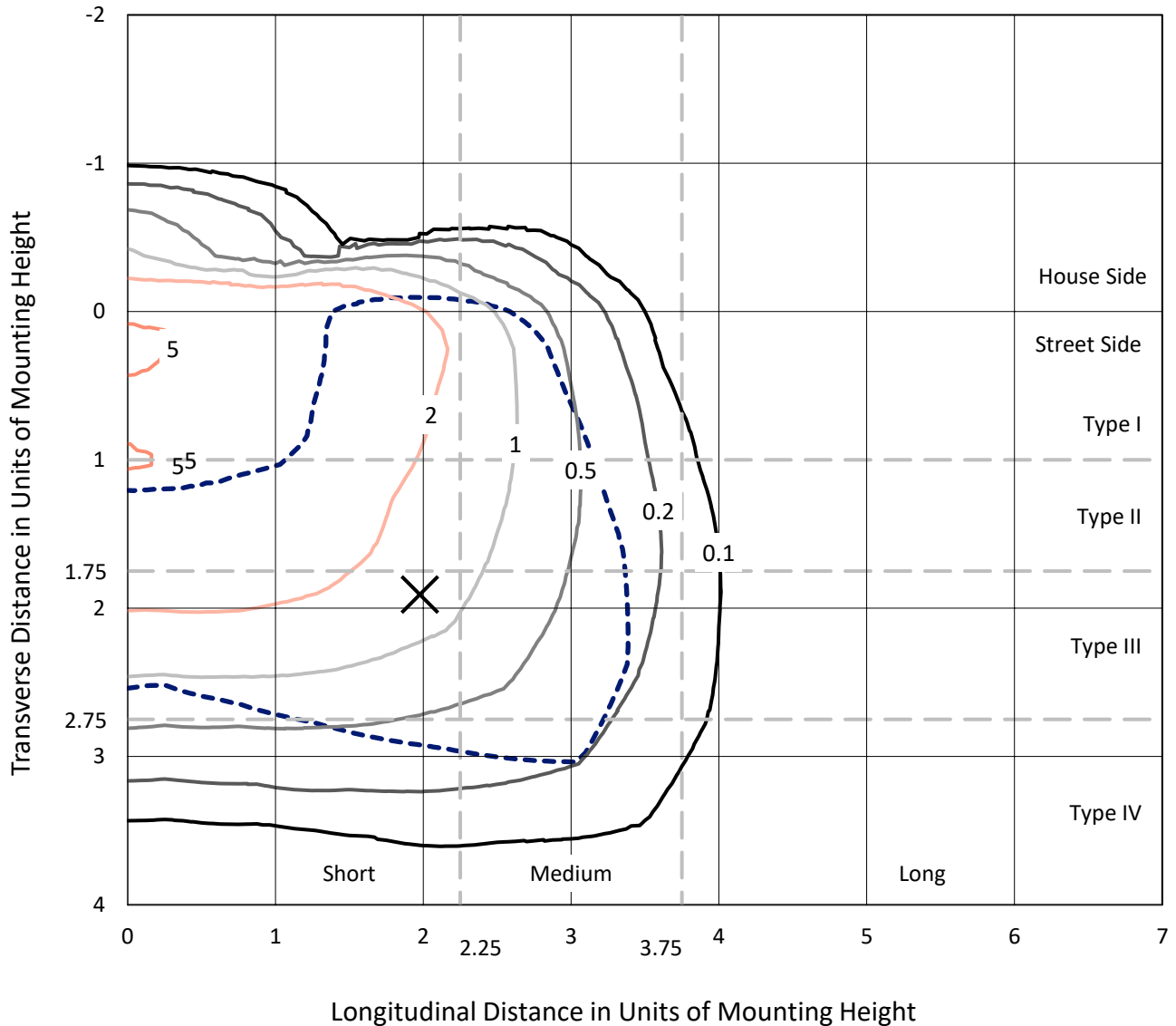
Lumens per Lamp: N/A
Luminaire Lumens: 25990.5 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 369
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

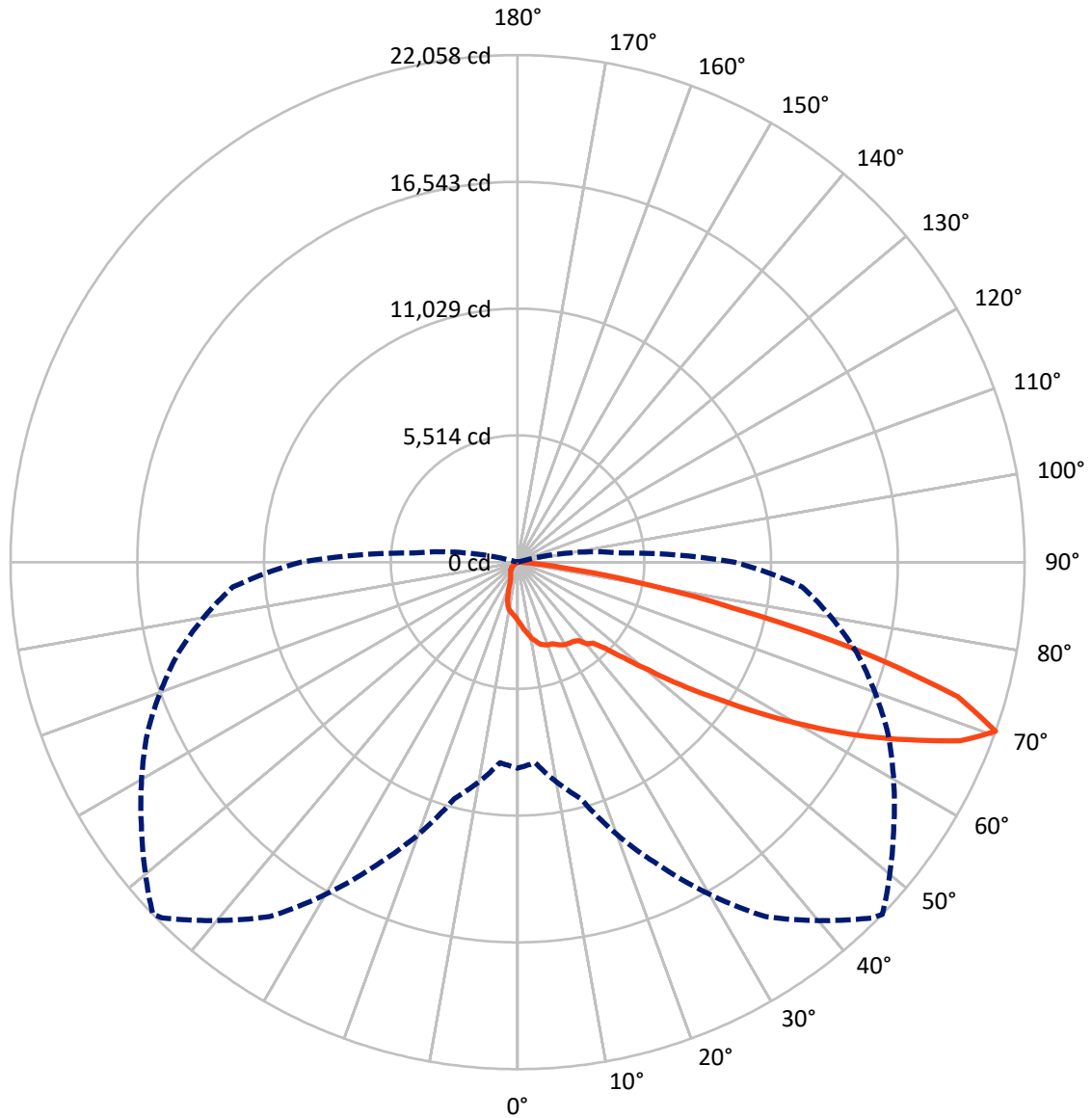
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2586.1	0.0	2586.1
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	23404.4	0.0	23404.4
	% Fixture	90.0	0.0	90.0
Total	Lumens	25990.5	0.0	25990.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.4	1.0
10°-20°	768.3	3.0
20°-30°	1230.6	4.7
30°-40°	1756.6	6.8
40°-50°	3033.1	11.7
50°-60°	5807.2	22.3
60°-70°	8599.5	33.1
70°-80°	4259.3	16.4
80°-90°	281.4	1.1
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°	25990.5	100.0
0°-180°	25990.5	100.0

Coefficient of Utilization



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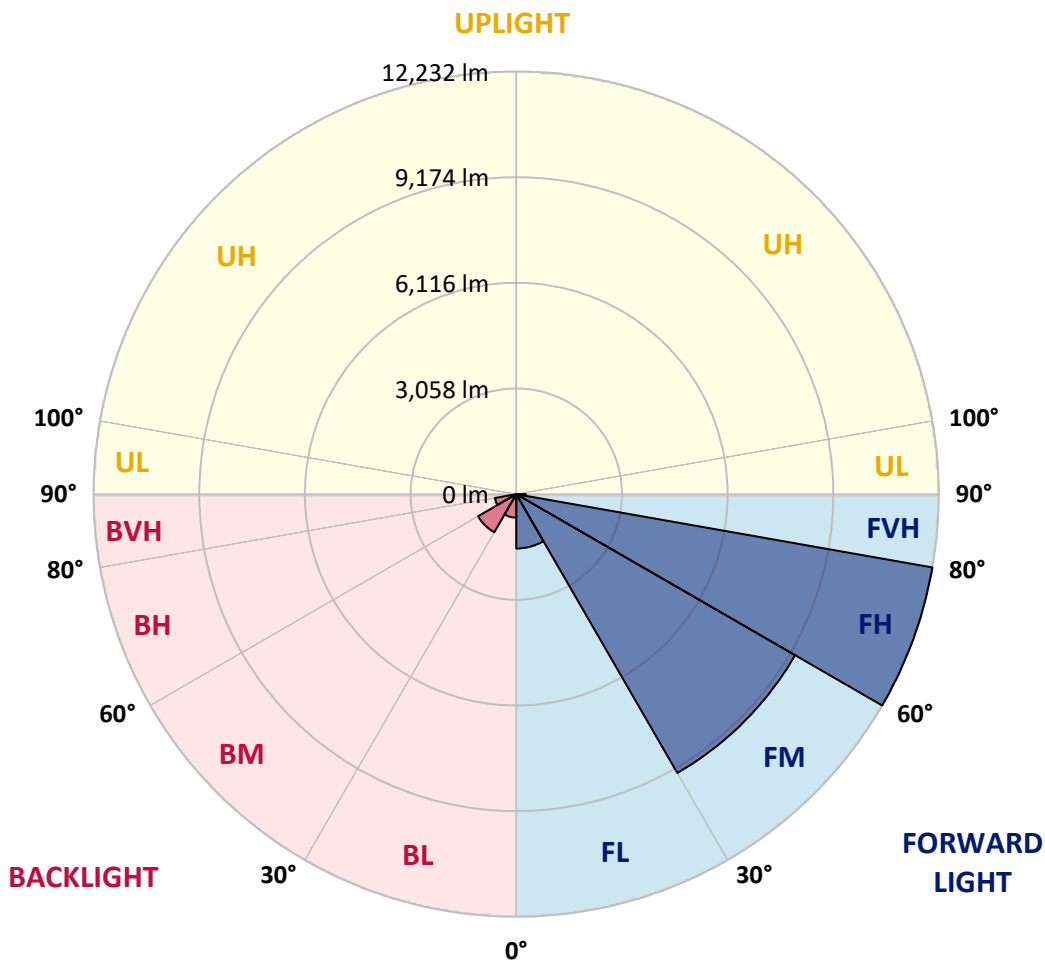
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1573.9	6.1			
FM (30°-60°)	9320.1	35.9			
FH (60°-80°)	12232.5	47.1			G5
FVH (80°-90°)	277.9	1.1			G3/500
BL (0°-30°)	679.4	2.6	B2/1000		
BM (30°-60°)	1276.8	4.9	B2/2500		
BH (60°-80°)	626.3	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.6	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2551.5	2551.5	2551.5	2551.5	2551.5	2551.5	2551.5	2551.5	2551.5	2551.5	2551.5
2.5°	2847.0	2828.3	2798.4	2787.1	2757.2	2742.3	2719.8	2708.6	2667.4	2626.3	2600.1
5°	3194.9	3150.0	3165.0	3120.1	3022.8	2944.3	2940.5	2854.5	2761.0	2686.1	2585.1
7.5°	3546.6	3509.2	3453.1	3389.5	3281.0	3165.0	3131.3	3049.0	2918.1	2787.1	2652.5
10°	3812.2	3786.0	3737.4	3647.6	3498.0	3367.0	3370.8	3232.3	3093.9	2944.3	2761.0
12.5°	3976.8	3988.1	3917.0	3827.2	3696.2	3531.6	3527.9	3434.4	3277.2	3120.1	2903.1
15°	4141.4	4182.6	4074.1	3969.3	3801.0	3681.3	3703.7	3591.5	3438.1	3258.5	3019.1
17.5°	4167.6	4178.9	4156.4	4003.0	3879.6	3778.5	3782.3	3707.5	3591.5	3397.0	3191.2
20°	4122.7	4115.3	4089.1	3976.8	3894.5	3834.7	3838.4	3819.7	3756.1	3599.0	3318.4
22.5°	3991.8	3991.8	3958.1	3883.3	3845.9	3902.0	3857.1	3928.2	3860.9	3767.3	3535.4
25°	3887.0	3928.2	3909.5	3860.9	3875.8	3950.6	3973.1	4040.4	4029.2	3913.2	3685.0
27.5°	3999.3	3950.6	3961.9	3905.7	3961.9	4074.1	4085.3	4134.0	4130.2	4036.7	3819.7
30°	4074.1	4119.0	4032.9	3909.5	3969.3	4160.1	4152.7	4216.3	4246.2	4134.0	3946.9
32.5°	4313.5	4276.1	4205.0	4040.4	4047.9	4156.4	4190.1	4272.4	4291.1	4223.7	4070.4
35°	4803.6	4747.5	4437.0	4190.1	4152.7	4205.0	4227.5	4388.4	4422.0	4347.2	4201.3
37.5°	5559.3	5432.1	5058.0	4511.8	4343.5	4332.2	4332.2	4545.5	4672.7	4500.6	4395.8
40°	6640.5	6460.9	6056.9	5106.7	4594.1	4639.0	4683.9	4799.9	4784.9	4672.7	4650.2
42.5°	8017.3	7878.8	7441.1	6105.5	5073.0	4848.5	4811.1	4968.2	5203.9	5159.0	5144.1
45°	9165.8	9173.3	8892.7	7474.8	5899.8	5331.1	5357.3	5477.0	5873.6	5839.9	5836.2
47.5°	10003.8	9899.1	9857.9	8795.4	7104.4	6247.7	6210.3	6292.6	6808.9	7022.1	7119.4
50°	10767.0	10695.9	10598.6	10078.6	8552.2	7396.2	7358.8	7366.3	8155.7	8455.0	8694.4
52.5°	11713.5	11803.3	11481.6	11163.6	10426.6	8888.9	8847.8	8701.9	9682.1	10093.6	10377.9
55°	12880.7	12712.4	12349.5	12514.1	12218.6	10501.4	10426.6	10254.5	11421.7	11593.8	11893.1
57.5°	13138.9	13011.7	13385.8	13969.4	14253.7	12394.4	12364.5	12053.9	12884.5	12727.4	13572.8
60°	13782.4	13816.0	14336.0	15495.8	15989.6	14579.2	14433.3	13887.1	14302.4	14332.3	15233.9
62.5°	14444.5	14366.0	15529.5	16644.3	17403.8	16648.1	16599.4	15514.5	15985.9	15604.3	16797.7
65°	13958.2	14077.9	15742.7	17609.5	19236.9	18672.0	18630.9	17082.0	17340.2	16865.0	17433.7
67.5°	12229.8	11986.6	14317.3	17168.1	20179.7	20793.2	20748.3	18791.7	18103.4	16857.6	16113.1
70°	8963.8	8754.3	10654.8	14538.1	18829.1	21878.2	22057.7	19981.4	17792.9	15286.3	12431.8
72.5°	4392.1	4395.8	5970.9	9857.9	14897.2	19940.3	20030.1	18320.4	15286.3	11268.3	7040.8
75°	1298.2	1313.1	2211.0	4833.5	9629.7	15144.1	15245.1	13905.8	10594.9	5821.2	2401.8
77.5°	475.1	475.1	733.3	1814.5	4803.6	9558.6	9551.1	8537.3	5364.8	1971.6	561.2
80°	246.9	258.1	381.6	740.7	2080.1	4979.5	5166.5	4178.9	2038.9	830.5	164.6
82.5°	101.0	112.2	209.5	381.6	998.9	1747.1	1911.7	1638.6	886.6	579.9	74.8
85°	29.9	33.7	101.0	213.2	392.8	437.7	486.3	549.9	557.4	448.9	33.7
87.5°	3.7	3.7	41.2	71.1	86.0	93.5	108.5	108.5	284.3	314.3	18.7
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°	2551.5	2551.5	2551.5	2551.5	2551.5	2551.5	2551.5	2551.5	2551.5	2551.5	2551.5
2.5°	2570.2	2551.5	2521.5	2454.2	2439.2	2390.6	2386.8	2342.0	2356.9	2327.0	2315.8
5°	2551.5	2510.3	2428.0	2375.6	2323.2	2289.6	2267.1	2248.4	2244.7	2229.7	2222.2
7.5°	2585.1	2529.0	2401.8	2319.5	2229.7	2199.8	2151.2	2147.4	2121.2	2095.0	2095.0
10°	2697.4	2596.3	2457.9	2319.5	2203.5	2106.3	1994.0	1911.7	1881.8	1814.5	1821.9
12.5°	2787.1	2697.4	2495.3	2353.2	2177.3	1956.6	1709.7	1518.9	1429.1	1343.1	1376.7
15°	2914.3	2783.4	2566.4	2360.7	2076.3	1694.7	1290.7	1077.4	995.1	976.4	972.7
17.5°	3052.8	2914.3	2656.2	2342.0	1870.6	1309.4	950.2	826.8	841.8	864.2	860.5
20°	3206.2	3037.8	2723.5	2278.4	1545.1	950.2	778.2	774.4	796.9	830.5	838.0
22.5°	3367.0	3221.1	2805.9	2087.6	1152.3	763.2	748.2	748.2	763.2	804.3	796.9
25°	3546.6	3352.1	2847.0	1792.0	826.8	703.3	710.8	725.8	733.3	766.9	770.7
27.5°	3685.0	3498.0	2858.2	1436.6	673.4	651.0	669.7	688.4	699.6	725.8	737.0
30°	3812.2	3681.3	2798.4	1070.0	617.3	606.1	613.5	639.7	662.2	684.6	684.6
32.5°	3973.1	3786.0	2659.9	759.5	583.6	564.9	561.2	572.4	598.6	624.8	624.8
35°	4137.7	3961.9	2439.2	609.8	553.7	527.5	512.5	501.3	512.5	531.2	546.2
37.5°	4377.1	4227.5	2162.4	561.2	531.2	493.8	463.9	437.7	419.0	415.3	426.5
40°	4717.6	4526.8	1807.0	527.5	505.1	460.2	415.3	370.4	329.2	303.0	306.8
42.5°	5233.9	4968.2	1421.6	508.8	486.3	422.7	359.1	295.5	243.2	217.0	217.0
45°	5970.9	5551.8	1043.8	490.1	463.9	377.9	295.5	220.7	168.4	153.4	157.1
47.5°	7082.0	6255.2	748.2	460.2	434.0	329.2	232.0	157.1	123.5	116.0	119.7
50°	8533.5	7089.5	583.6	426.5	396.6	276.8	172.1	116.0	97.3	93.5	97.3
52.5°	10056.2	7931.2	512.5	396.6	340.4	220.7	127.2	93.5	82.3	78.6	82.3
55°	11358.1	8473.7	445.2	351.7	273.1	164.6	101.0	82.3	71.1	59.9	59.9
57.5°	12675.0	8746.8	351.7	291.8	202.0	123.5	86.0	71.1	59.9	48.6	44.9
60°	13744.9	8941.3	250.7	217.0	142.2	97.3	74.8	63.6	48.6	37.4	33.7
62.5°	14448.3	8383.9	183.3	164.6	104.8	82.3	63.6	52.4	37.4	26.2	26.2
65°	14100.3	7613.2	142.2	116.0	78.6	63.6	52.4	37.4	26.2	15.0	11.2
67.5°	12652.5	6202.8	116.0	86.0	59.9	48.6	41.2	29.9	15.0	3.7	3.7
70°	9438.9	4545.5	93.5	63.6	48.6	37.4	29.9	18.7	7.5	3.7	0.0
72.5°	5162.8	2487.9	74.8	52.4	37.4	29.9	22.4	15.0	7.5	0.0	0.0
75°	1706.0	662.2	56.1	37.4	22.4	18.7	15.0	11.2	3.7	0.0	0.0
77.5°	411.5	172.1	44.9	33.7	18.7	11.2	7.5	3.7	3.7	0.0	0.0
80°	127.2	71.1	33.7	22.4	15.0	11.2	3.7	0.0	0.0	0.0	0.0
82.5°	52.4	33.7	15.0	15.0	11.2	3.7	0.0	0.0	0.0	0.0	0.0
85°	26.2	18.7	11.2	7.5	7.5	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	18.7	7.5	3.7	3.7	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)