

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: P484394

Luminaire Tested: **IFLD-S-SA2D-740-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484394
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-740-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

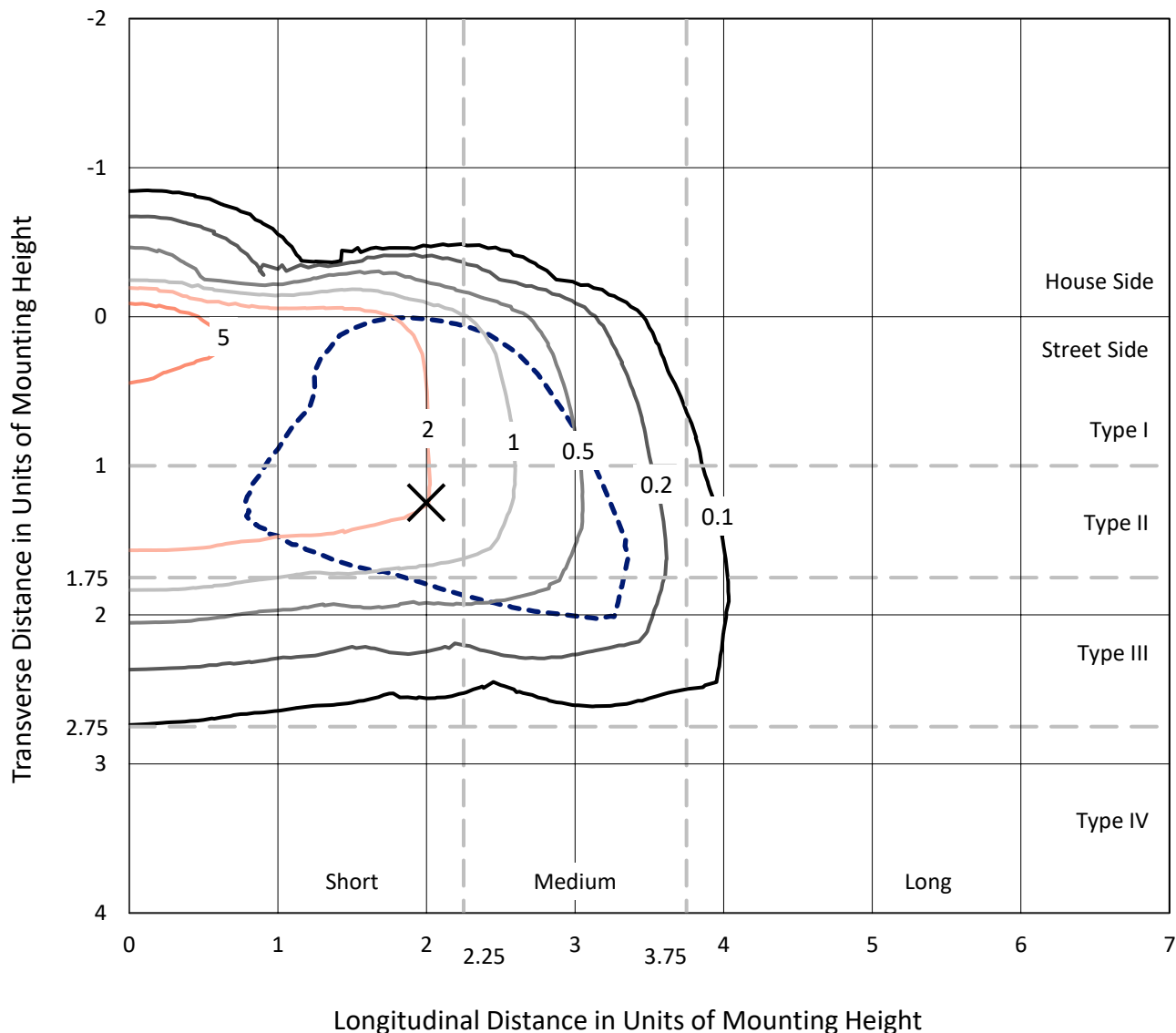
Lumens per Lamp: N/A
Luminaire Lumens: 13079.2 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
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

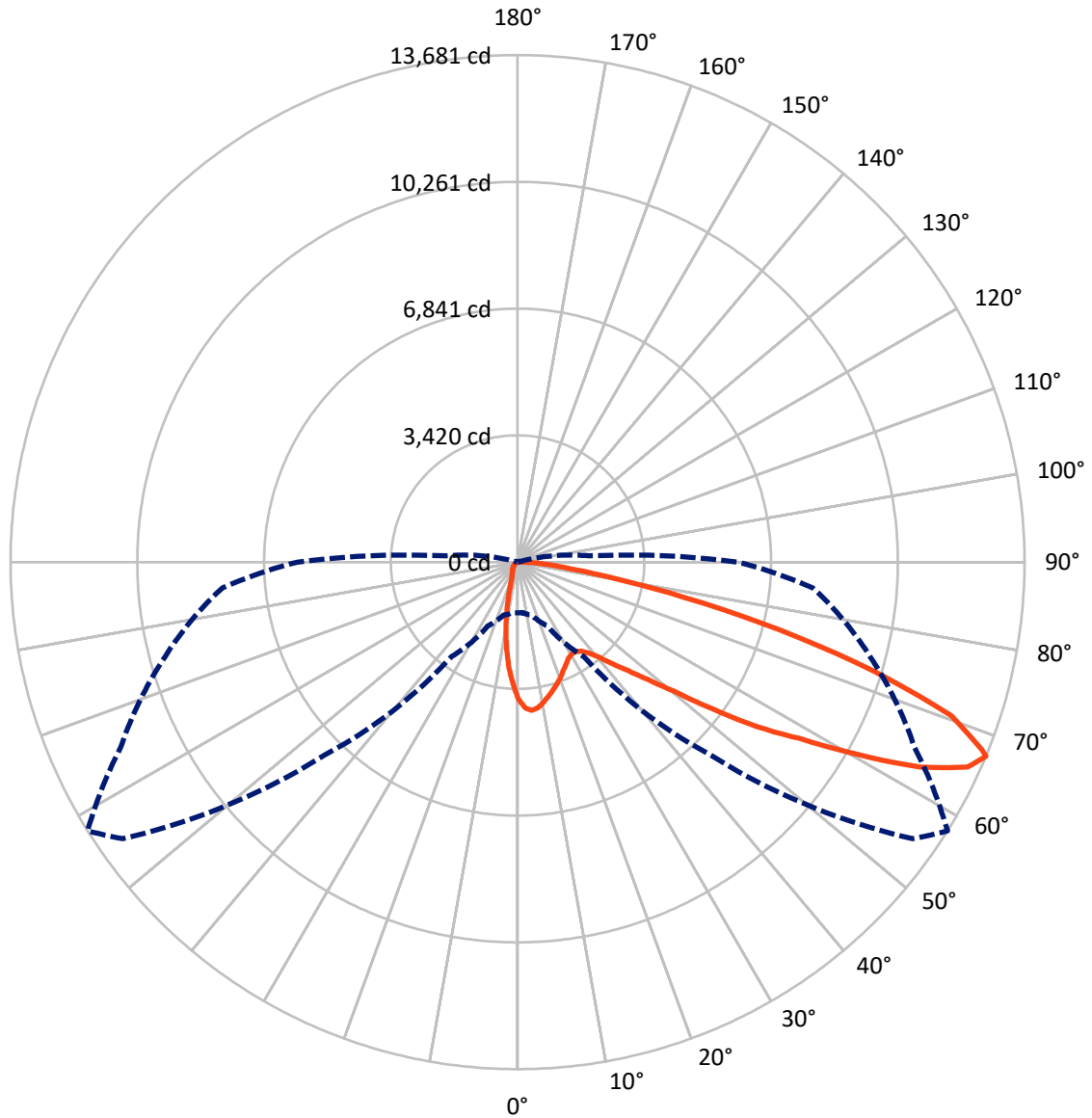
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1081.1	0.0	1081.1
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	11998.2	0.0	11998.2
	% Fixture	91.7	0.0	91.7
Total	Lumens	13079.2	0.0	13079.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.0	2.2
10°-20°	609.8	4.7
20°-30°	809.1	6.2
30°-40°	1121.2	8.6
40°-50°	1829.5	14.0
50°-60°	3215.6	24.6
60°-70°	3561.6	27.2
70°-80°	1475.9	11.3
80°-90°	162.5	1.2
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°	13079.2	100.0
0°-180°	13079.2	100.0

Coefficient of Utilization



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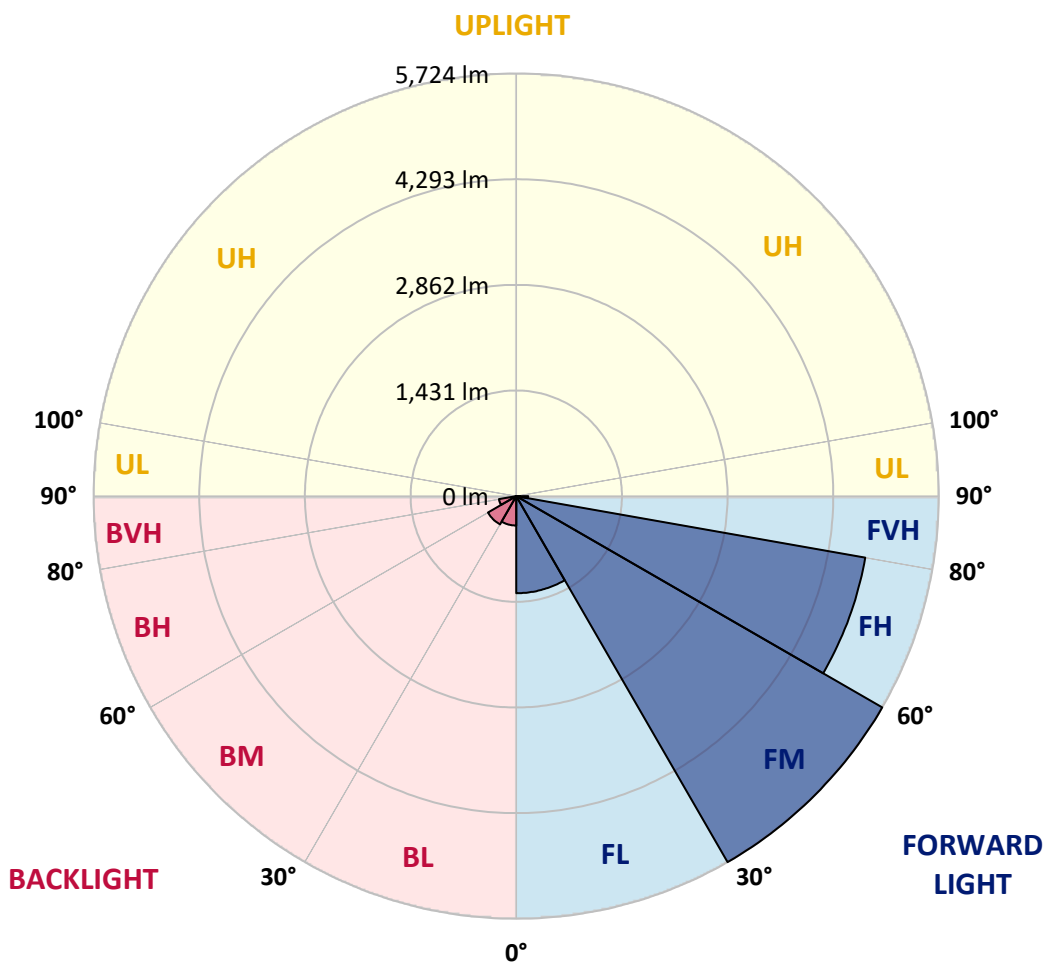
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1314.8	10.1			
FM (30°-60°)	5723.7	43.8			
FH (60°-80°)	4799.8	36.7			G2/5000
FVH (80°-90°)	159.8	1.2			G2/225
BL (0°-30°)	398.2	3.0	B1/500		
BM (30°-60°)	442.6	3.4	B1/1000		
BH (60°-80°)	237.7	1.8	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3705.5	3705.5	3705.5	3705.5	3705.5	3705.5	3705.5	3705.5	3705.5	3705.5	3705.5
2.5°	4032.0	4045.9	4058.0	4035.5	4054.6	4026.8	3955.6	3939.9	3927.8	3821.9	3761.1
5°	4030.2	4014.6	4026.8	4037.2	4011.1	4032.0	4014.6	4016.4	3969.5	3874.0	3703.8
7.5°	3761.1	3754.2	3761.1	3811.5	3868.8	3913.9	3939.9	3966.0	3934.7	3792.4	3627.4
10°	3398.2	3432.9	3452.0	3542.3	3630.9	3714.2	3795.8	3844.4	3835.8	3778.5	3544.0
12.5°	3144.7	3134.2	3203.7	3262.7	3351.3	3519.7	3662.1	3707.3	3759.4	3679.5	3434.7
15°	2910.2	2882.5	2924.1	3026.6	3177.7	3311.4	3511.1	3578.8	3644.8	3665.6	3375.6
17.5°	2686.3	2700.1	2743.6	2835.6	2978.0	3165.5	3353.0	3450.3	3608.3	3580.5	3287.1
20°	2578.6	2608.1	2623.7	2670.6	2769.6	2957.1	3236.7	3314.8	3483.3	3578.8	3200.2
22.5°	2583.8	2583.8	2547.3	2575.1	2665.4	2811.3	3078.7	3165.5	3432.9	3488.5	3122.1
25°	2639.4	2604.6	2606.4	2573.4	2611.6	2691.5	2936.3	3042.2	3330.5	3497.2	3080.4
27.5°	2681.0	2674.1	2663.7	2655.0	2606.4	2618.5	2842.5	2929.4	3290.5	3486.7	3016.2
30°	2832.1	2800.9	2790.4	2771.3	2707.1	2648.0	2767.9	2877.3	3259.3	3511.1	2979.7
32.5°	2958.9	2964.1	2972.8	2917.2	2861.6	2715.8	2788.7	2875.5	3236.7	3566.6	3016.2
35°	3118.6	3141.2	3144.7	3127.3	3068.3	2924.1	2875.5	2950.2	3274.9	3665.6	3019.6
37.5°	3361.7	3337.4	3403.4	3410.3	3368.7	3177.7	3076.9	3106.5	3387.8	3823.6	3151.6
40°	3519.7	3549.3	3672.5	3748.9	3677.7	3504.1	3368.7	3363.5	3551.0	4071.9	3314.8
42.5°	3695.1	3761.1	3896.5	4061.5	4052.8	3891.3	3754.2	3731.6	3841.0	4431.4	3573.6
45°	3934.7	3993.8	4183.0	4431.4	4566.8	4429.6	4223.0	4177.8	4193.5	4921.0	4014.6
47.5°	4332.4	4316.8	4589.4	4834.2	5056.5	4950.5	4862.0	4730.0	4717.9	5497.5	4624.1
50°	4782.1	4778.6	5021.7	5299.6	5556.6	5763.2	5615.6	5471.5	5475.0	6280.7	5341.2
52.5°	5209.3	5277.0	5539.2	5815.3	6256.3	6478.6	6621.0	6563.7	6287.6	6980.4	6108.7
55°	5435.0	5494.1	5754.5	6230.3	6926.6	7497.9	7883.4	7834.8	7301.7	7768.8	6865.8
57.5°	5221.4	5261.4	5613.9	6237.2	7395.4	8670.0	9039.8	8979.1	8350.5	8371.3	7780.9
60°	4327.2	4389.7	4914.1	5645.1	7213.1	9572.9	10632.1	10540.1	9305.5	9133.6	8369.6
62.5°	2997.1	3038.7	3469.4	4379.3	6348.4	9887.2	12135.9	12186.2	10312.6	9727.5	8545.0
65°	1941.3	1937.9	2184.4	2800.9	4499.1	8935.6	13024.9	13337.5	11285.0	9817.8	8491.1
67°	1371.8	1366.6	1482.9	1899.6	3115.1	7362.4	13009.3	13681.3	11812.9	9843.8	7992.8
67.5°	1265.9	1260.6	1371.8	1746.8	2811.3	6846.7	12814.8	13504.2	11998.7	9807.3	7774.0
70°	982.8	968.9	1010.6	1203.3	1637.4	4427.9	10967.3	12405.0	11613.2	8897.4	6207.7
72.5°	710.2	725.8	791.8	988.0	1285.0	2382.4	8359.2	10031.3	9699.7	6706.1	3945.2
75°	494.9	508.8	614.7	805.7	1179.0	1444.7	5652.1	7275.6	6756.4	3702.1	1680.9
77.5°	258.7	276.1	392.4	644.2	1071.4	1118.3	3377.3	4613.7	3580.5	1317.9	463.6
80°	119.8	128.5	196.2	456.7	896.0	982.8	1969.1	2566.4	1432.6	295.2	159.8
82.5°	52.1	57.3	90.3	262.2	635.5	859.5	1219.0	1345.7	519.2	95.5	99.0
85°	10.4	12.2	34.7	138.9	307.3	520.9	856.1	798.8	260.5	46.9	78.1
87.5°	0.0	0.0	8.7	39.9	83.3	154.5	362.9	362.9	79.9	24.3	29.5
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°	3705.5	3705.5	3705.5	3705.5	3705.5	3705.5	3705.5	3705.5	3705.5	3705.5	3705.5
2.5°	3707.3	3644.8	3507.6	3380.8	3290.5	3188.1	3052.6	2991.9	2969.3	2938.0	2891.1
5°	3610.0	3533.6	3299.2	3063.1	2804.3	2608.1	2399.7	2278.2	2186.2	2128.9	2109.8
7.5°	3472.9	3316.6	3000.5	2622.0	2286.9	1995.2	1679.1	1465.5	1328.4	1272.8	1220.7
10°	3363.5	3160.3	2679.3	2208.7	1762.5	1335.3	979.3	791.8	649.4	595.6	588.6
12.5°	3221.1	2978.0	2378.9	1786.8	1225.9	795.3	541.8	470.6	430.6	423.7	418.5
15°	3103.0	2813.0	2094.1	1383.9	793.5	496.6	422.0	404.6	394.2	390.7	392.4
17.5°	3023.1	2635.9	1802.4	1007.1	522.7	406.3	389.0	378.5	373.3	371.6	366.4
20°	2865.1	2486.6	1514.2	705.0	408.1	375.1	361.2	352.5	347.3	345.5	343.8
22.5°	2774.8	2297.3	1225.9	491.4	362.9	340.3	329.9	323.0	314.3	309.1	307.3
25°	2684.5	2158.4	968.9	382.0	329.9	314.3	298.7	290.0	276.1	269.1	267.4
27.5°	2578.6	2021.2	746.7	331.7	296.9	281.3	265.7	251.8	234.4	227.5	224.0
30°	2517.8	1887.5	562.6	296.9	272.6	251.8	232.7	215.3	196.2	184.1	180.6
32.5°	2486.6	1765.9	422.0	270.9	246.6	224.0	199.7	178.9	161.5	151.1	149.3
35°	2448.4	1647.9	331.7	246.6	222.3	198.0	173.6	152.8	135.4	126.8	123.3
37.5°	2488.3	1578.4	276.1	227.5	203.2	175.4	149.3	128.5	114.6	105.9	104.2
40°	2597.7	1521.1	239.6	210.1	184.1	154.5	130.2	109.4	97.2	90.3	86.8
42.5°	2766.1	1521.1	217.1	192.7	166.7	135.4	111.1	95.5	83.3	76.4	74.7
45°	3071.7	1568.0	198.0	175.4	145.9	116.3	95.5	79.9	67.7	60.8	59.0
47.5°	3500.6	1675.7	182.3	159.8	130.2	102.4	83.3	67.7	55.6	48.6	46.9
50°	4077.1	1920.5	166.7	140.7	116.3	88.6	69.5	53.8	43.4	36.5	34.7
52.5°	4796.0	2267.8	151.1	130.2	99.0	74.7	55.6	43.4	33.0	27.8	26.0
55°	5556.6	2693.2	132.0	116.3	85.1	62.5	45.1	33.0	24.3	20.8	19.1
57.5°	6322.3	3021.4	116.3	100.7	69.5	50.4	36.5	26.0	17.4	13.9	12.2
60°	6728.6	3052.6	100.7	83.3	55.6	39.9	27.8	19.1	12.2	8.7	6.9
62.5°	6791.2	2774.8	86.8	67.7	45.1	31.3	19.1	13.9	6.9	3.5	3.5
65°	6469.9	2312.9	74.7	53.8	34.7	22.6	13.9	8.7	3.5	1.7	0.0
67°	5949.0	1937.9	64.2	45.1	27.8	17.4	10.4	5.2	1.7	0.0	0.0
67.5°	5747.6	1833.7	60.8	41.7	26.0	15.6	8.7	5.2	1.7	0.0	0.0
70°	4460.9	1309.3	45.1	29.5	19.1	12.2	6.9	3.5	0.0	0.0	0.0
72.5°	2733.1	765.8	34.7	20.8	13.9	8.7	5.2	1.7	0.0	0.0	0.0
75°	1146.0	263.9	29.5	15.6	10.4	5.2	3.5	1.7	0.0	0.0	0.0
77.5°	298.7	99.0	20.8	10.4	6.9	5.2	3.5	1.7	0.0	0.0	0.0
80°	121.5	45.1	13.9	6.9	6.9	5.2	3.5	1.7	0.0	0.0	0.0
82.5°	79.9	20.8	8.7	6.9	5.2	3.5	1.7	0.0	0.0	0.0	0.0
85°	60.8	12.2	5.2	5.2	3.5	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	26.0	6.9	5.2	3.5	3.5	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)