

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: P483290

Luminaire Tested: **IFLD-L-SA7A-750-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483290
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-750-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

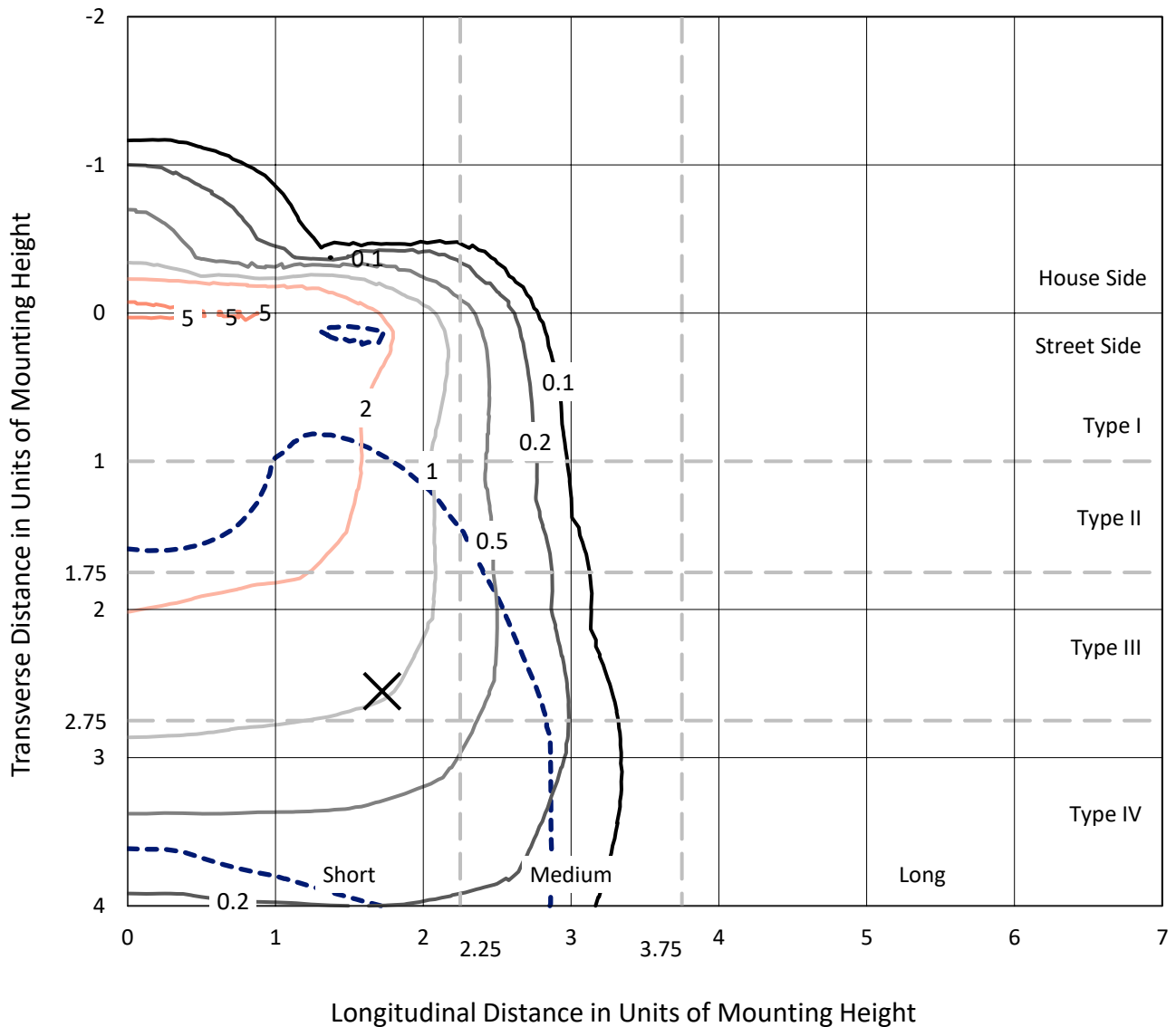
Lumens per Lamp: N/A
Luminaire Lumens: 23151.3 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
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

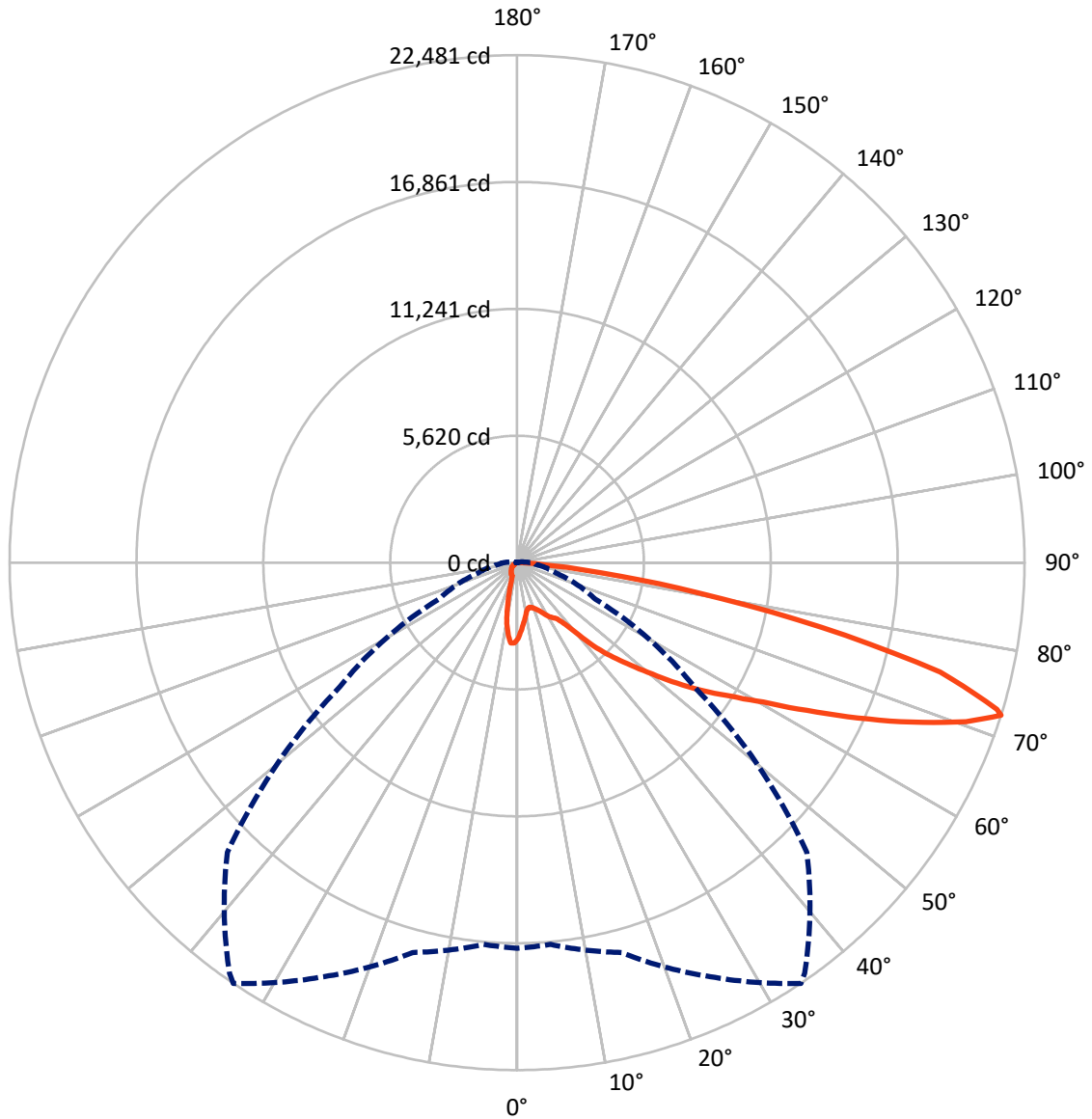
× Max cd
 - - - 1/2 Max cd



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	2370.1	0.0	2370.1
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	20781.2	0.0	20781.2
	% Fixture	89.8	0.0	89.8
Total	Lumens	23151.3	0.0	23151.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.0	1.3
10°-20°	665.7	2.9
20°-30°	1004.8	4.3
30°-40°	1630.5	7.0
40°-50°	3066.1	13.2
50°-60°	5013.2	21.7
60°-70°	6664.3	28.8
70°-80°	4463.0	19.3
80°-90°	349.7	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°	23151.3	100.0
0°-180°	23151.3	100.0

Coefficient of Utilization



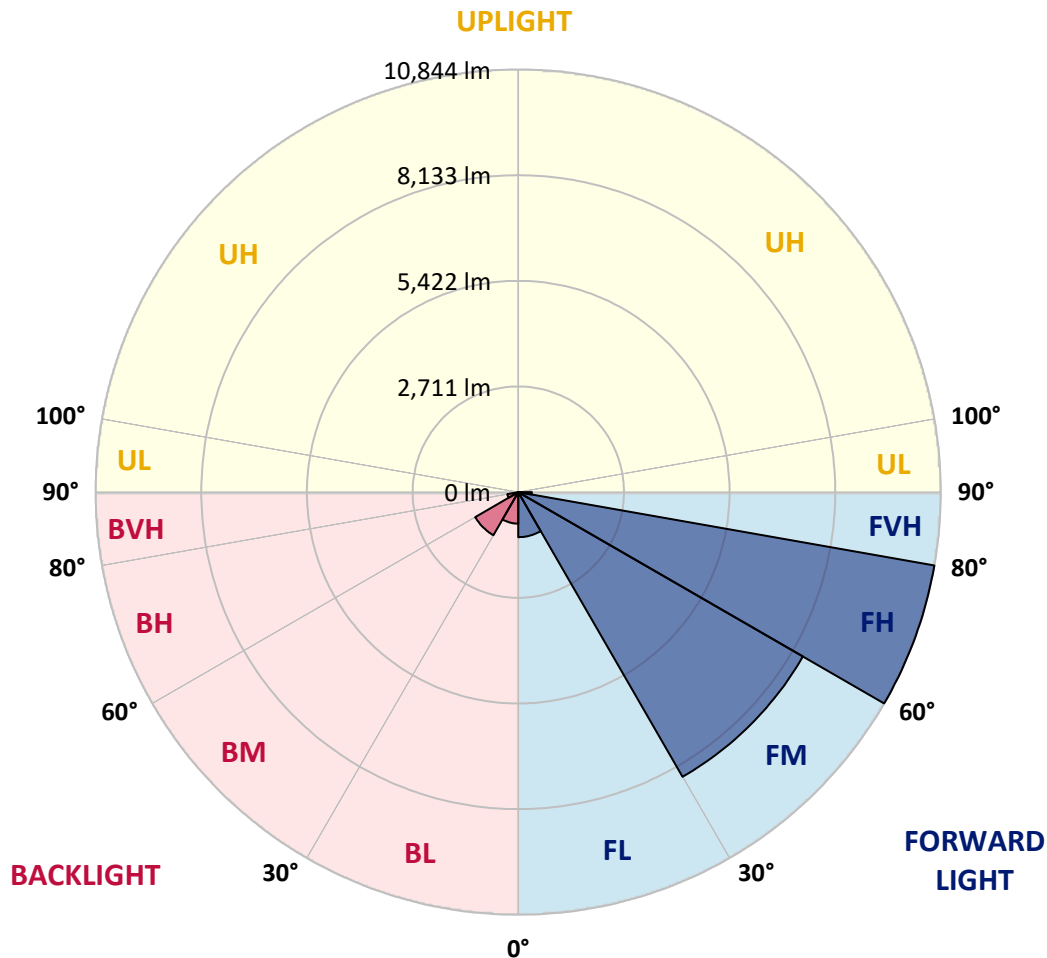
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1155.8	5.0			
FM (30°-60°)	8434.0	36.4			
FH (60°-80°)	10843.9	46.8			G4/12000
FVH (80°-90°)	347.5	1.5			G3/500
BL (0°-30°)	808.7	3.5	B2/1000		
BM (30°-60°)	1275.8	5.5	B2/2500		
BH (60°-80°)	283.4	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°	3387.1	3387.1	3387.1	3387.1	3387.1	3387.1	3387.1	3387.1	3387.1	3387.1	3387.1
2.5°	2995.5	2988.8	3008.9	3042.3	3075.8	3062.4	3126.0	3192.9	3239.8	3303.4	3380.4
5°	2617.3	2634.0	2654.1	2721.0	2764.5	2774.6	2891.7	2978.7	3122.7	3269.9	3407.1
7.5°	2272.5	2292.6	2332.8	2406.4	2496.8	2520.2	2637.4	2811.4	2998.8	3192.9	3417.2
10°	2021.5	2041.6	2085.1	2132.0	2252.5	2252.5	2413.1	2654.1	2898.4	3126.0	3420.5
12.5°	1968.0	1978.0	1974.7	2011.5	2088.5	2105.2	2262.5	2526.9	2811.4	3102.6	3474.1
15°	2031.6	2038.3	2004.8	1984.7	2051.6	2068.4	2215.6	2449.9	2754.5	3116.0	3561.1
17.5°	2158.7	2135.3	2068.4	2038.3	2095.2	2105.2	2242.4	2446.6	2747.8	3152.8	3661.5
20°	2232.4	2259.2	2142.0	2085.1	2165.4	2178.8	2326.1	2500.1	2781.3	3216.4	3802.1
22.5°	2362.9	2376.3	2219.0	2182.2	2259.2	2259.2	2426.5	2607.2	2861.6	3320.1	3969.4
25°	2547.0	2530.3	2346.2	2309.4	2383.0	2413.1	2580.5	2777.9	2985.4	3417.2	4123.4
27.5°	2690.9	2700.9	2550.3	2453.3	2577.1	2597.2	2777.9	2962.0	3079.1	3497.5	4310.8
30°	2905.1	2885.0	2724.4	2613.9	2767.9	2771.2	2945.3	3136.0	3259.9	3641.4	4591.9
32.5°	3159.5	3119.3	2935.2	2777.9	2901.8	2931.9	3109.3	3387.1	3541.0	3912.5	5027.0
35°	3698.3	3601.3	3300.0	3055.7	3065.8	3079.1	3353.6	3751.9	3929.3	4257.2	5609.4
37.5°	4484.8	4444.7	4103.3	3638.1	3460.7	3420.5	3728.4	4233.8	4454.7	4712.4	6365.8
40°	5264.7	5207.8	4889.8	4538.4	4217.1	4136.8	4290.7	4873.1	5073.9	5345.0	7142.3
42.5°	6131.5	6031.1	5656.2	5371.8	5170.9	5083.9	5023.7	5676.3	5903.9	6088.0	7902.0
45°	7008.4	6844.4	6302.2	6084.7	5977.6	5930.7	5924.0	6687.1	6824.3	6861.1	8745.4
47.5°	7778.2	7600.8	7108.8	6864.5	6784.2	6770.8	7145.6	7851.8	7744.7	7647.7	9685.9
50°	8370.6	8256.8	7902.0	7815.0	7754.8	7731.3	8608.2	9050.0	8554.7	8384.0	10512.6
52.5°	9287.6	9033.3	8631.6	8661.8	8872.6	8876.0	10090.9	10187.9	9227.4	8889.3	11292.4
55°	10020.6	9853.3	9525.3	9481.7	10037.3	10097.6	11419.6	11051.4	9602.2	9371.3	11580.3
57.5°	10884.1	10807.1	10569.5	10576.2	11158.5	11285.7	12601.1	11781.1	9913.5	9682.6	11623.8
60°	12132.5	11911.6	11787.8	11844.7	12530.8	12654.6	13745.7	12306.5	10064.1	9886.7	11516.7
62.5°	13511.4	13253.7	13119.8	13411.0	14411.7	14431.8	14615.9	12771.7	9970.4	9940.3	10827.2
65°	15171.5	14917.1	14810.0	15395.7	16583.9	16510.2	15837.5	12969.2	9672.5	9401.4	9016.5
67.5°	16824.8	16670.9	16450.0	17383.8	18863.1	18863.1	17106.0	12895.6	8892.7	7547.2	5897.2
70°	17608.0	17715.1	18066.5	19532.5	21102.2	20941.5	18357.7	12048.8	6620.2	4053.1	2319.4
72°	17085.9	16975.4	17882.4	20235.3	22481.1	22216.7	18146.9	9578.8	3825.5	1777.2	806.6
72.5°	16188.9	16292.7	17541.1	20138.3	22223.4	22440.9	17631.4	8835.8	3146.1	1415.7	609.1
75°	9926.9	10104.3	13093.0	17099.3	19365.1	19120.8	13638.6	4210.4	1208.2	602.4	217.5
77.5°	3624.7	3771.9	6352.4	10760.3	13772.5	13618.5	7892.0	1496.1	656.0	448.5	110.4
80°	943.8	1020.8	2158.7	4963.4	8099.5	8109.5	3303.4	599.1	445.1	368.2	66.9
82.5°	187.4	207.5	662.7	1931.2	3785.3	3735.1	1044.2	321.3	334.7	301.2	46.9
85°	23.4	30.1	140.6	656.0	1225.0	1097.8	257.7	160.7	247.7	234.3	30.1
87.5°	3.3	3.3	33.5	150.6	257.7	251.0	53.6	50.2	110.4	143.9	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°	3387.1	3387.1	3387.1	3387.1	3387.1	3387.1	3387.1	3387.1	3387.1	3387.1	3387.1
2.5°	3423.9	3437.3	3484.1	3524.3	3571.1	3584.5	3564.4	3597.9	3551.1	3577.8	3584.5
5°	3430.6	3507.5	3594.6	3651.5	3638.1	3604.6	3577.8	3487.5	3423.9	3400.4	3450.6
7.5°	3477.4	3564.4	3658.2	3658.2	3584.5	3410.5	3243.1	3082.5	2948.6	2881.7	2938.6
10°	3537.7	3628.0	3725.1	3597.9	3323.5	3005.5	2767.9	2466.7	2262.5	2155.4	2165.4
12.5°	3618.0	3745.2	3778.6	3484.1	3028.9	2557.0	2125.3	1706.9	1512.8	1358.8	1362.2
15°	3721.7	3845.6	3745.2	3236.4	2654.1	1957.9	1439.2	1040.9	886.9	806.6	806.6
17.5°	3859.0	3952.7	3735.1	3008.9	2148.7	1338.8	883.6	702.8	669.4	656.0	656.0
20°	4019.6	4089.9	3638.1	2654.1	1596.5	860.2	649.3	629.2	632.6	625.9	625.9
22.5°	4200.4	4223.8	3527.6	2242.4	1081.0	635.9	605.8	609.1	612.5	605.8	609.1
25°	4391.1	4327.5	3367.0	1760.5	719.6	579.0	585.7	592.4	595.7	599.1	599.1
27.5°	4605.3	4478.1	3142.7	1288.6	562.3	545.5	565.6	585.7	589.1	589.1	585.7
30°	4919.9	4709.1	2925.2	873.5	495.3	508.7	542.2	565.6	582.4	582.4	579.0
32.5°	5318.2	4950.1	2620.6	595.7	458.5	465.2	492.0	538.8	575.7	579.0	569.0
35°	5870.5	5241.2	2302.7	475.3	431.7	435.1	451.8	488.6	552.2	572.3	569.0
37.5°	6452.8	5572.6	1907.7	428.4	411.7	408.3	418.4	448.5	505.4	555.6	558.9
40°	7072.0	5920.7	1492.7	405.0	394.9	388.2	391.6	405.0	448.5	512.1	525.5
42.5°	7654.3	6235.3	1121.2	381.5	378.2	371.5	371.5	374.9	398.3	441.8	448.5
45°	8283.6	6493.0	853.5	364.8	354.8	358.1	344.7	338.0	354.8	358.1	354.8
47.5°	8872.6	6750.7	682.8	344.7	334.7	334.7	318.0	304.6	304.6	274.4	271.1
50°	9424.9	6891.3	545.5	318.0	314.6	311.3	287.8	264.4	244.3	207.5	200.8
52.5°	9883.4	6884.6	421.7	284.5	294.5	284.5	247.7	214.2	184.1	150.6	143.9
55°	10020.6	6563.3	318.0	234.3	251.0	237.6	197.5	167.3	133.9	107.1	103.8
57.5°	9903.5	6074.6	241.0	180.7	194.1	180.7	150.6	123.8	93.7	73.6	66.9
60°	9511.9	5502.3	187.4	140.6	147.3	137.2	113.8	93.7	66.9	46.9	40.2
62.5°	8768.9	4786.1	143.9	110.4	107.1	107.1	87.0	70.3	46.9	26.8	23.4
65°	7195.8	3731.8	110.4	77.0	77.0	77.0	66.9	50.2	30.1	13.4	6.7
67.5°	4518.3	2172.1	90.4	60.2	56.9	56.9	46.9	33.5	16.7	3.3	0.0
70°	1700.2	796.6	70.3	46.9	43.5	43.5	33.5	20.1	10.0	0.0	0.0
72°	585.7	304.6	56.9	33.5	33.5	30.1	23.4	16.7	6.7	0.0	0.0
72.5°	482.0	244.3	53.6	33.5	30.1	30.1	23.4	16.7	6.7	0.0	0.0
75°	174.0	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°	53.6	40.2	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)