

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: P483288

Luminaire Tested: **IFLD-M-SA4D-750-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483288
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-750-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

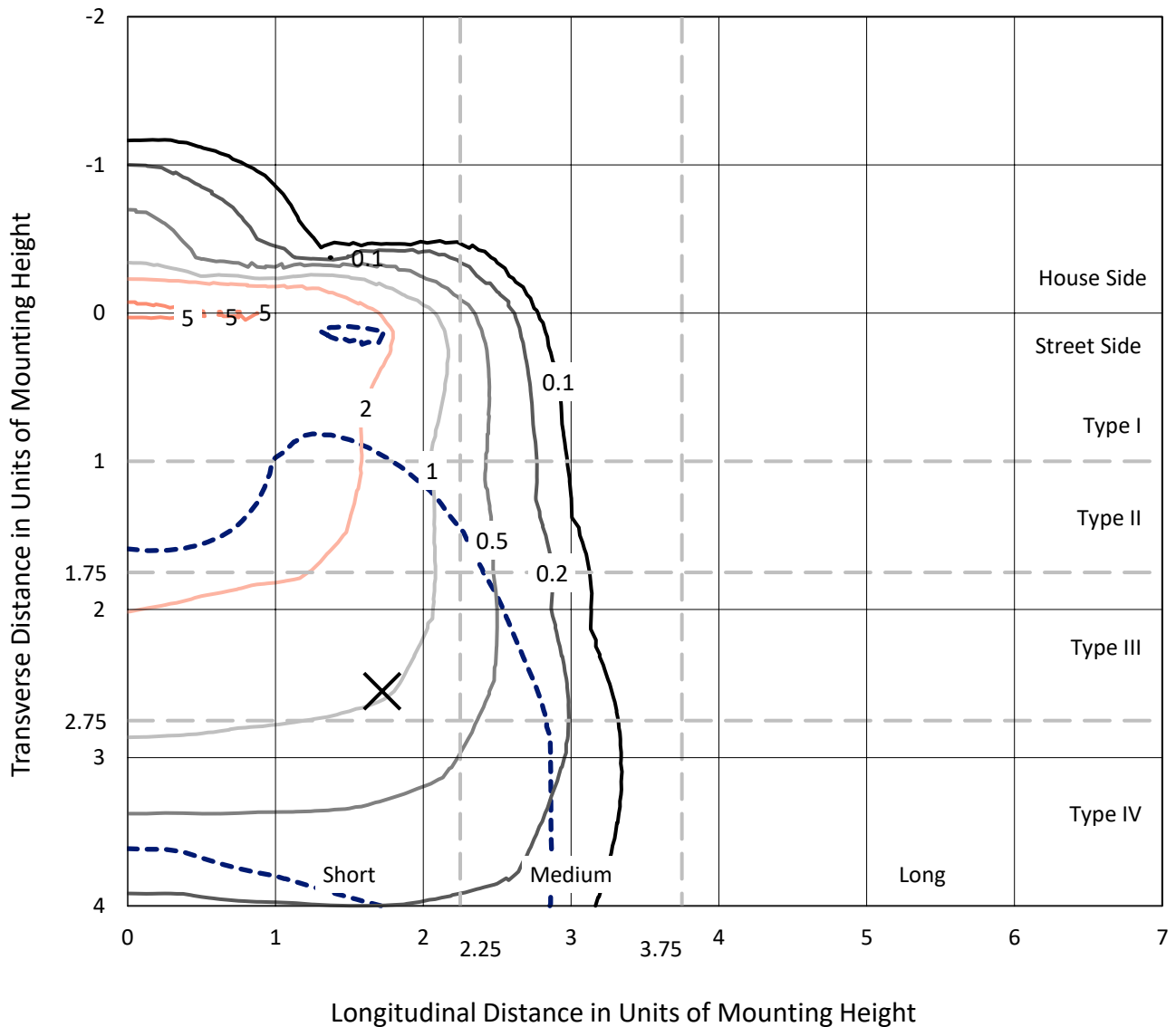
Lumens per Lamp: N/A
Luminaire Lumens: 23139 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7
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

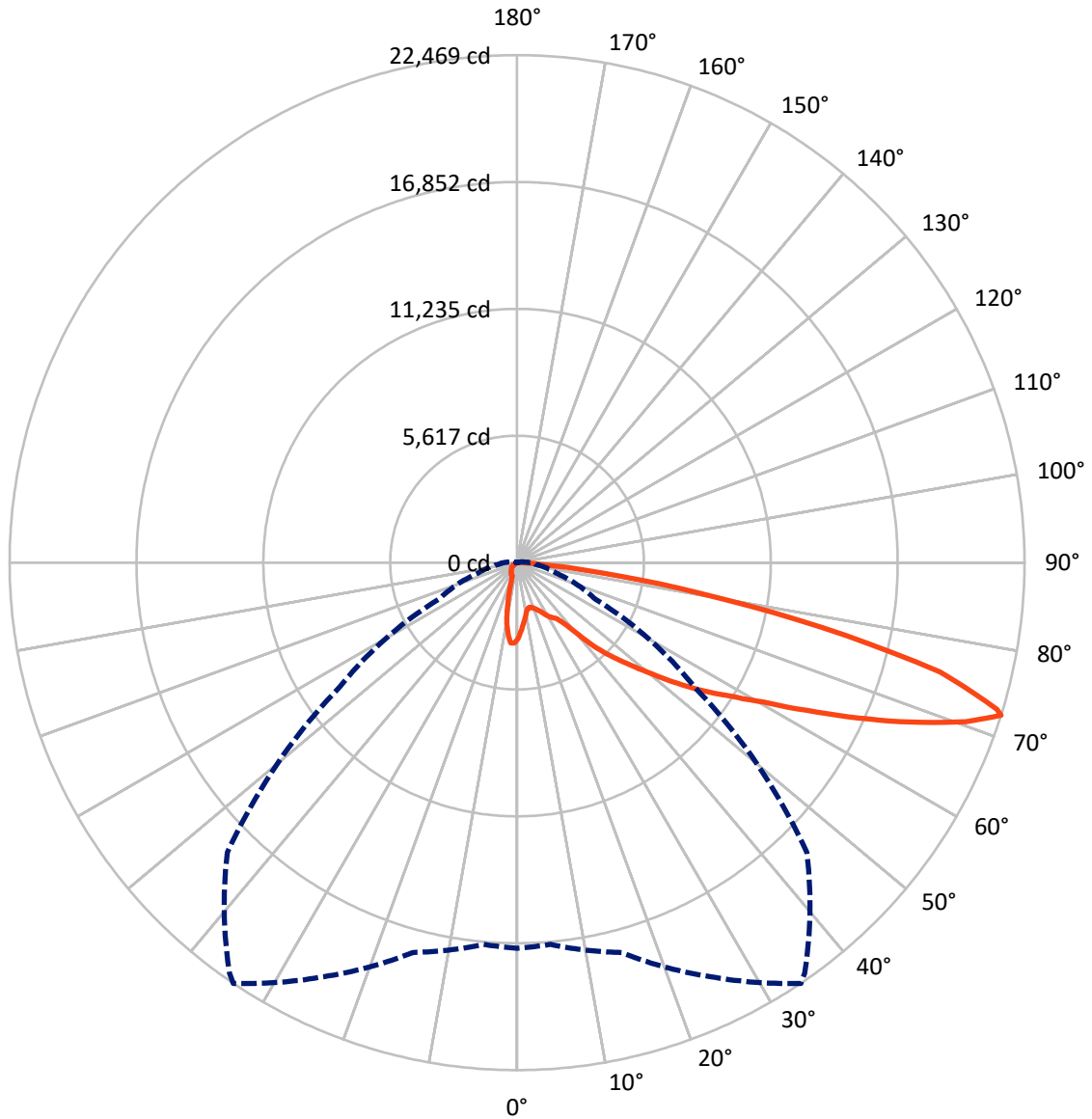
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	2368.9	0.0	2368.9
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	20770.1	0.0	20770.1
	% Fixture	89.8	0.0	89.8
Total	Lumens	23139.0	0.0	23139.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.9	1.3
10°-20°	665.3	2.9
20°-30°	1004.2	4.3
30°-40°	1629.7	7.0
40°-50°	3064.5	13.2
50°-60°	5010.5	21.7
60°-70°	6660.8	28.8
70°-80°	4460.7	19.3
80°-90°	349.6	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°	23139.0	100.0
0°-180°	23139.0	100.0



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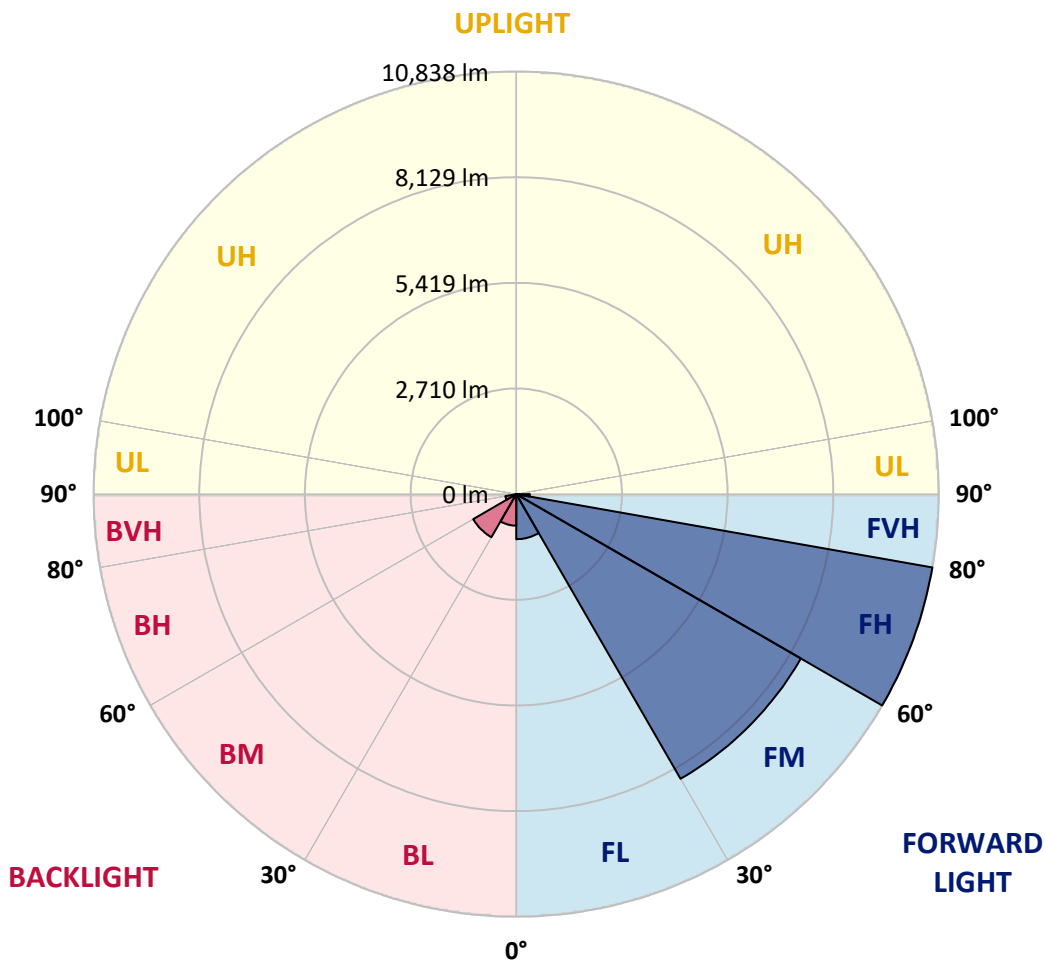
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1155.1	5.0			
FM (30°-60°)	8429.5	36.4			
FH (60°-80°)	10838.1	46.8			G4/12000
FVH (80°-90°)	347.4	1.5			G3/500
BL (0°-30°)	808.3	3.5	B2/1000		
BM (30°-60°)	1275.1	5.5	B2/2500		
BH (60°-80°)	283.3	1.2	B1/500		G1/500
BVH (80°-90°)	2.2	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°	3385.3	3385.3	3385.3	3385.3	3385.3	3385.3	3385.3	3385.3	3385.3	3385.3	3385.3
2.5°	2993.9	2987.2	3007.3	3040.7	3074.2	3060.8	3124.3	3191.2	3238.1	3301.6	3378.6
5°	2615.9	2632.6	2652.7	2719.6	2763.1	2773.1	2890.2	2977.2	3121.0	3268.2	3405.3
7.5°	2271.3	2291.4	2331.5	2405.1	2495.5	2518.9	2636.0	2809.9	2997.2	3191.2	3415.4
10°	2020.5	2040.5	2084.0	2130.8	2251.3	2251.3	2411.8	2652.7	2896.9	3124.3	3418.7
12.5°	1966.9	1977.0	1973.6	2010.4	2087.4	2104.1	2261.3	2525.6	2809.9	3100.9	3472.2
15°	2030.5	2037.2	2003.7	1983.7	2050.6	2067.3	2214.5	2448.6	2753.0	3114.3	3559.2
17.5°	2157.6	2134.2	2067.3	2037.2	2094.0	2104.1	2241.2	2445.3	2746.3	3151.1	3659.6
20°	2231.2	2258.0	2140.9	2084.0	2164.3	2177.7	2324.9	2498.8	2779.8	3214.7	3800.1
22.5°	2361.7	2375.0	2217.8	2181.0	2258.0	2258.0	2425.2	2605.8	2860.1	3318.4	3967.3
25°	2545.6	2528.9	2344.9	2308.1	2381.7	2411.8	2579.1	2776.4	2983.8	3415.4	4121.2
27.5°	2689.5	2699.5	2549.0	2452.0	2575.7	2595.8	2776.4	2960.4	3077.5	3495.6	4308.5
30°	2903.6	2883.5	2722.9	2612.5	2766.4	2769.8	2943.7	3134.4	3258.1	3639.5	4589.5
32.5°	3157.8	3117.7	2933.7	2776.4	2900.2	2930.3	3107.6	3385.3	3539.1	3910.4	5024.4
35°	3696.4	3599.3	3298.3	3054.1	3064.1	3077.5	3351.8	3749.9	3927.2	4255.0	5606.4
37.5°	4482.5	4442.3	4101.1	3636.1	3458.9	3418.7	3726.5	4231.6	4452.4	4709.9	6362.4
40°	5261.9	5205.0	4887.2	4536.0	4214.8	4134.6	4288.4	4870.5	5071.2	5342.2	7138.5
42.5°	6128.3	6027.9	5653.3	5368.9	5168.2	5081.2	5021.0	5673.3	5900.8	6084.8	7897.8
45°	7004.7	6840.8	6298.9	6081.4	5974.4	5927.6	5920.9	6683.5	6820.7	6857.5	8740.8
47.5°	7774.1	7596.8	7105.0	6860.8	6780.6	6767.2	7141.8	7847.6	7740.6	7643.6	9680.8
50°	8366.1	8252.4	7897.8	7810.9	7750.6	7727.2	8603.6	9045.2	8550.1	8379.5	10507.0
52.5°	9282.7	9028.5	8627.1	8657.2	8867.9	8871.3	10085.5	10182.5	9222.5	8884.6	11286.4
55°	10015.3	9848.0	9520.2	9476.7	10032.0	10092.2	11413.5	11045.6	9597.1	9366.3	11574.1
57.5°	10878.3	10801.4	10563.9	10570.6	11152.6	11279.7	12594.4	11774.8	9908.2	9677.4	11617.6
60°	12126.1	11905.3	11781.5	11838.4	12524.1	12647.9	13738.4	12300.0	10058.8	9881.5	11510.6
62.5°	13504.2	13246.7	13112.9	13403.9	14404.1	14424.2	14608.1	12765.0	9965.1	9935.0	10821.5
65°	15163.4	14909.2	14802.2	15387.5	16575.1	16501.5	15829.1	12962.3	9667.4	9396.4	9011.7
67.5°	16815.9	16662.0	16441.3	17374.5	18853.1	18853.1	17096.9	12888.7	8888.0	7543.2	5894.1
70°	17598.7	17705.7	18057.0	19522.1	21091.0	20930.4	18348.0	12042.4	6616.6	4050.9	2318.2
72°	17076.8	16966.4	17873.0	20224.6	22469.2	22204.9	18137.2	9573.7	3823.5	1776.3	806.2
72.5°	16180.3	16284.0	17531.8	20127.6	22211.6	22429.0	17622.1	8831.1	3144.4	1415.0	608.8
75°	9921.6	10098.9	13086.1	17090.2	19354.9	19110.7	13631.4	4208.2	1207.6	602.1	217.4
77.5°	3622.8	3769.9	6349.0	10754.6	13765.2	13611.3	7887.8	1495.3	655.6	448.2	110.4
80°	943.3	1020.3	2157.6	4960.8	8095.2	8105.2	3301.6	598.8	444.9	368.0	66.9
82.5°	187.3	207.4	662.3	1930.1	3783.3	3733.2	1043.7	321.1	334.5	301.1	46.8
85°	23.4	30.1	140.5	655.6	1224.3	1097.2	257.6	160.6	247.5	234.2	30.1
87.5°	3.3	3.3	33.5	150.5	257.6	250.9	53.5	50.2	110.4	143.8	16.7
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°	3385.3	3385.3	3385.3	3385.3	3385.3	3385.3	3385.3	3385.3	3385.3	3385.3	3385.3
2.5°	3422.1	3435.4	3482.3	3522.4	3569.2	3582.6	3562.6	3596.0	3549.2	3575.9	3582.6
5°	3428.7	3505.7	3592.7	3649.5	3636.1	3602.7	3575.9	3485.6	3422.1	3398.6	3448.8
7.5°	3475.6	3562.6	3656.2	3656.2	3582.6	3408.7	3241.4	3080.9	2947.0	2880.1	2937.0
10°	3535.8	3626.1	3723.1	3596.0	3321.7	3003.9	2766.4	2465.4	2261.3	2154.3	2164.3
12.5°	3616.1	3743.2	3776.6	3482.3	3027.3	2555.7	2124.2	1706.0	1512.0	1358.1	1361.5
15°	3719.8	3843.5	3743.2	3234.7	2652.7	1956.9	1438.4	1040.3	886.5	806.2	806.2
17.5°	3856.9	3950.6	3733.2	3007.3	2147.6	1338.0	883.1	702.5	669.0	655.6	655.6
20°	4017.5	4087.7	3636.1	2652.7	1595.6	859.7	649.0	628.9	632.2	625.5	625.5
22.5°	4198.1	4221.5	3525.8	2241.2	1080.5	635.6	605.5	608.8	612.2	605.5	608.8
25°	4388.8	4325.2	3365.2	1759.5	719.2	578.7	585.4	592.1	595.4	598.8	598.8
27.5°	4602.9	4475.8	3141.1	1287.9	562.0	545.3	565.3	585.4	588.7	588.7	585.4
30°	4917.3	4706.6	2923.6	873.1	495.1	508.5	541.9	565.3	582.1	582.1	578.7
32.5°	5315.4	4947.4	2619.2	595.4	458.3	465.0	491.7	538.6	575.4	578.7	568.7
35°	5867.3	5238.5	2301.4	475.0	431.5	434.9	451.6	488.4	551.9	572.0	568.7
37.5°	6449.4	5569.6	1906.7	428.2	411.4	408.1	418.1	448.2	505.1	555.3	558.6
40°	7068.2	5917.5	1491.9	404.8	394.7	388.0	391.4	404.8	448.2	511.8	525.2
42.5°	7650.3	6232.0	1120.6	381.3	378.0	371.3	371.3	374.7	398.1	441.6	448.2
45°	8279.2	6489.5	853.0	364.6	354.6	357.9	344.5	337.9	354.6	357.9	354.6
47.5°	8867.9	6747.1	682.4	344.5	334.5	334.5	317.8	304.4	304.4	274.3	271.0
50°	9419.9	6887.6	545.3	317.8	314.4	311.1	287.7	264.3	244.2	207.4	200.7
52.5°	9878.1	6880.9	421.5	284.3	294.4	284.3	247.5	214.1	184.0	150.5	143.8
55°	10015.3	6559.8	317.8	234.2	250.9	237.5	197.4	167.3	133.8	107.0	103.7
57.5°	9898.2	6071.4	240.8	180.6	194.0	180.6	150.5	123.8	93.7	73.6	66.9
60°	9506.8	5499.4	187.3	140.5	147.2	137.1	113.7	93.7	66.9	46.8	40.1
62.5°	8764.2	4783.5	143.8	110.4	107.0	107.0	87.0	70.2	46.8	26.8	23.4
65°	7192.0	3729.8	110.4	76.9	76.9	76.9	66.9	50.2	30.1	13.4	6.7
67.5°	4515.9	2171.0	90.3	60.2	56.9	56.9	46.8	33.5	16.7	3.3	0.0
70°	1699.3	796.1	70.2	46.8	43.5	43.5	33.5	20.1	10.0	0.0	0.0
72°	585.4	304.4	56.9	33.5	33.5	30.1	23.4	16.7	6.7	0.0	0.0
72.5°	481.7	244.2	53.5	33.5	30.1	30.1	23.4	16.7	6.7	0.0	0.0
75°	173.9	100.4	36.8	23.4	20.1	20.1	16.7	10.0	3.3	0.0	0.0
77.5°	87.0	63.6	30.1	20.1	16.7	10.0	10.0	6.7	3.3	0.0	0.0
80°	53.5	40.1	16.7	13.4	10.0	6.7	3.3	3.3	0.0	0.0	0.0
82.5°	36.8	23.4	10.0	10.0	6.7	3.3	0.0	0.0	0.0	0.0	0.0
85°	23.4	10.0	6.7	6.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.0	6.7	3.3	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)