

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: P483097

Luminaire Tested: **IFLD-L-SA7C-722-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483097
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-722-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

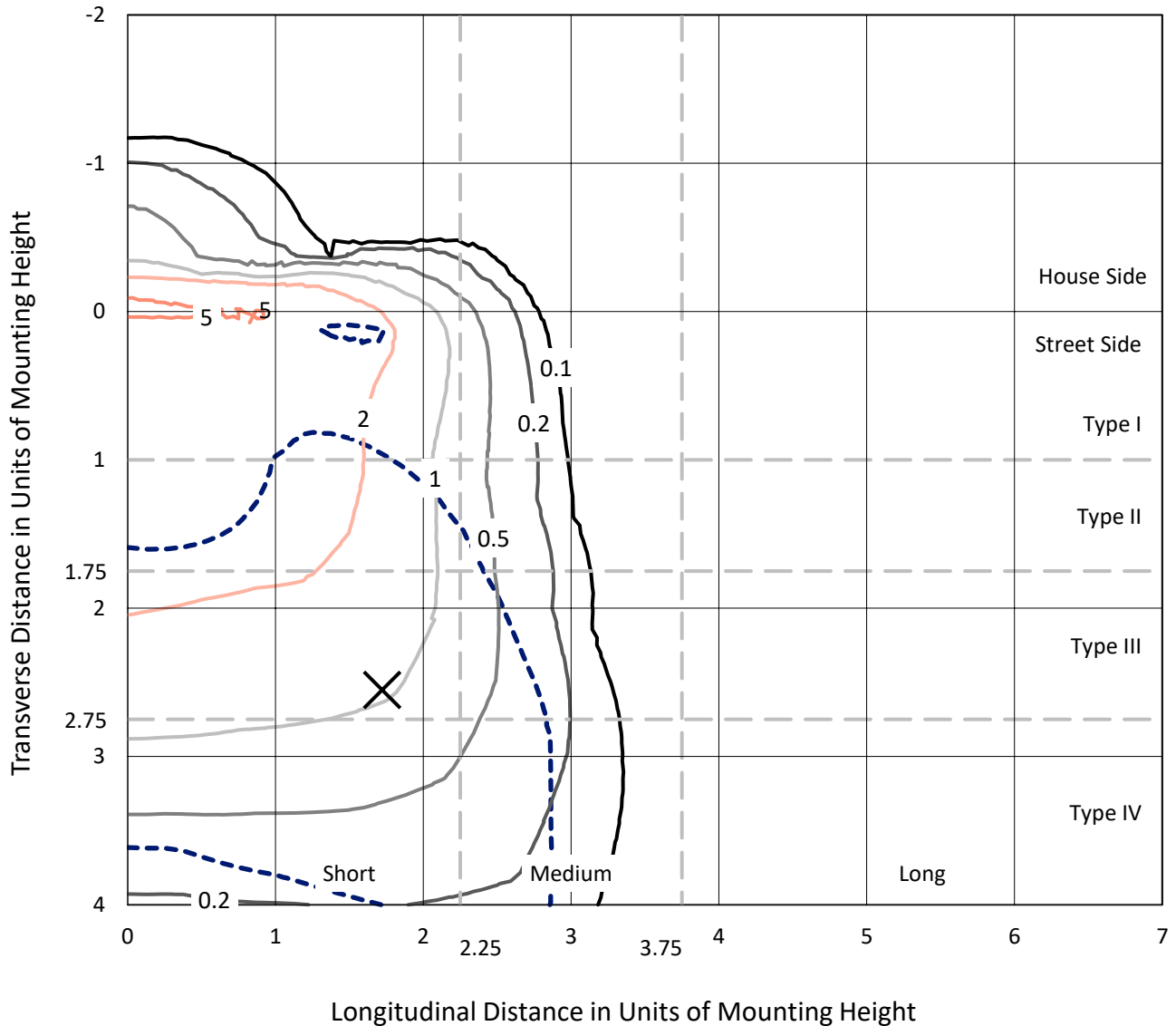
Lumens per Lamp: N/A
Luminaire Lumens: 23611.8 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

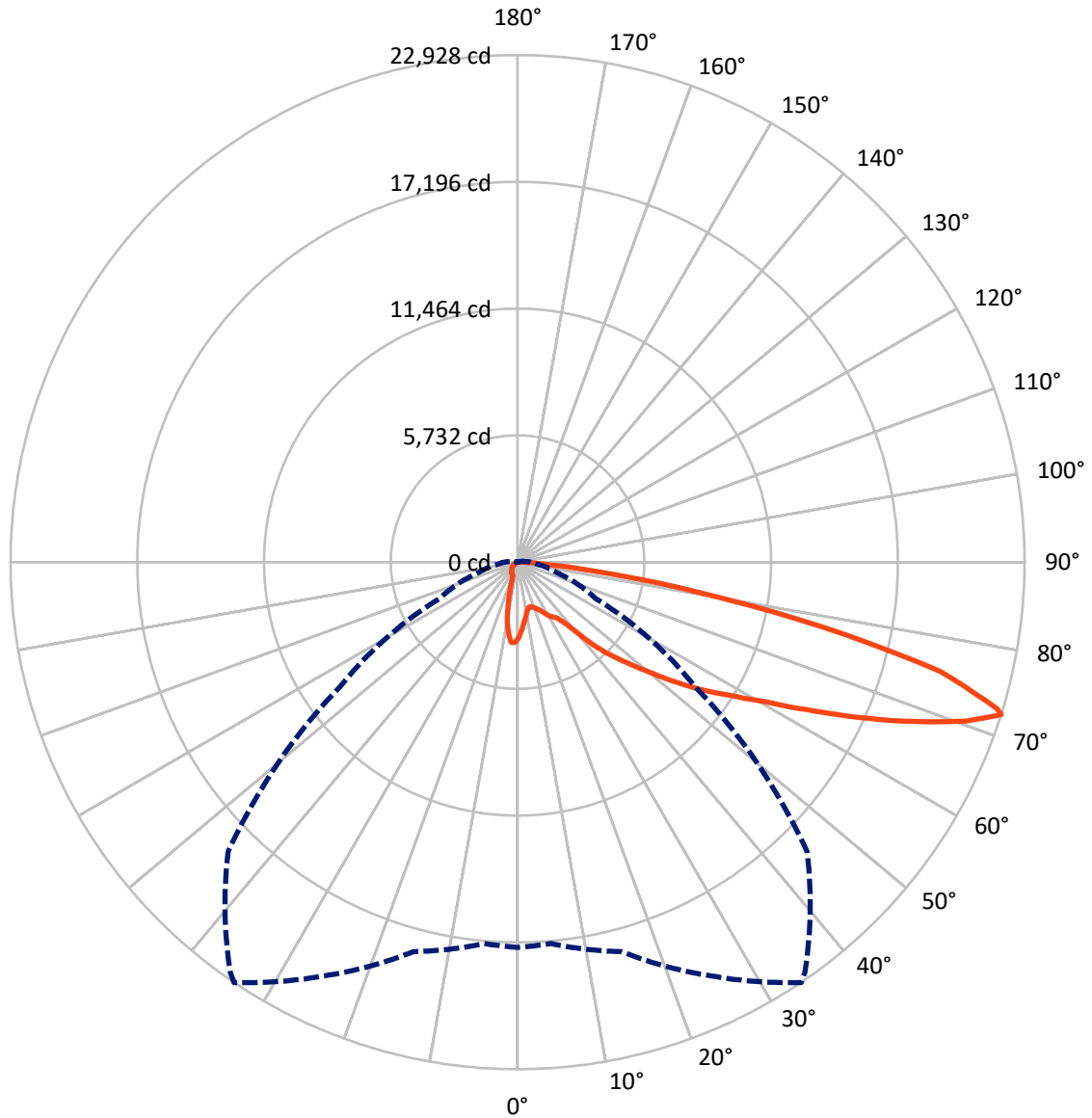
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2417.3	0.0	2417.3
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	21194.5	0.0	21194.5
	% Fixture	89.8	0.0	89.8
Total	Lumens	23611.8	0.0	23611.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.9	1.3
10°-20°	678.9	2.9
20°-30°	1024.7	4.3
30°-40°	1663.0	7.0
40°-50°	3127.1	13.2
50°-60°	5112.9	21.7
60°-70°	6796.8	28.8
70°-80°	4551.8	19.3
80°-90°	356.7	1.5
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°	23611.8	100.0
0°-180°	23611.8	100.0

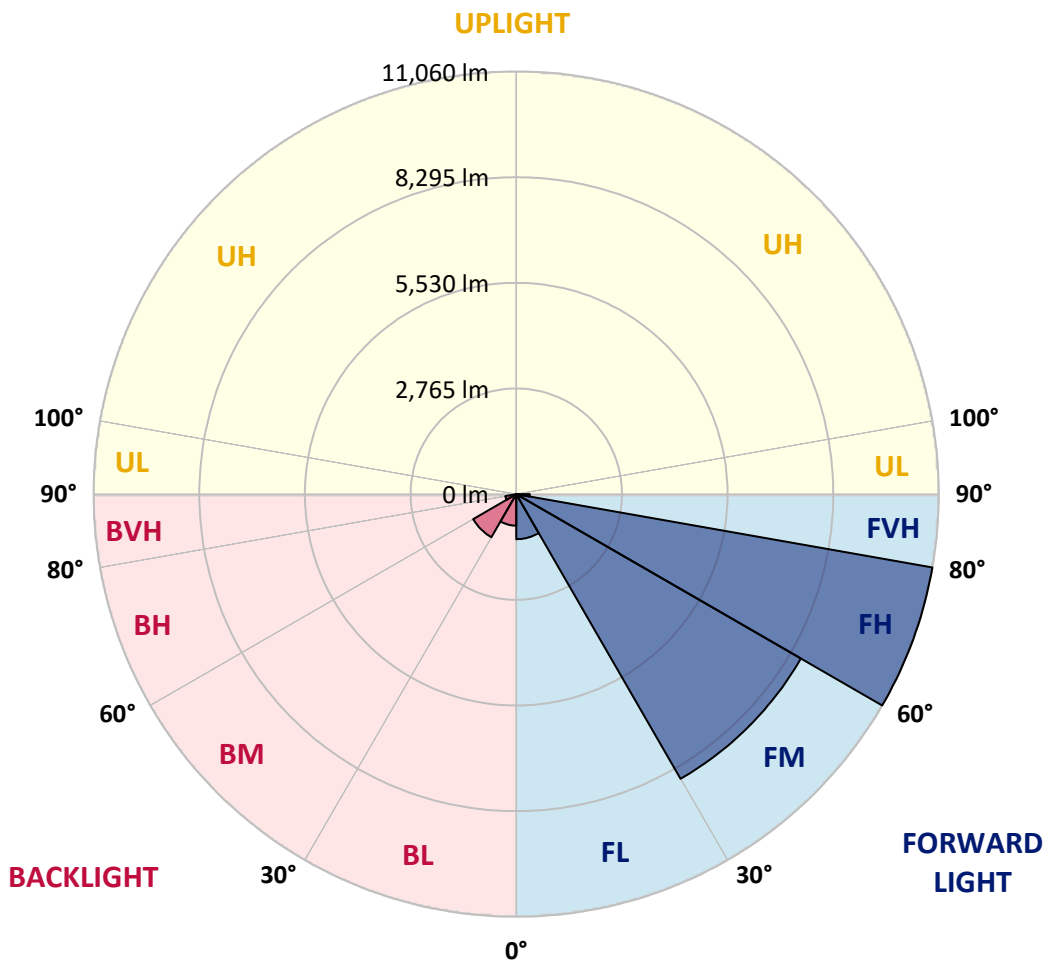


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1178.7	5.0			
FM (30°-60°)	8601.7	36.4			
FH (60°-80°)	11059.6	46.8			G4/12000
FVH (80°-90°)	354.4	1.5			G3/500
BL (0°-30°)	824.8	3.5	B2/1000		
BM (30°-60°)	1301.2	5.5	B2/2500		
BH (60°-80°)	289.1	1.2	B1/500		G1/500
BVH (80°-90°)	2.3	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4
2.5°	3055.0	3048.2	3068.7	3102.8	3137.0	3123.3	3188.2	3256.4	3304.2	3369.1	3447.6
5°	2669.3	2686.4	2706.9	2775.1	2819.5	2829.8	2949.2	3038.0	3184.8	3335.0	3474.9
7.5°	2317.7	2338.2	2379.2	2454.3	2546.4	2570.3	2689.8	2867.3	3058.5	3256.4	3485.1
10°	2061.7	2082.2	2126.6	2174.4	2297.3	2297.3	2461.1	2706.9	2956.1	3188.2	3488.6
12.5°	2007.1	2017.4	2013.9	2051.5	2130.0	2147.1	2307.5	2577.2	2867.3	3164.3	3543.2
15°	2072.0	2078.8	2044.7	2024.2	2092.5	2109.5	2259.7	2498.7	2809.3	3177.9	3631.9
17.5°	2201.7	2177.8	2109.5	2078.8	2136.8	2147.1	2287.0	2495.2	2802.5	3215.5	3734.3
20°	2276.8	2304.1	2184.6	2126.6	2208.5	2222.2	2372.4	2549.9	2836.6	3280.3	3877.7
22.5°	2409.9	2423.6	2263.1	2225.6	2304.1	2304.1	2474.8	2659.1	2918.5	3386.2	4048.4
25°	2597.6	2580.6	2392.8	2355.3	2430.4	2461.1	2631.8	2833.2	3044.8	3485.1	4205.4
27.5°	2744.4	2754.7	2601.1	2502.1	2628.4	2648.8	2833.2	3020.9	3140.4	3567.1	4396.5
30°	2962.9	2942.4	2778.6	2665.9	2822.9	2826.3	3003.8	3198.4	3324.7	3713.8	4683.3
32.5°	3222.3	3181.3	2993.6	2833.2	2959.5	2990.2	3171.1	3454.4	3611.4	3990.3	5127.0
35°	3771.9	3672.9	3365.7	3116.5	3126.7	3140.4	3420.3	3826.5	4007.4	4341.9	5721.0
37.5°	4574.0	4533.1	4184.9	3710.4	3529.5	3488.6	3802.6	4318.0	4543.3	4806.2	6492.4
40°	5369.4	5311.3	4987.1	4628.7	4301.0	4219.0	4376.1	4970.0	5174.8	5451.3	7284.3
42.5°	6253.5	6151.1	5768.7	5478.6	5273.8	5185.0	5123.6	5789.2	6021.3	6209.1	8059.2
45°	7147.8	6980.5	6427.5	6205.7	6096.4	6048.7	6041.8	6820.1	6960.0	6997.6	8919.4
47.5°	7932.9	7752.0	7250.2	7001.0	6919.1	6905.4	7287.7	8008.0	7898.7	7799.8	9878.6
50°	8537.1	8421.0	8059.2	7970.4	7909.0	7885.1	8779.4	9230.0	8724.8	8550.7	10721.7
52.5°	9472.4	9212.9	8803.3	8834.0	9049.1	9052.5	10291.6	10390.6	9410.9	9066.2	11517.0
55°	10219.9	10049.2	9714.7	9670.3	10237.0	10298.4	11646.7	11271.2	9793.2	9557.7	11810.6
57.5°	11100.6	11022.1	10779.7	10786.5	11380.5	11510.2	12851.7	12015.4	10110.7	9875.1	11854.9
60°	12373.8	12148.5	12022.2	12080.2	12780.0	12906.3	14019.1	12551.3	10264.3	10083.4	11745.7
62.5°	13780.1	13517.3	13380.8	13677.7	14698.4	14718.8	14906.6	13025.8	10168.7	10138.0	11042.5
65°	15473.2	15213.8	15104.6	15701.9	16913.7	16838.6	16152.5	13227.2	9864.9	9588.4	9195.9
67.5°	17159.5	17002.4	16777.2	17729.5	19238.3	19238.3	17446.2	13152.1	9069.6	7697.4	6014.5
70°	17958.2	18067.4	18425.9	19921.0	21521.9	21358.0	18722.8	12288.5	6751.8	4133.7	2365.5
72°	17425.7	17313.1	18238.1	20637.8	22928.2	22658.6	18507.8	9769.3	3901.6	1812.5	822.6
72.5°	16510.9	16616.7	17889.9	20538.8	22665.4	22887.3	17982.1	9011.5	3208.7	1443.9	621.2
75°	10124.3	10305.2	13353.5	17439.4	19750.3	19501.1	13909.9	4294.1	1232.3	614.4	221.9
77.5°	3696.8	3847.0	6478.7	10974.3	14046.4	13889.4	8048.9	1525.8	669.0	457.4	112.6
80°	962.6	1041.1	2201.7	5062.2	8260.6	8270.8	3369.1	611.0	454.0	375.5	68.3
82.5°	191.2	211.6	675.9	1969.6	3860.6	3809.4	1065.0	327.7	341.3	307.2	47.8
85°	23.9	30.7	143.4	669.0	1249.3	1119.6	262.8	163.8	252.6	238.9	30.7
87.5°	3.4	3.4	34.1	153.6	262.8	256.0	54.6	51.2	112.6	146.8	17.1
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°	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4
2.5°	3492.0	3505.6	3553.4	3594.4	3642.2	3655.8	3635.3	3669.5	3621.7	3649.0	3655.8
5°	3498.8	3577.3	3666.1	3724.1	3710.4	3676.3	3649.0	3556.8	3492.0	3468.1	3519.3
7.5°	3546.6	3635.3	3730.9	3730.9	3655.8	3478.3	3307.6	3143.8	3007.3	2939.0	2997.0
10°	3608.0	3700.2	3799.2	3669.5	3389.6	3065.3	2822.9	2515.7	2307.5	2198.3	2208.5
12.5°	3690.0	3819.7	3853.8	3553.4	3089.2	2607.9	2167.5	1740.9	1542.9	1385.9	1389.3
15°	3795.8	3922.1	3819.7	3300.8	2706.9	1996.9	1467.8	1061.6	904.6	822.6	822.6
17.5°	3935.7	4031.3	3809.4	3068.7	2191.4	1365.4	901.2	716.8	682.7	669.0	669.0
20°	4099.6	4171.2	3710.4	2706.9	1628.2	877.3	662.2	641.7	645.1	638.3	638.3
22.5°	4283.9	4307.8	3597.8	2287.0	1102.5	648.6	617.8	621.2	624.7	617.8	621.2
25°	4478.5	4413.6	3433.9	1795.5	733.9	590.5	597.4	604.2	607.6	611.0	611.0
27.5°	4696.9	4567.2	3205.2	1314.2	573.5	556.4	576.9	597.4	600.8	600.8	597.4
30°	5017.8	4802.7	2983.4	890.9	505.2	518.8	553.0	576.9	593.9	593.9	590.5
32.5°	5424.0	5048.5	2672.7	607.6	467.6	474.5	501.8	549.6	587.1	590.5	580.3
35°	5987.2	5345.5	2348.5	484.7	440.3	443.7	460.8	498.4	563.2	583.7	580.3
37.5°	6581.2	5683.4	1945.7	436.9	419.9	416.4	426.7	457.4	515.4	566.6	570.0
40°	7212.6	6038.4	1522.4	413.0	402.8	396.0	399.4	413.0	457.4	522.3	535.9
42.5°	7806.6	6359.3	1143.5	389.1	385.7	378.9	378.9	382.3	406.2	450.6	457.4
45°	8448.3	6622.1	870.4	372.1	361.8	365.2	351.6	344.8	361.8	365.2	361.8
47.5°	9049.1	6885.0	696.3	351.6	341.3	341.3	324.3	310.6	310.6	279.9	276.5
50°	9612.3	7028.3	556.4	324.3	320.9	317.5	293.6	269.7	249.2	211.6	204.8
52.5°	10079.9	7021.5	430.1	290.1	300.4	290.1	252.6	218.5	187.7	153.6	146.8
55°	10219.9	6693.8	324.3	238.9	256.0	242.4	201.4	170.7	136.5	109.2	105.8
57.5°	10100.4	6195.4	245.8	184.3	198.0	184.3	153.6	126.3	95.6	75.1	68.3
60°	9701.1	5611.7	191.2	143.4	150.2	140.0	116.1	95.6	68.3	47.8	41.0
62.5°	8943.3	4881.2	146.8	112.6	109.2	109.2	88.7	71.7	47.8	27.3	23.9
65°	7338.9	3806.0	112.6	78.5	78.5	78.5	68.3	51.2	30.7	13.7	6.8
67.5°	4608.2	2215.3	92.2	61.4	58.0	58.0	47.8	34.1	17.1	3.4	0.0
70°	1734.0	812.4	71.7	47.8	44.4	44.4	34.1	20.5	10.2	0.0	0.0
72°	597.4	310.6	58.0	34.1	34.1	30.7	23.9	17.1	6.8	0.0	0.0
72.5°	491.5	249.2	54.6	34.1	30.7	30.7	23.9	17.1	6.8	0.0	0.0
75°	177.5	102.4	37.5	23.9	20.5	20.5	17.1	10.2	3.4	0.0	0.0
77.5°	88.7	64.9	30.7	20.5	17.1	10.2	10.2	6.8	3.4	0.0	0.0
80°	54.6	41.0	17.1	13.7	10.2	6.8	3.4	3.4	0.0	0.0	0.0
82.5°	37.5	23.9	10.2	10.2	6.8	3.4	0.0	0.0	0.0	0.0	0.0
85°	23.9	10.2	6.8	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	6.8	3.4	0.0	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)