

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: P483173

Luminaire Tested: **IFLD-L-SA7A-730-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483173
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-730-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

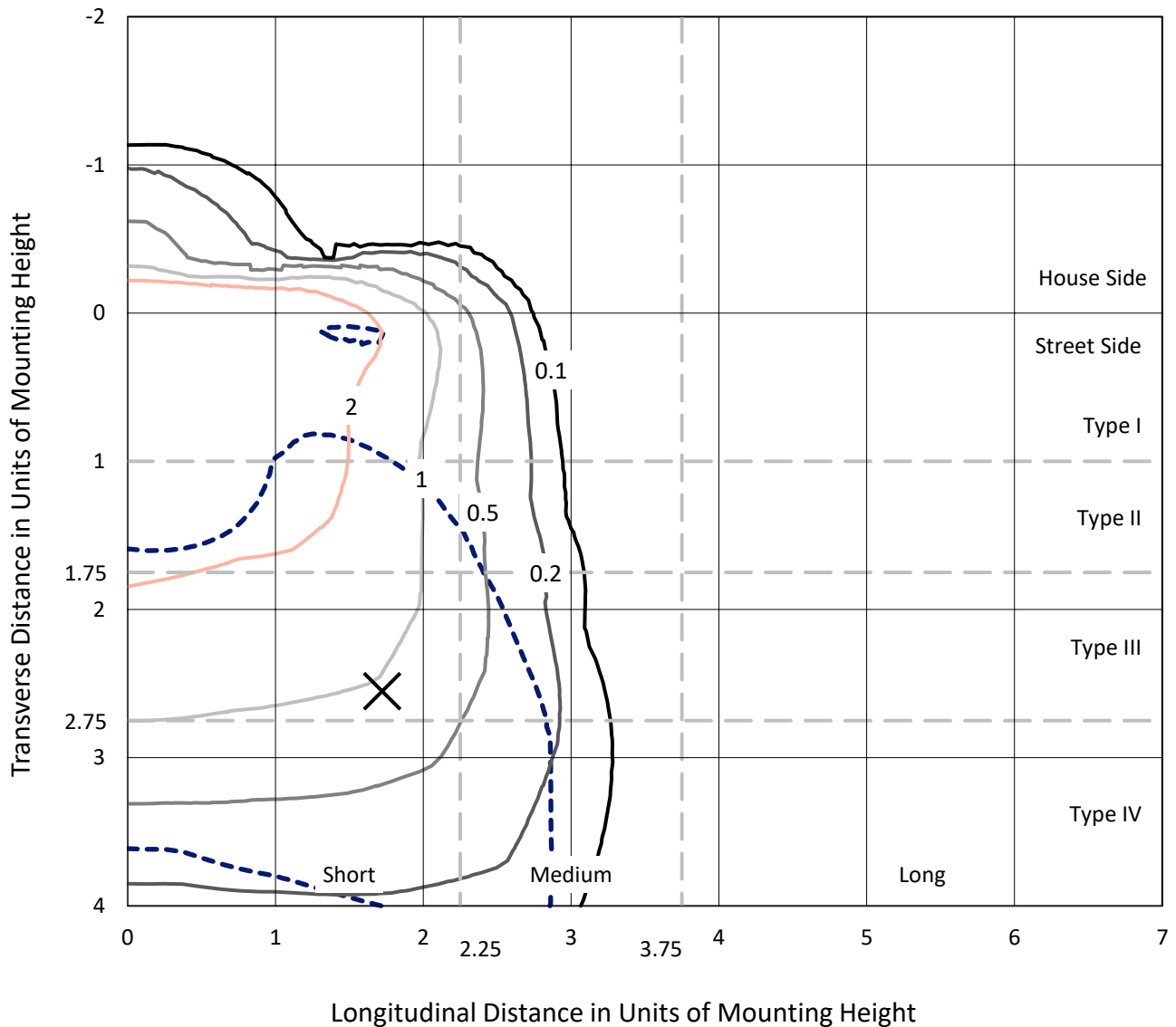
Lumens per Lamp: N/A
Luminaire Lumens: 20609.6 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

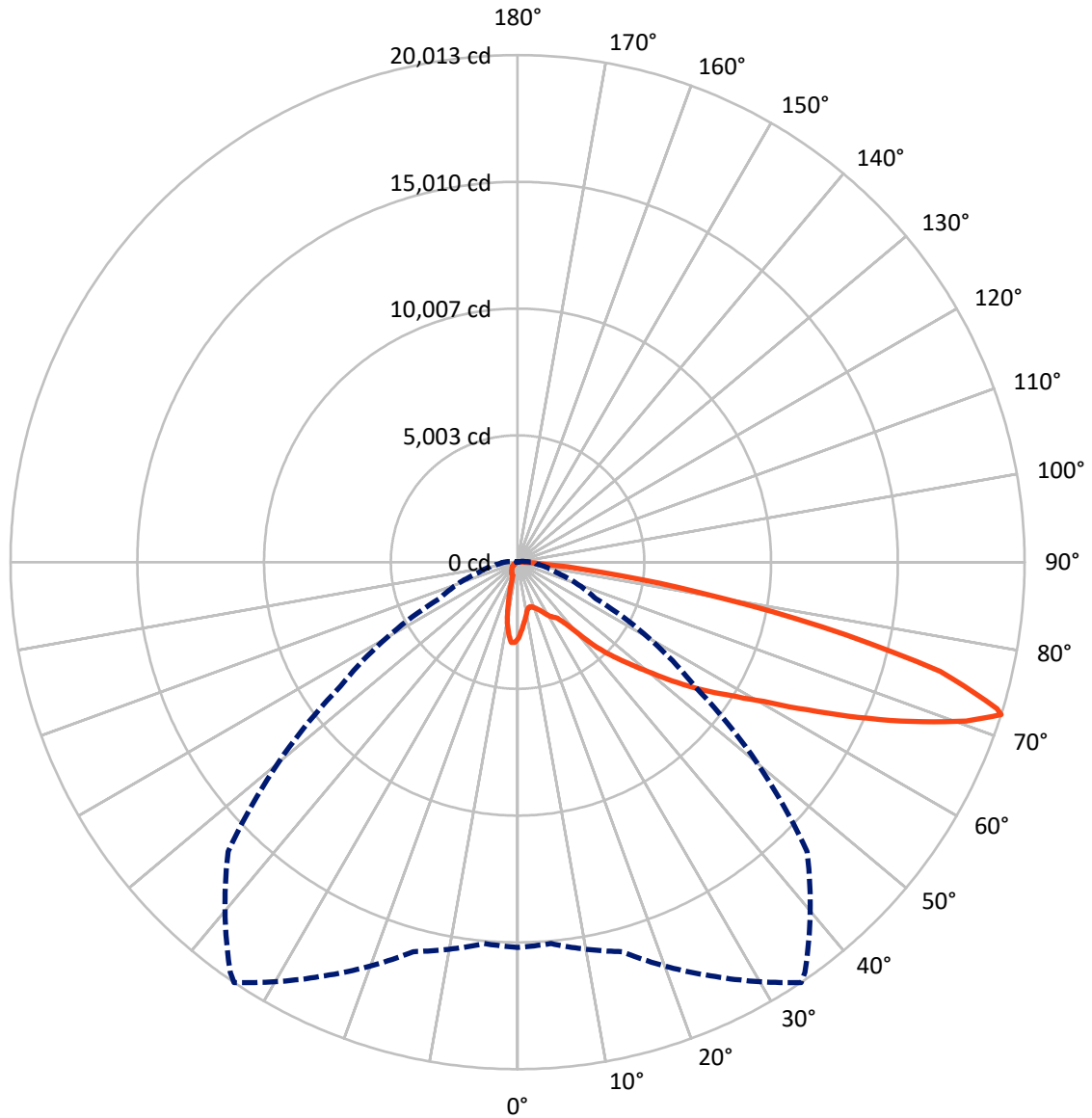
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	2109.9	0.0	2109.9
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	18499.7	0.0	18499.7
	% Fixture	89.8	0.0	89.8
Total	Lumens	20609.6	0.0	20609.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.7	1.3
10°-20°	592.6	2.9
20°-30°	894.4	4.3
30°-40°	1451.5	7.0
40°-50°	2729.5	13.2
50°-60°	4462.8	21.7
60°-70°	5932.6	28.8
70°-80°	3973.0	19.3
80°-90°	311.4	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°	20609.6	100.0
0°-180°	20609.6	100.0



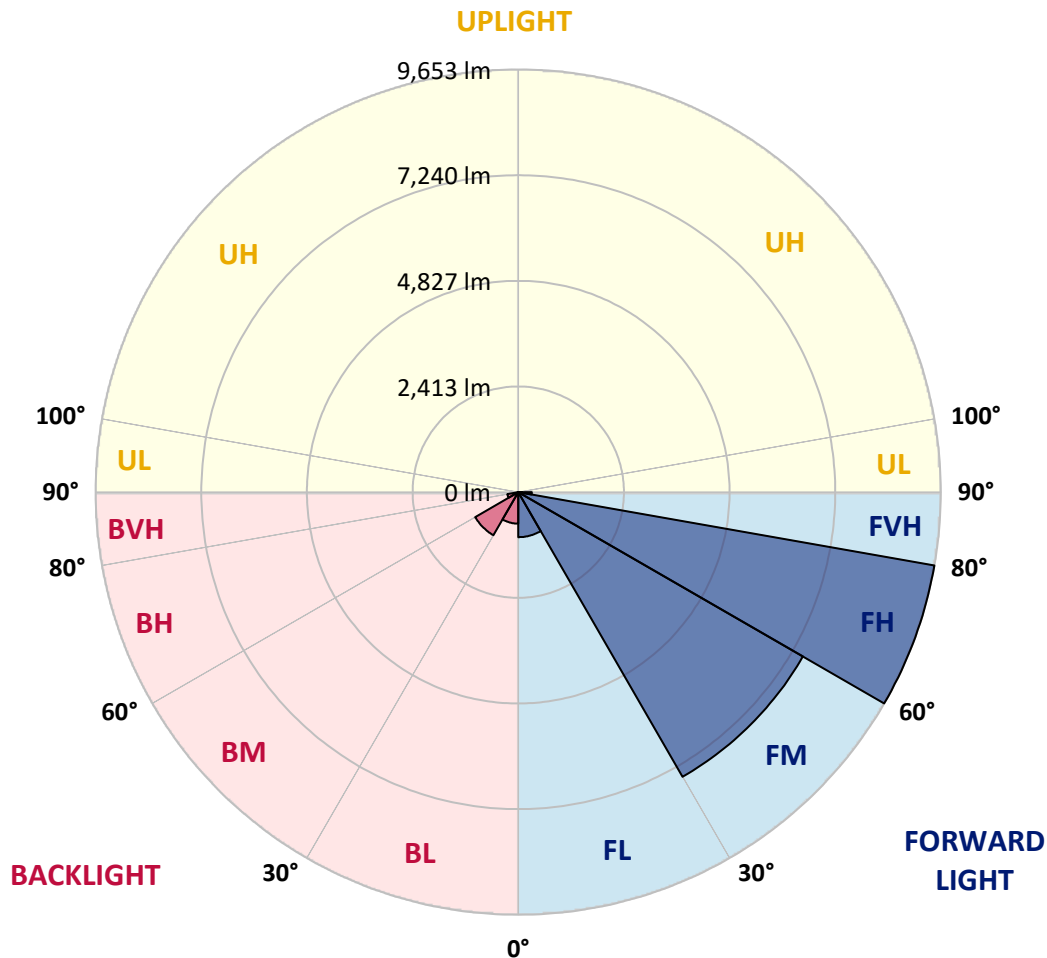
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1028.9	5.0			
FM (30°-60°)	7508.0	36.4			
FH (60°-80°)	9653.4	46.8			G4/12000
FVH (80°-90°)	309.4	1.5			G3/500
BL (0°-30°)	719.9	3.5	B2/1000		
BM (30°-60°)	1135.8	5.5	B2/2500		
BH (60°-80°)	252.3	1.2	B1/500		G1/500
BVH (80°-90°)	2.0	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°	3015.2	3015.2	3015.2	3015.2	3015.2	3015.2	3015.2	3015.2	3015.2	3015.2	3015.2
2.5°	2666.6	2660.7	2678.5	2708.3	2738.1	2726.2	2782.8	2842.4	2884.1	2940.7	3009.2
5°	2329.9	2344.8	2362.7	2422.3	2461.0	2470.0	2574.2	2651.7	2779.8	2910.9	3033.1
7.5°	2023.0	2040.9	2076.7	2142.2	2222.7	2243.5	2347.8	2502.7	2669.6	2842.4	3042.0
10°	1799.6	1817.5	1856.2	1897.9	2005.2	2005.2	2148.2	2362.7	2580.2	2782.8	3045.0
12.5°	1751.9	1760.9	1757.9	1790.7	1859.2	1874.1	2014.1	2249.5	2502.7	2762.0	3092.7
15°	1808.5	1814.5	1784.7	1766.8	1826.4	1841.3	1972.4	2181.0	2452.1	2773.9	3170.1
17.5°	1921.7	1900.9	1841.3	1814.5	1865.1	1874.1	1996.2	2178.0	2446.1	2806.6	3259.5
20°	1987.3	2011.1	1906.8	1856.2	1927.7	1939.6	2070.7	2225.7	2475.9	2863.3	3384.7
22.5°	2103.5	2115.4	1975.4	1942.6	2011.1	2011.1	2160.1	2321.0	2547.4	2955.6	3533.6
25°	2267.4	2252.5	2088.6	2055.8	2121.4	2148.2	2297.2	2472.9	2657.7	3042.0	3670.7
27.5°	2395.5	2404.4	2270.3	2183.9	2294.2	2312.1	2472.9	2636.8	2741.1	3113.5	3837.5
30°	2586.2	2568.3	2425.3	2327.0	2464.0	2467.0	2621.9	2791.7	2902.0	3241.6	4087.8
32.5°	2812.6	2776.8	2613.0	2472.9	2583.2	2610.0	2767.9	3015.2	3152.3	3483.0	4475.1
35°	3292.3	3205.9	2937.7	2720.2	2729.2	2741.1	2985.4	3340.0	3497.9	3789.9	4993.6
37.5°	3992.5	3956.7	3652.8	3238.7	3080.8	3045.0	3319.1	3769.0	3965.6	4195.1	5666.9
40°	4686.7	4636.0	4353.0	4040.1	3754.1	3682.6	3819.7	4338.1	4516.8	4758.2	6358.1
42.5°	5458.4	5369.0	5035.3	4782.0	4603.3	4525.8	4472.2	5053.1	5255.8	5419.6	7034.5
45°	6239.0	6093.0	5610.3	5416.6	5321.3	5279.6	5273.6	5952.9	6075.1	6107.9	7785.3
47.5°	6924.2	6766.3	6328.4	6110.9	6039.3	6027.4	6361.1	6989.8	6894.5	6808.0	8622.5
50°	7451.6	7350.3	7034.5	6957.0	6903.4	6882.5	7663.1	8056.4	7615.5	7463.5	9358.5
52.5°	8268.0	8041.5	7684.0	7710.8	7898.5	7901.5	8983.0	9069.5	8214.3	7913.4	10052.7
55°	8920.5	8771.5	8479.5	8440.8	8935.4	8989.0	10165.9	9838.1	8548.0	8342.5	10308.9
57.5°	9689.2	9620.6	9409.1	9415.1	9933.5	10046.7	11217.6	10487.7	8825.1	8619.6	10347.6
60°	10800.5	10603.9	10493.6	10544.3	11155.1	11265.3	12236.6	10955.4	8959.2	8801.3	10252.3
62.5°	12028.0	11798.6	11679.4	11938.7	12829.5	12847.4	13011.3	11369.6	8875.8	8849.0	9638.5
65°	13505.9	13279.4	13184.1	13705.5	14763.2	14697.6	14098.8	11545.4	8610.6	8369.3	8026.6
67.5°	14977.7	14840.6	14644.0	15475.3	16792.2	16792.2	15228.0	11479.8	7916.4	6718.7	5249.8
70°	15674.9	15770.2	16083.1	17388.1	18785.4	18642.4	16342.3	10726.0	5893.4	3608.1	2064.8
72°	15210.1	15111.8	15919.2	18013.8	20013.0	19777.6	16154.6	8527.2	3405.5	1582.1	718.0
72.5°	14411.6	14504.0	15615.3	17927.4	19783.6	19977.2	15695.8	7865.8	2800.7	1260.3	542.3
75°	8837.1	8995.0	11655.6	15222.0	17239.1	17021.6	12141.3	3748.1	1075.6	536.3	193.7
77.5°	3226.7	3357.8	5655.0	9578.9	12260.4	12123.4	7025.5	1331.8	584.0	399.2	98.3
80°	840.2	908.7	1921.7	4418.5	7210.3	7219.2	2940.7	533.3	396.3	327.7	59.6
82.5°	166.8	184.7	589.9	1719.1	3369.8	3325.1	929.6	286.0	297.9	268.2	41.7
85°	20.9	26.8	125.1	584.0	1090.5	977.3	229.4	143.0	220.5	208.6	26.8
87.5°	3.0	3.0	29.8	134.1	229.4	223.5	47.7	44.7	98.3	128.1	14.9
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°	3015.2	3015.2	3015.2	3015.2	3015.2	3015.2	3015.2	3015.2	3015.2	3015.2	3015.2
2.5°	3048.0	3059.9	3101.6	3137.4	3179.1	3191.0	3173.1	3202.9	3161.2	3185.0	3191.0
5°	3053.9	3122.5	3199.9	3250.6	3238.7	3208.9	3185.0	3104.6	3048.0	3027.1	3071.8
7.5°	3095.7	3173.1	3256.5	3256.5	3191.0	3036.1	2887.1	2744.1	2624.9	2565.3	2616.0
10°	3149.3	3229.7	3316.1	3202.9	2958.6	2675.5	2464.0	2195.9	2014.1	1918.8	1927.7
12.5°	3220.8	3334.0	3363.8	3101.6	2696.4	2276.3	1892.0	1519.5	1346.7	1209.7	1212.6
15°	3313.2	3423.4	3334.0	2881.1	2362.7	1743.0	1281.2	926.6	789.6	718.0	718.0
17.5°	3435.3	3518.7	3325.1	2678.5	1912.8	1191.8	786.6	625.7	595.9	584.0	584.0
20°	3578.3	3640.9	3238.7	2362.7	1421.2	765.7	578.0	560.1	563.1	557.2	557.2
22.5°	3739.2	3760.1	3140.3	1996.2	962.4	566.1	539.3	542.3	545.2	539.3	542.3
25°	3909.0	3852.4	2997.3	1567.2	640.6	515.4	521.4	527.4	530.3	533.3	533.3
27.5°	4099.7	3986.5	2797.7	1147.1	500.5	485.7	503.5	521.4	524.4	524.4	521.4
30°	4379.8	4192.1	2604.0	777.6	441.0	452.9	482.7	503.5	518.4	518.4	515.4
32.5°	4734.3	4406.6	2332.9	530.3	408.2	414.1	438.0	479.7	512.5	515.4	506.5
35°	5226.0	4665.8	2049.9	423.1	384.3	387.3	402.2	435.0	491.6	509.5	506.5
37.5°	5744.4	4960.8	1698.3	381.4	366.5	363.5	372.4	399.2	449.9	494.6	497.6
40°	6295.6	5270.6	1328.8	360.5	351.6	345.6	348.6	360.5	399.2	455.9	467.8
42.5°	6814.0	5550.7	998.1	339.7	336.7	330.7	330.7	333.7	354.6	393.3	399.2
45°	7374.1	5780.1	759.8	324.8	315.8	318.8	306.9	300.9	315.8	318.8	315.8
47.5°	7898.5	6009.6	607.8	306.9	297.9	297.9	283.0	271.1	271.1	244.3	241.3
50°	8390.1	6134.7	485.7	283.0	280.1	277.1	256.2	235.4	217.5	184.7	178.8
52.5°	8798.3	6128.7	375.4	253.3	262.2	253.3	220.5	190.7	163.9	134.1	128.1
55°	8920.5	5842.7	283.0	208.6	223.5	211.5	175.8	149.0	119.2	95.3	92.4
57.5°	8816.2	5407.7	214.5	160.9	172.8	160.9	134.1	110.2	83.4	65.5	59.6
60°	8467.6	4898.2	166.8	125.1	131.1	122.2	101.3	83.4	59.6	41.7	35.8
62.5°	7806.2	4260.6	128.1	98.3	95.3	95.3	77.5	62.6	41.7	23.8	20.9
65°	6405.8	3322.1	98.3	68.5	68.5	68.5	59.6	44.7	26.8	11.9	6.0
67.5°	4022.3	1933.7	80.4	53.6	50.7	50.7	41.7	29.8	14.9	3.0	0.0
70°	1513.6	709.1	62.6	41.7	38.7	38.7	29.8	17.9	8.9	0.0	0.0
72°	521.4	271.1	50.7	29.8	29.8	26.8	20.9	14.9	6.0	0.0	0.0
72.5°	429.0	217.5	47.7	29.8	26.8	26.8	20.9	14.9	6.0	0.0	0.0
75°	154.9	89.4	32.8	20.9	17.9	17.9	14.9	8.9	3.0	0.0	0.0
77.5°	77.5	56.6	26.8	17.9	14.9	8.9	8.9	6.0	3.0	0.0	0.0
80°	47.7	35.8	14.9	11.9	8.9	6.0	3.0	3.0	0.0	0.0	0.0
82.5°	32.8	20.9	8.9	8.9	6.0	3.0	0.0	0.0	0.0	0.0	0.0
85°	20.9	8.9	6.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	6.0	3.0	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)