

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: P483100

Luminaire Tested: **IFLD-L-SA8A-722-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483100
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-722-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

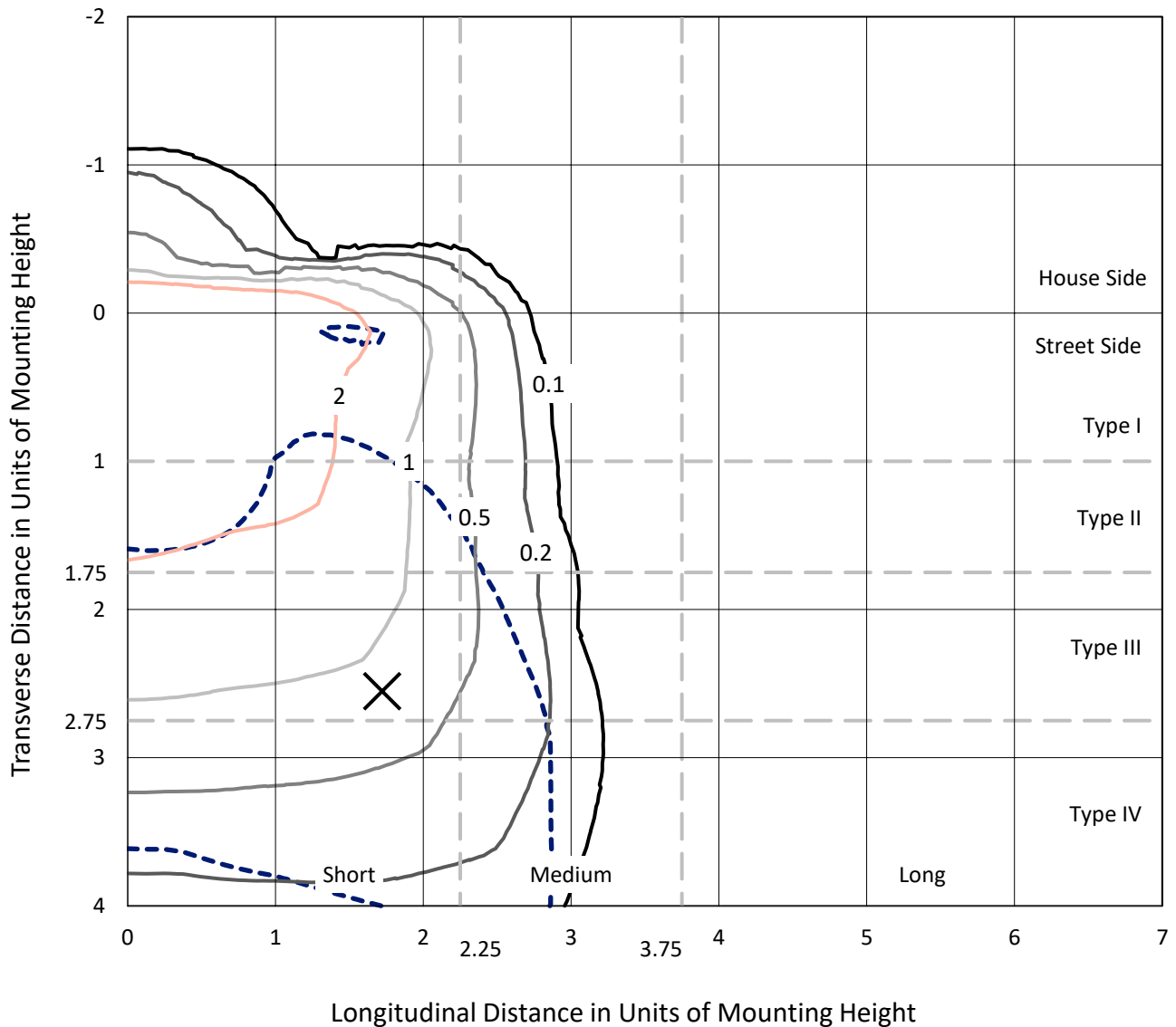
Lumens per Lamp: N/A
Luminaire Lumens: 18245.8 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8
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

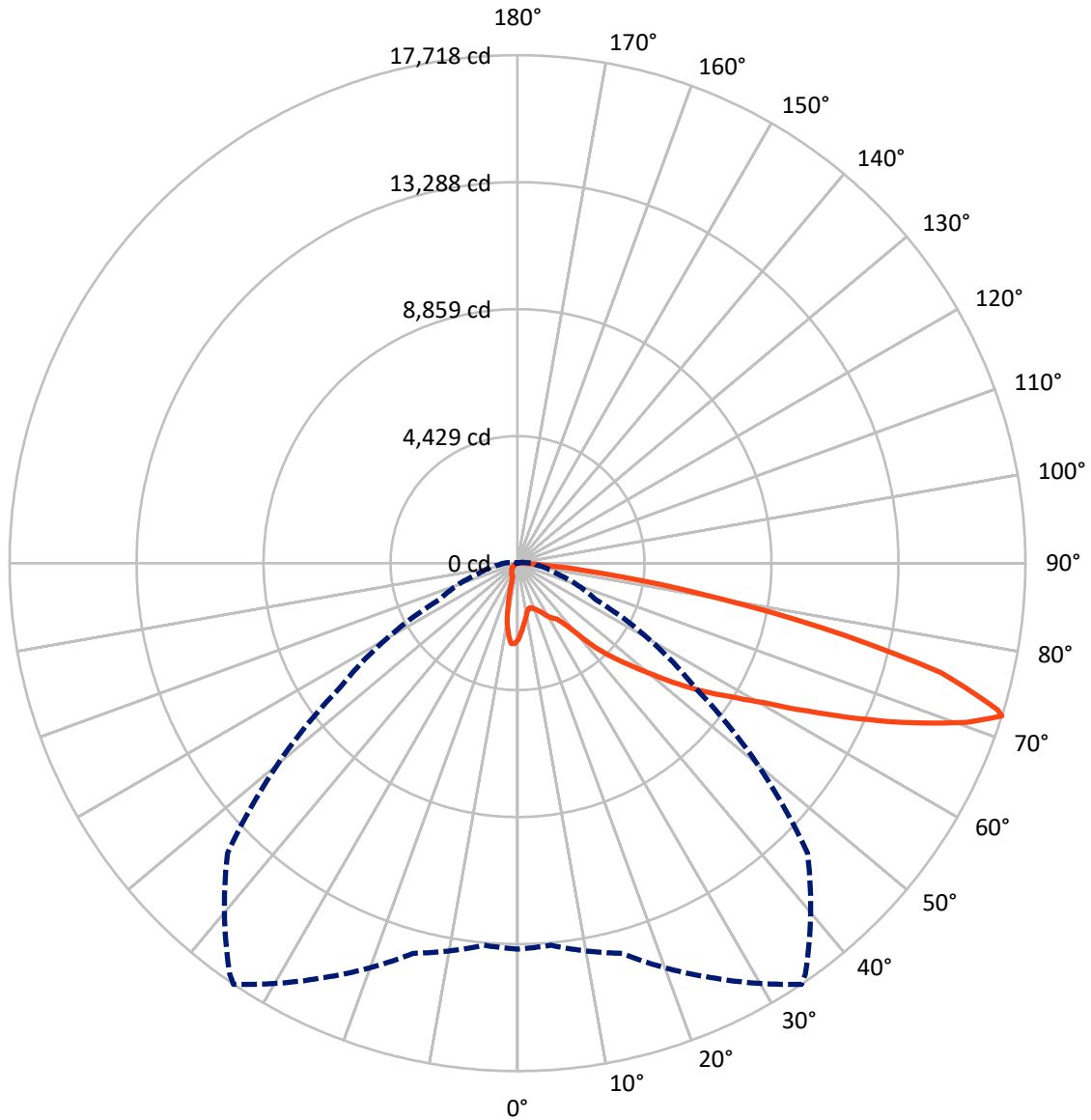
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	1867.9	0.0	1867.9
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	16377.8	0.0	16377.8
	% Fixture	89.8	0.0	89.8
Total	Lumens	18245.8	0.0	18245.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.7	1.3
10°-20°	524.6	2.9
20°-30°	791.9	4.3
30°-40°	1285.0	7.0
40°-50°	2416.4	13.2
50°-60°	3950.9	21.7
60°-70°	5252.2	28.8
70°-80°	3517.4	19.3
80°-90°	275.6	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°	18245.8	100.0
0°-180°	18245.8	100.0

Coefficient of Utilization



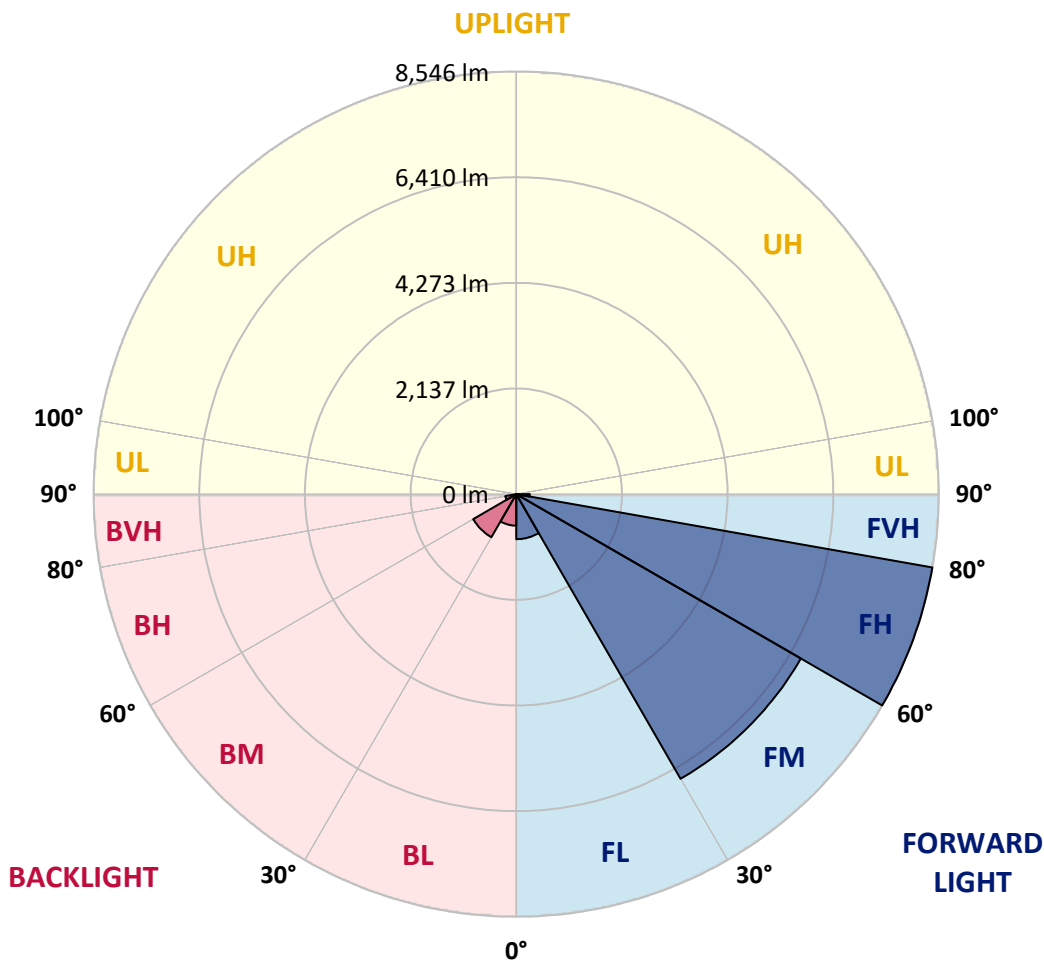
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	910.9	5.0			
FM (30°-60°)	6646.9	36.4			
FH (60°-80°)	8546.2	46.8			G4/12000
FVH (80°-90°)	273.9	1.5			G3/500
BL (0°-30°)	637.3	3.5	B2/1000		
BM (30°-60°)	1005.5	5.5	B2/2500		
BH (60°-80°)	223.4	1.2	B1/500		G1/500
BVH (80°-90°)	1.7	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°	2669.4	2669.4	2669.4	2669.4	2669.4	2669.4	2669.4	2669.4	2669.4	2669.4	2669.4
2.5°	2360.8	2355.5	2371.3	2397.7	2424.1	2413.5	2463.6	2516.4	2553.3	2603.4	2664.1
5°	2062.7	2075.9	2091.7	2144.5	2178.8	2186.7	2279.0	2347.6	2461.0	2577.1	2685.2
7.5°	1791.0	1806.8	1838.5	1896.5	1967.7	1986.2	2078.5	2215.7	2363.4	2516.4	2693.1
10°	1593.2	1609.0	1643.3	1680.2	1775.2	1775.2	1901.8	2091.7	2284.3	2463.6	2695.7
12.5°	1551.0	1558.9	1556.3	1585.3	1645.9	1659.1	1783.1	1991.5	2215.7	2445.2	2738.0
15°	1601.1	1606.4	1580.0	1564.2	1616.9	1630.1	1746.2	1930.8	2170.8	2455.7	2806.5
17.5°	1701.3	1682.9	1630.1	1606.4	1651.2	1659.1	1767.3	1928.2	2165.6	2484.7	2885.7
20°	1759.4	1780.5	1688.1	1643.3	1706.6	1717.2	1833.2	1970.4	2191.9	2534.8	2996.4
22.5°	1862.2	1872.8	1748.8	1719.8	1780.5	1780.5	1912.3	2054.8	2255.2	2616.6	3128.3
25°	2007.3	1994.1	1849.0	1820.0	1878.1	1901.8	2033.7	2189.3	2352.8	2693.1	3249.7
27.5°	2120.7	2128.6	2009.9	1933.4	2031.0	2046.9	2189.3	2334.4	2426.7	2756.4	3397.4
30°	2289.5	2273.7	2147.1	2060.1	2181.4	2184.0	2321.2	2471.5	2569.1	2869.8	3618.9
32.5°	2490.0	2458.4	2313.3	2189.3	2286.9	2310.6	2450.4	2669.4	2790.7	3083.5	3961.9
35°	2914.7	2838.2	2600.8	2408.2	2416.2	2426.7	2643.0	2956.9	3096.7	3355.2	4420.8
37.5°	3534.5	3502.9	3233.8	2867.2	2727.4	2695.7	2938.4	3336.7	3510.8	3713.9	5016.9
40°	4149.1	4104.3	3853.7	3576.7	3323.5	3260.2	3381.6	3840.5	3998.8	4212.4	5628.9
42.5°	4832.3	4753.2	4457.7	4233.5	4075.3	4006.7	3959.2	4473.6	4652.9	4798.0	6227.7
45°	5523.4	5394.1	4966.8	4795.4	4711.0	4674.0	4668.8	5270.2	5378.3	5407.3	6892.4
47.5°	6130.1	5990.3	5602.5	5410.0	5346.7	5336.1	5631.5	6188.1	6103.7	6027.2	7633.6
50°	6596.9	6507.3	6227.7	6159.1	6111.6	6093.1	6784.2	7132.4	6742.0	6607.5	8285.1
52.5°	7319.7	7119.2	6802.7	6826.4	6992.6	6995.2	7952.7	8029.2	7272.2	7005.8	8899.7
55°	7897.3	7765.4	7506.9	7472.7	7910.5	7958.0	8999.9	8709.7	7567.6	7385.6	9126.5
57.5°	8577.9	8517.2	8329.9	8335.2	8794.2	8894.4	9931.0	9284.8	7812.9	7630.9	9160.8
60°	9561.7	9387.6	9290.0	9334.9	9875.6	9973.2	10833.1	9698.9	7931.6	7791.8	9076.4
62.5°	10648.5	10445.4	10339.9	10569.3	11358.0	11373.8	11518.9	10065.5	7857.8	7834.0	8533.0
65°	11956.8	11756.3	11671.9	12133.5	13069.9	13011.9	12481.7	10221.2	7623.0	7409.4	7106.0
67.5°	13259.8	13138.5	12964.4	13700.3	14866.2	14866.2	13481.4	10163.1	7008.4	5948.1	4647.7
70°	13877.0	13961.4	14238.4	15393.7	16630.8	16504.2	14467.9	9495.8	5217.4	3194.3	1827.9
72°	13465.6	13378.5	14093.3	15947.6	17717.6	17509.2	14301.7	7549.2	3014.9	1400.6	635.7
72.5°	12758.6	12840.4	13824.3	15871.2	17514.5	17685.9	13895.5	6963.6	2479.5	1115.8	480.1
75°	7823.5	7963.3	10318.8	13476.1	15261.8	15069.3	10748.7	3318.3	952.2	474.8	171.5
77.5°	2856.6	2972.7	5006.4	8480.3	10854.2	10732.9	6219.7	1179.1	517.0	353.5	87.0
80°	743.8	804.5	1701.3	3911.7	6383.3	6391.2	2603.4	472.2	350.8	290.1	52.8
82.5°	147.7	163.5	522.3	1522.0	2983.3	2943.7	823.0	253.2	263.8	237.4	36.9
85°	18.5	23.7	110.8	517.0	965.4	865.2	203.1	126.6	195.2	184.6	23.7
87.5°	2.6	2.6	26.4	118.7	203.1	197.8	42.2	39.6	87.0	113.4	13.2
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°	2669.4	2669.4	2669.4	2669.4	2669.4	2669.4	2669.4	2669.4	2669.4	2669.4	2669.4
2.5°	2698.4	2708.9	2745.9	2777.5	2814.4	2825.0	2809.2	2835.5	2798.6	2819.7	2825.0
5°	2703.7	2764.3	2832.9	2877.8	2867.2	2840.8	2819.7	2748.5	2698.4	2679.9	2719.5
7.5°	2740.6	2809.2	2883.0	2883.0	2825.0	2687.8	2555.9	2429.3	2323.8	2271.1	2315.9
10°	2788.1	2859.3	2935.8	2835.5	2619.3	2368.7	2181.4	1944.0	1783.1	1698.7	1706.6
12.5°	2851.4	2951.6	2978.0	2745.9	2387.1	2015.2	1675.0	1345.2	1192.2	1070.9	1073.6
15°	2933.1	3030.7	2951.6	2550.7	2091.7	1543.1	1134.2	820.3	699.0	635.7	635.7
17.5°	3041.3	3115.1	2943.7	2371.3	1693.4	1055.1	696.4	553.9	527.5	517.0	517.0
20°	3167.9	3223.3	2867.2	2091.7	1258.2	677.9	511.7	495.9	498.5	493.3	493.3
22.5°	3310.3	3328.8	2780.2	1767.3	852.0	501.2	477.4	480.1	482.7	477.4	480.1
25°	3460.7	3410.6	2653.5	1387.4	567.1	456.3	461.6	466.9	469.5	472.2	472.2
27.5°	3629.5	3529.3	2476.8	1015.5	443.1	429.9	445.8	461.6	464.2	464.2	461.6
30°	3877.4	3711.3	2305.4	688.4	390.4	400.9	427.3	445.8	459.0	459.0	456.3
32.5°	4191.3	3901.2	2065.3	469.5	361.4	366.6	387.7	424.7	453.7	456.3	448.4
35°	4626.6	4130.7	1814.8	374.6	340.3	342.9	356.1	385.1	435.2	451.0	448.4
37.5°	5085.5	4391.8	1503.5	337.6	324.4	321.8	329.7	353.5	398.3	437.9	440.5
40°	5573.5	4666.1	1176.4	319.2	311.3	306.0	308.6	319.2	353.5	403.6	414.1
42.5°	6032.5	4914.1	883.6	300.7	298.1	292.8	292.8	295.4	313.9	348.2	353.5
45°	6528.4	5117.2	672.6	287.5	279.6	282.2	271.7	266.4	279.6	282.2	279.6
47.5°	6992.6	5320.3	538.1	271.7	263.8	263.8	250.6	240.0	240.0	216.3	213.7
50°	7427.8	5431.1	429.9	250.6	247.9	245.3	226.8	208.4	192.6	163.5	158.3
52.5°	7789.2	5425.8	332.4	224.2	232.1	224.2	195.2	168.8	145.1	118.7	113.4
55°	7897.3	5172.6	250.6	184.6	197.8	187.3	155.6	131.9	105.5	84.4	81.8
57.5°	7805.0	4787.5	189.9	142.4	153.0	142.4	118.7	97.6	73.9	58.0	52.8
60°	7496.4	4336.4	147.7	110.8	116.1	108.1	89.7	73.9	52.8	36.9	31.7
62.5°	6910.8	3771.9	113.4	87.0	84.4	84.4	68.6	55.4	36.9	21.1	18.5
65°	5671.1	2941.1	87.0	60.7	60.7	60.7	52.8	39.6	23.7	10.6	5.3
67.5°	3560.9	1711.9	71.2	47.5	44.8	44.8	36.9	26.4	13.2	2.6	0.0
70°	1340.0	627.8	55.4	36.9	34.3	34.3	26.4	15.8	7.9	0.0	0.0
72°	461.6	240.0	44.8	26.4	26.4	23.7	18.5	13.2	5.3	0.0	0.0
72.5°	379.8	192.6	42.2	26.4	23.7	23.7	18.5	13.2	5.3	0.0	0.0
75°	137.2	79.1	29.0	18.5	15.8	15.8	13.2	7.9	2.6	0.0	0.0
77.5°	68.6	50.1	23.7	15.8	13.2	7.9	7.9	5.3	2.6	0.0	0.0
80°	42.2	31.7	13.2	10.6	7.9	5.3	2.6	2.6	0.0	0.0	0.0
82.5°	29.0	18.5	7.9	7.9	5.3	2.6	0.0	0.0	0.0	0.0	0.0
85°	18.5	7.9	5.3	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	5.3	2.6	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)