

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: P483370

Luminaire Tested: **IFLD-L-SA7C-827-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483370
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-827-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

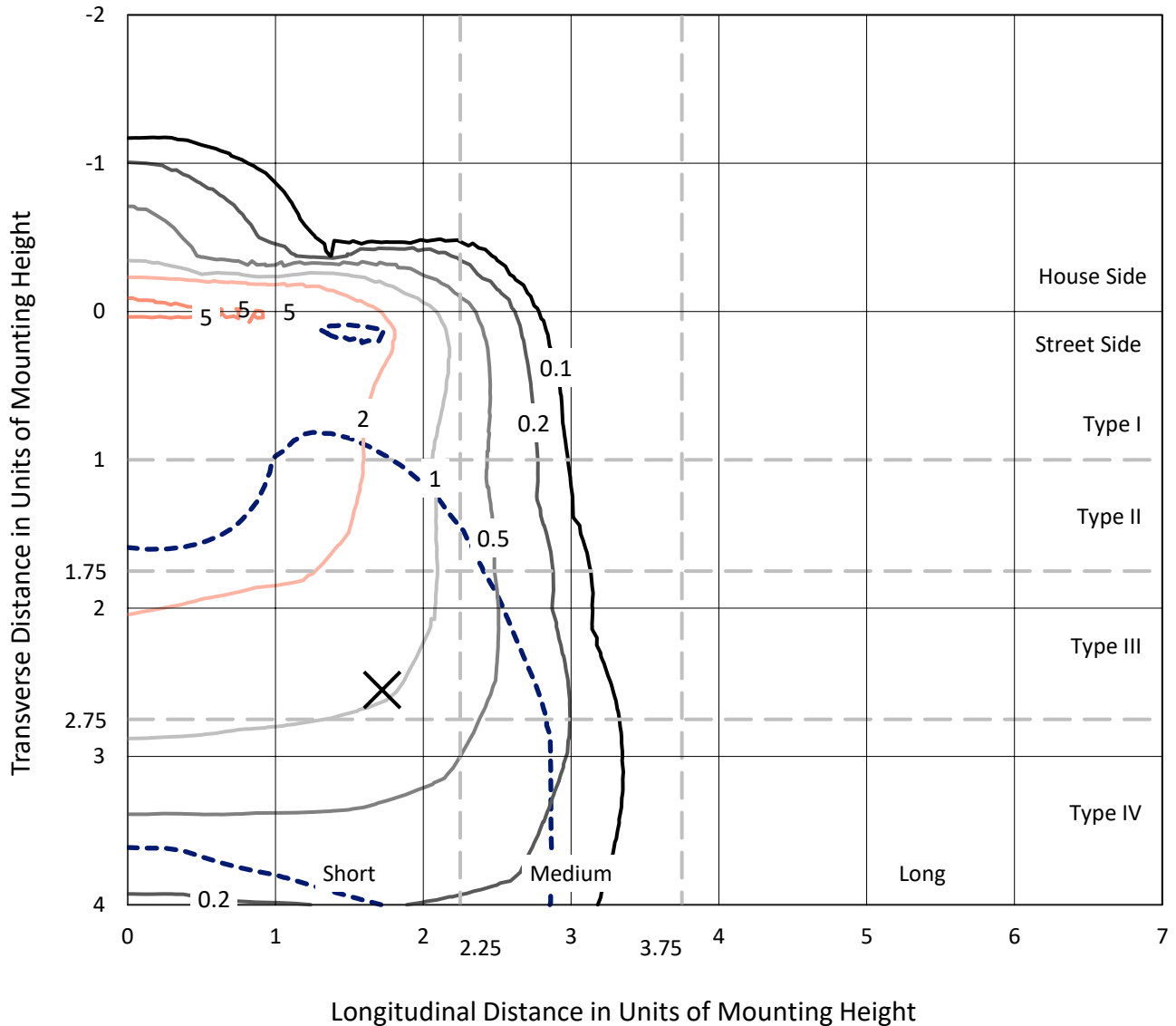
Lumens per Lamp: N/A
Luminaire Lumens: 23563.7 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

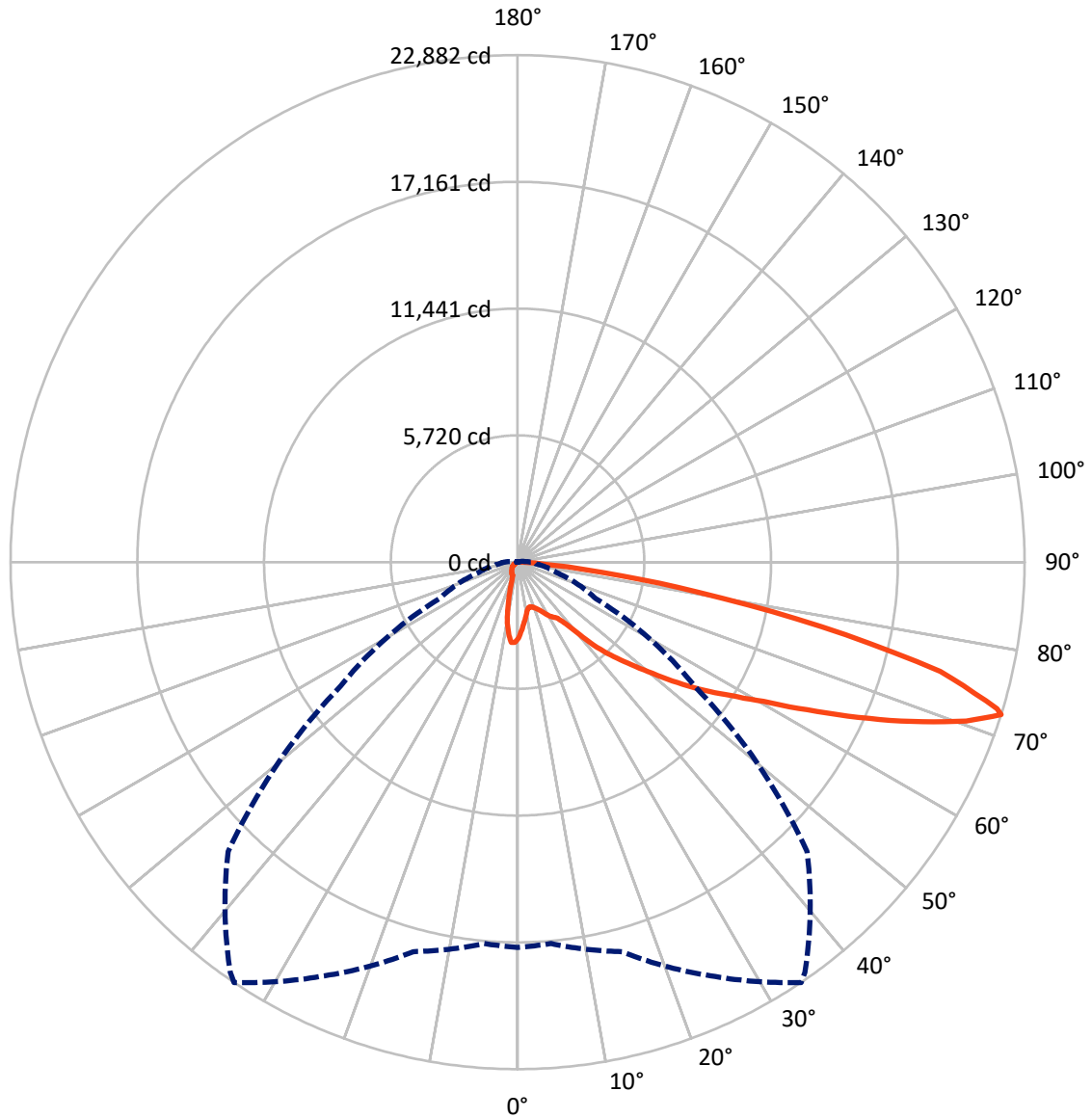
✕ Max cd
 - - - 1/2 Max cd



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	2412.4	0.0	2412.4
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	21151.3	0.0	21151.3
	% Fixture	89.8	0.0	89.8
Total	Lumens	23563.7	0.0	23563.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.3	1.3
10°-20°	677.5	2.9
20°-30°	1022.7	4.3
30°-40°	1659.6	7.0
40°-50°	3120.7	13.2
50°-60°	5102.5	21.7
60°-70°	6783.0	28.8
70°-80°	4542.5	19.3
80°-90°	356.0	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°	23563.7	100.0
0°-180°	23563.7	100.0

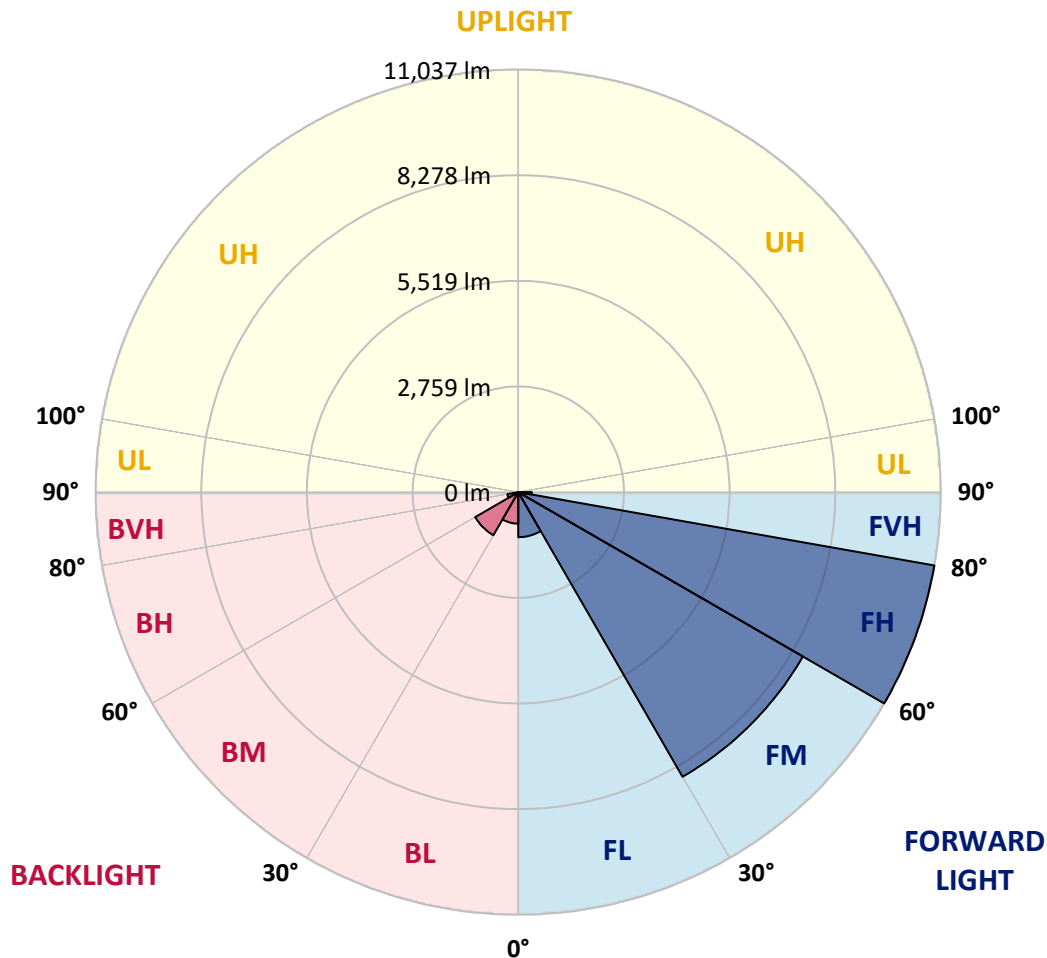


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1176.3	5.0			
FM (30°-60°)	8584.2	36.4			
FH (60°-80°)	11037.0	46.8			G4/12000
FVH (80°-90°)	353.7	1.5			G3/500
BL (0°-30°)	823.1	3.5	B2/1000		
BM (30°-60°)	1298.6	5.5	B2/2500		
BH (60°-80°)	288.5	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°	3447.4	3447.4	3447.4	3447.4	3447.4	3447.4	3447.4	3447.4	3447.4	3447.4	3447.4
2.5°	3048.8	3042.0	3062.5	3096.5	3130.6	3117.0	3181.7	3249.8	3297.5	3362.2	3440.6
5°	2663.9	2680.9	2701.4	2769.5	2813.8	2824.0	2943.2	3031.8	3178.3	3328.2	3467.8
7.5°	2313.0	2333.5	2374.3	2449.3	2541.3	2565.1	2684.3	2861.5	3052.2	3249.8	3478.0
10°	2057.5	2078.0	2122.3	2169.9	2292.6	2292.6	2456.1	2701.4	2950.0	3181.7	3481.5
12.5°	2003.0	2013.2	2009.8	2047.3	2125.7	2142.7	2302.8	2571.9	2861.5	3157.8	3536.0
15°	2067.8	2074.6	2040.5	2020.1	2088.2	2105.2	2255.1	2493.6	2803.6	3171.5	3624.5
17.5°	2197.2	2173.4	2105.2	2074.6	2132.5	2142.7	2282.4	2490.2	2796.7	3208.9	3726.7
20°	2272.1	2299.4	2180.2	2122.3	2204.0	2217.6	2367.5	2544.7	2830.8	3273.7	3869.8
22.5°	2405.0	2418.6	2258.5	2221.0	2299.4	2299.4	2469.7	2653.7	2912.6	3379.3	4040.1
25°	2592.4	2575.3	2388.0	2350.5	2425.4	2456.1	2626.4	2827.4	3038.6	3478.0	4196.8
27.5°	2738.8	2749.1	2595.8	2497.0	2623.0	2643.5	2827.4	3014.8	3134.0	3559.8	4387.6
30°	2956.9	2936.4	2772.9	2660.5	2817.2	2820.6	2997.7	3191.9	3317.9	3706.3	4673.7
32.5°	3215.7	3174.9	2987.5	2827.4	2953.4	2984.1	3164.6	3447.4	3604.1	3982.2	5116.6
35°	3764.2	3665.4	3358.8	3110.1	3120.4	3134.0	3413.3	3818.7	3999.2	4333.1	5709.3
37.5°	4564.7	4523.8	4176.4	3702.9	3522.3	3481.5	3794.9	4309.2	4534.1	4796.4	6479.2
40°	5358.4	5300.5	4976.9	4619.2	4292.2	4210.4	4367.1	4959.9	5164.3	5440.2	7269.5
42.5°	6240.7	6138.5	5757.0	5467.4	5263.1	5174.5	5113.2	5777.4	6009.1	6196.4	8042.8
45°	7133.2	6966.3	6414.5	6193.0	6084.0	6036.3	6029.5	6806.2	6945.9	6983.3	8901.2
47.5°	7916.7	7736.2	7235.4	6986.8	6905.0	6891.4	7272.9	7991.7	7882.7	7783.9	9858.4
50°	8519.7	8403.9	8042.8	7954.2	7892.9	7869.0	8761.5	9211.2	8707.0	8533.3	10699.8
52.5°	9453.1	9194.2	8785.4	8816.0	9030.7	9034.1	10270.6	10369.4	9391.7	9047.7	11493.6
55°	10199.1	10028.8	9694.9	9650.6	10216.1	10277.4	11623.0	11248.3	9773.3	9538.2	11786.5
57.5°	11078.0	10999.6	10757.8	10764.6	11357.3	11486.8	12825.5	11990.9	10090.1	9855.0	11830.8
60°	12348.6	12123.8	11997.7	12055.6	12754.0	12880.0	13990.5	12525.7	10243.4	10062.8	11721.8
62.5°	13752.1	13489.8	13353.5	13649.9	14668.4	14688.9	14876.2	12999.2	10148.0	10117.3	11020.1
65°	15441.7	15182.8	15073.8	15669.9	16879.3	16804.3	16119.6	13200.2	9844.8	9568.9	9177.1
67.5°	17124.5	16967.8	16743.0	17693.4	19199.1	19199.1	17410.7	13125.3	9051.1	7681.7	6002.3
70°	17921.6	18030.7	18388.3	19880.4	21478.0	21314.5	18684.7	12263.4	6738.1	4125.3	2360.7
72°	17390.2	17277.8	18201.0	20595.8	22881.5	22612.4	18470.1	9749.4	3893.6	1808.9	821.0
72.5°	16477.3	16582.9	17853.5	20497.0	22619.2	22840.6	17945.5	8993.2	3202.1	1441.0	620.0
75°	10103.7	10284.3	13326.3	17403.9	19710.1	19461.4	13881.5	4285.4	1229.7	613.2	221.4
77.5°	3689.2	3839.1	6465.6	10951.9	14017.8	13861.1	8032.5	1522.7	667.7	456.5	112.4
80°	960.6	1039.0	2197.2	5051.9	8243.8	8254.0	3362.2	609.8	453.1	374.7	68.1
82.5°	190.8	211.2	674.5	1965.6	3852.8	3801.7	1062.8	327.0	340.7	306.6	47.7
85°	23.8	30.7	143.1	667.7	1246.8	1117.3	262.3	163.5	252.1	238.5	30.7
87.5°	3.4	3.4	34.1	153.3	262.3	255.5	54.5	51.1	112.4	146.5	17.0
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°	3447.4	3447.4	3447.4	3447.4	3447.4	3447.4	3447.4	3447.4	3447.4	3447.4	3447.4
2.5°	3484.9	3498.5	3546.2	3587.1	3634.7	3648.4	3627.9	3662.0	3614.3	3641.6	3648.4
5°	3491.7	3570.0	3658.6	3716.5	3702.9	3668.8	3641.6	3549.6	3484.9	3461.0	3512.1
7.5°	3539.4	3627.9	3723.3	3723.3	3648.4	3471.2	3300.9	3137.4	3001.1	2933.0	2990.9
10°	3600.7	3692.7	3791.4	3662.0	3382.7	3059.0	2817.2	2510.6	2302.8	2193.8	2204.0
12.5°	3682.4	3811.9	3845.9	3546.2	3082.9	2602.6	2163.1	1737.3	1539.7	1383.0	1386.4
15°	3788.0	3914.1	3811.9	3294.1	2701.4	1992.8	1464.8	1059.4	902.7	821.0	821.0
17.5°	3927.7	4023.1	3801.7	3062.5	2187.0	1362.6	899.3	715.4	681.3	667.7	667.7
20°	4091.2	4162.8	3702.9	2701.4	1624.9	875.5	660.9	640.4	643.8	637.0	637.0
22.5°	4275.2	4299.0	3590.5	2282.4	1100.3	647.2	616.6	620.0	623.4	616.6	620.0
25°	4469.3	4404.6	3426.9	1791.8	732.4	589.3	596.1	603.0	606.4	609.8	609.8
27.5°	4687.4	4557.9	3198.7	1311.5	572.3	555.3	575.7	596.1	599.5	599.5	596.1
30°	5007.6	4793.0	2977.3	889.1	504.2	517.8	551.9	575.7	592.7	592.7	589.3
32.5°	5412.9	5038.2	2667.3	606.4	466.7	473.5	500.8	548.4	585.9	589.3	579.1
35°	5975.0	5334.6	2343.7	483.7	439.4	442.8	459.9	497.4	562.1	582.5	579.1
37.5°	6567.8	5671.8	1941.7	436.0	419.0	415.6	425.8	456.5	514.4	565.5	568.9
40°	7198.0	6026.1	1519.3	412.2	402.0	395.2	398.6	412.2	456.5	521.2	534.8
42.5°	7790.7	6346.3	1141.2	388.3	384.9	378.1	378.1	381.5	405.4	449.7	456.5
45°	8431.1	6608.6	868.7	371.3	361.1	364.5	350.9	344.1	361.1	364.5	361.1
47.5°	9030.7	6870.9	694.9	350.9	340.7	340.7	323.6	310.0	310.0	279.3	275.9
50°	9592.7	7014.0	555.3	323.6	320.2	316.8	293.0	269.1	248.7	211.2	204.4
52.5°	10059.4	7007.2	429.2	289.6	299.8	289.6	252.1	218.0	187.4	153.3	146.5
55°	10199.1	6680.2	323.6	238.5	255.5	241.9	201.0	170.3	136.3	109.0	105.6
57.5°	10079.9	6182.8	245.3	184.0	197.6	184.0	153.3	126.0	95.4	74.9	68.1
60°	9681.3	5600.3	190.8	143.1	149.9	139.7	115.8	95.4	68.1	47.7	40.9
62.5°	8925.1	4871.3	146.5	112.4	109.0	109.0	88.6	71.5	47.7	27.3	23.8
65°	7324.0	3798.3	112.4	78.3	78.3	78.3	68.1	51.1	30.7	13.6	6.8
67.5°	4598.8	2210.8	92.0	61.3	57.9	57.9	47.7	34.1	17.0	3.4	0.0
70°	1730.5	810.7	71.5	47.7	44.3	44.3	34.1	20.4	10.2	0.0	0.0
72°	596.1	310.0	57.9	34.1	34.1	30.7	23.8	17.0	6.8	0.0	0.0
72.5°	490.5	248.7	54.5	34.1	30.7	30.7	23.8	17.0	6.8	0.0	0.0
75°	177.1	102.2	37.5	23.8	20.4	20.4	17.0	10.2	3.4	0.0	0.0
77.5°	88.6	64.7	30.7	20.4	17.0	10.2	10.2	6.8	3.4	0.0	0.0
80°	54.5	40.9	17.0	13.6	10.2	6.8	3.4	3.4	0.0	0.0	0.0
82.5°	37.5	23.8	10.2	10.2	6.8	3.4	0.0	0.0	0.0	0.0	0.0
85°	23.8	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)