

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: P484399

Luminaire Tested: **IFLD-S-SA3D-740-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484399
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-740-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

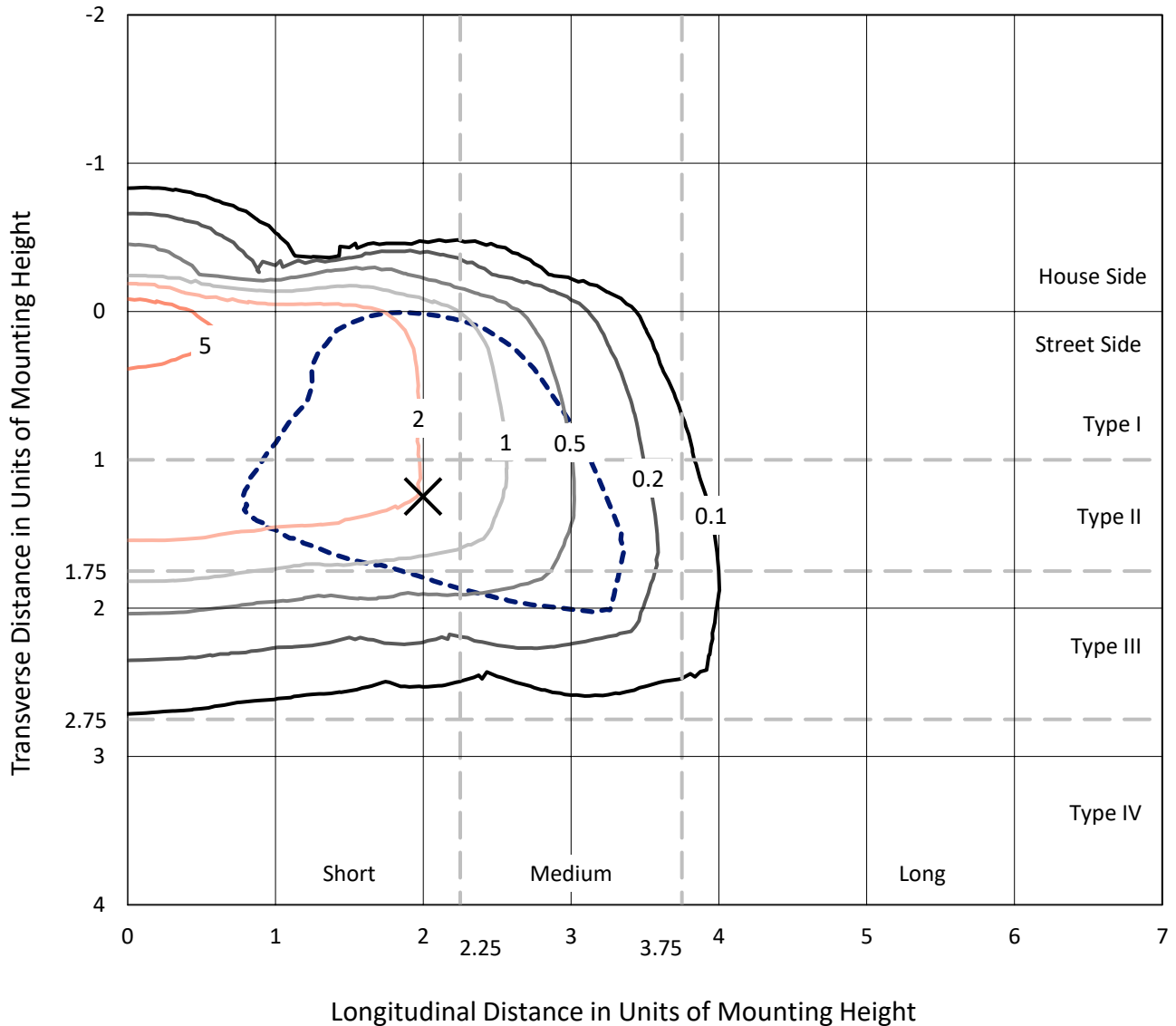
Lumens per Lamp: N/A
Luminaire Lumens: 19491.5 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1
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

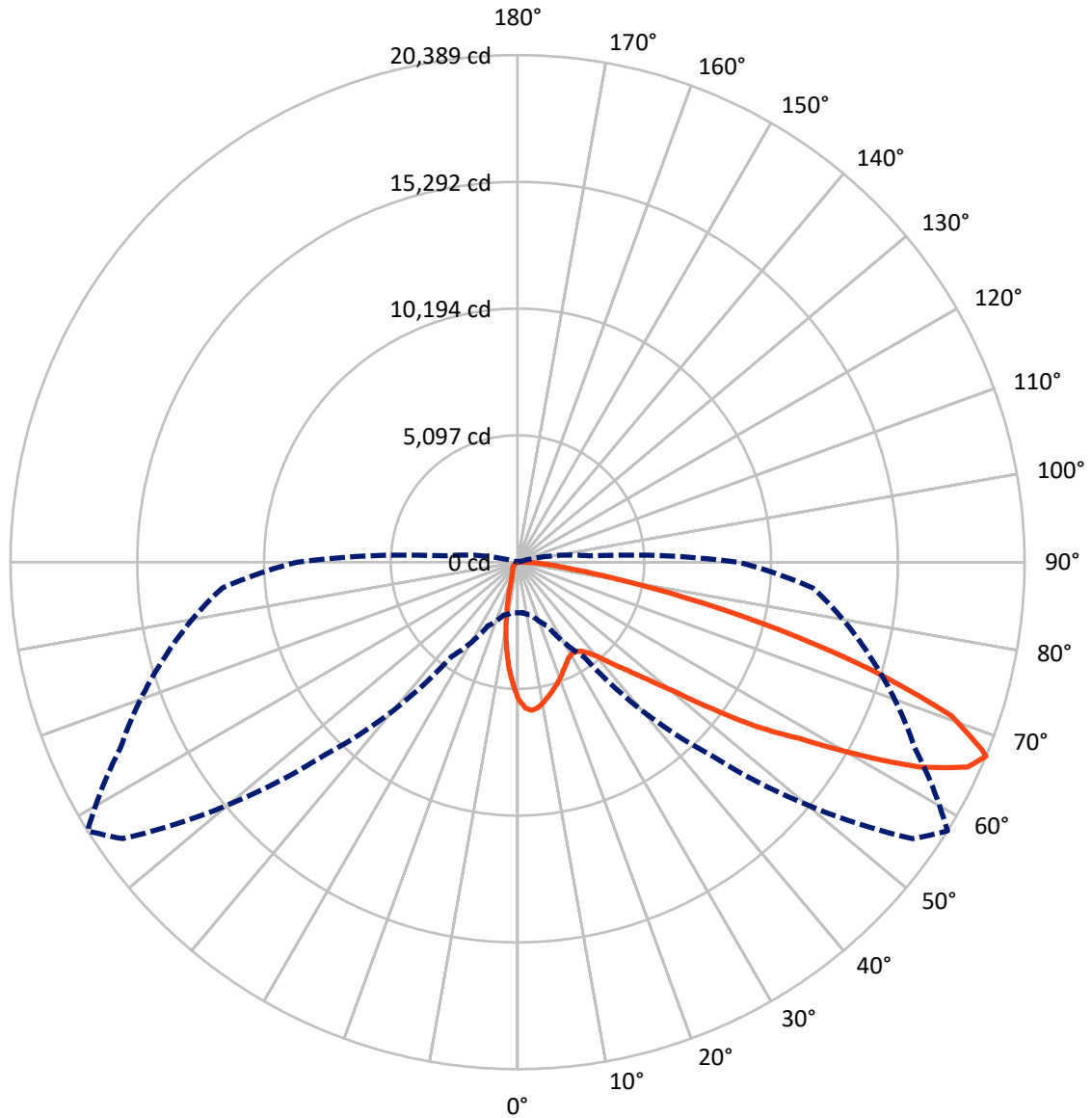
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	1611.1	0.0	1611.1
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	17880.4	0.0	17880.4
	% Fixture	91.7	0.0	91.7
Total	Lumens	19491.5	0.0	19491.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.2	2.2
10°-20°	908.8	4.7
20°-30°	1205.8	6.2
30°-40°	1670.9	8.6
40°-50°	2726.4	14.0
50°-60°	4792.1	24.6
60°-70°	5307.7	27.2
70°-80°	2199.5	11.3
80°-90°	242.1	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°	19491.5	100.0
0°-180°	19491.5	100.0

Coefficient of Utilization



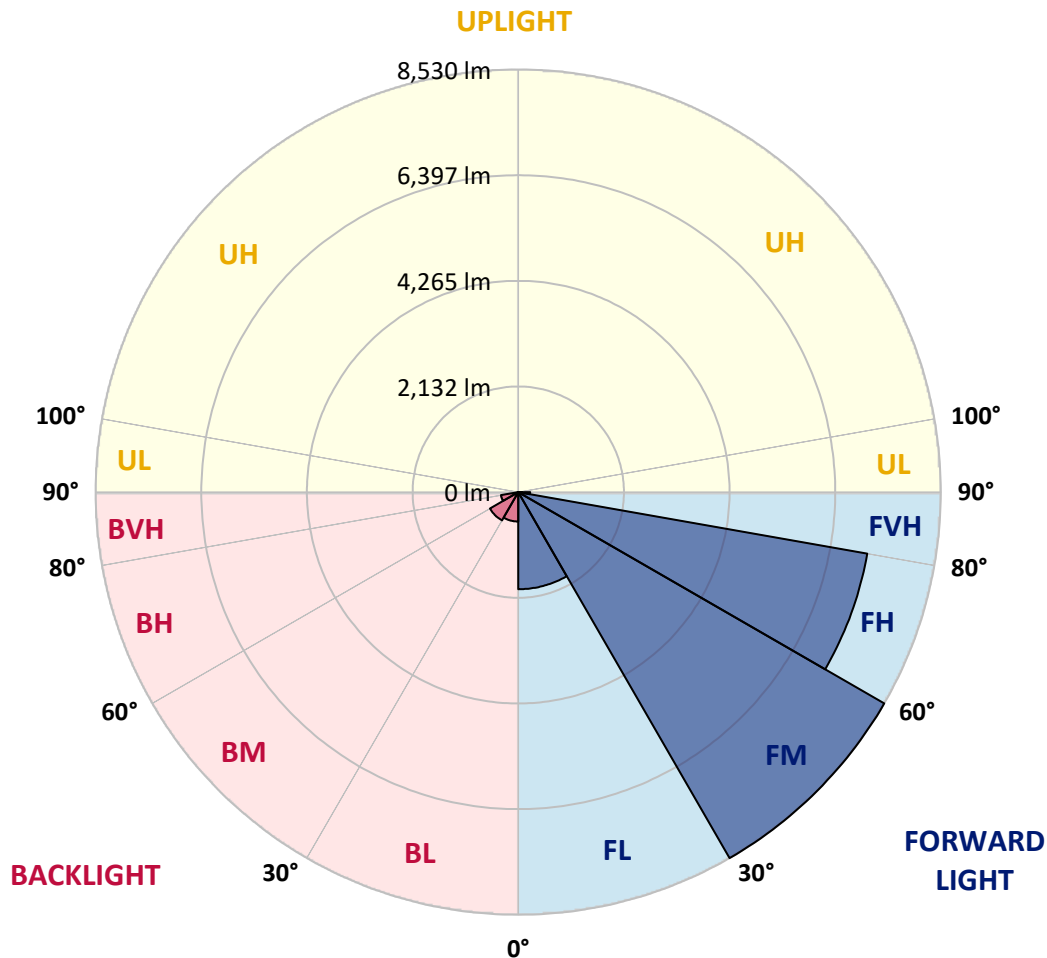
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1959.4	10.1			
FM (30°-60°)	8529.9	43.8			
FH (60°-80°)	7153.0	36.7			G3/7500
FVH (80°-90°)	238.1	1.2			G3/500
BL (0°-30°)	593.4	3.0	B2/1000		
BM (30°-60°)	659.5	3.4	B1/1000		
BH (60°-80°)	354.2	1.8	B1/500		G1/500
BVH (80°-90°)	4.0	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5522.2	5522.2	5522.2	5522.2	5522.2	5522.2	5522.2	5522.2	5522.2	5522.2	5522.2
2.5°	6008.7	6029.4	6047.5	6013.9	6042.4	6000.9	5894.9	5871.6	5853.4	5695.6	5605.0
5°	6006.1	5982.8	6000.9	6016.5	5977.7	6008.7	5982.8	5985.4	5915.6	5773.2	5519.6
7.5°	5605.0	5594.7	5605.0	5680.1	5765.5	5832.7	5871.6	5910.4	5863.8	5651.6	5405.8
10°	5064.2	5115.9	5144.4	5279.0	5410.9	5535.2	5656.8	5729.2	5716.3	5630.9	5281.6
12.5°	4686.4	4670.9	4774.4	4862.3	4994.3	5245.3	5457.5	5524.8	5602.4	5483.4	5118.5
15°	4337.0	4295.6	4357.7	4510.4	4735.5	4934.8	5232.4	5333.3	5431.6	5462.7	5030.6
17.5°	4003.2	4023.9	4088.6	4225.8	4438.0	4717.4	4996.9	5141.8	5377.3	5335.9	4898.6
20°	3842.8	3886.8	3910.1	3979.9	4127.4	4406.9	4823.5	4940.0	5191.0	5333.3	4769.2
22.5°	3850.5	3850.5	3796.2	3837.6	3972.2	4189.5	4588.0	4717.4	5115.9	5198.8	4652.7
25°	3933.4	3881.6	3884.2	3835.0	3891.9	4011.0	4375.9	4533.7	4963.3	5211.7	4590.6
27.5°	3995.5	3985.1	3969.6	3956.6	3884.2	3902.3	4236.1	4365.5	4903.8	5196.2	4494.9
30°	4220.6	4174.0	4158.5	4130.0	4034.3	3946.3	4124.8	4287.9	4857.2	5232.4	4440.5
32.5°	4409.5	4417.3	4430.2	4347.4	4264.6	4047.2	4155.9	4285.3	4823.5	5315.2	4494.9
35°	4647.6	4681.2	4686.4	4660.5	4572.5	4357.7	4285.3	4396.6	4880.5	5462.7	4500.1
37.5°	5009.8	4973.6	5072.0	5082.3	5020.2	4735.5	4585.5	4629.5	5048.7	5698.2	4696.7
40°	5245.3	5289.3	5473.1	5586.9	5480.8	5222.0	5020.2	5012.4	5291.9	6068.2	4940.0
42.5°	5506.7	5605.0	5806.9	6052.7	6039.8	5799.1	5594.7	5561.0	5724.1	6603.9	5325.6
45°	5863.8	5951.8	6233.8	6603.9	6805.7	6601.3	6293.4	6226.1	6249.4	7333.6	5982.8
47.5°	6456.4	6433.1	6839.4	7204.2	7535.5	7377.6	7245.6	7049.0	7030.9	8192.8	6891.1
50°	7126.6	7121.4	7483.7	7897.8	8280.7	8588.7	8368.7	8153.9	8159.1	9359.8	7959.9
52.5°	7763.2	7864.1	8254.9	8666.3	9323.6	9654.8	9867.0	9781.6	9370.2	10402.7	9103.6
55°	8099.6	8187.6	8575.7	9284.8	10322.5	11173.8	11748.3	11675.8	10881.4	11577.5	10231.9
57.5°	7781.3	7840.8	8366.1	9295.1	11021.1	12920.5	13471.7	13381.2	12444.4	12475.5	11595.6
60°	6448.6	6541.8	7323.3	8412.7	10749.4	14266.2	15844.7	15707.5	13867.7	13611.5	12472.9
62.5°	4466.4	4528.5	5170.3	6526.3	9460.7	14734.5	18085.7	18160.7	15368.5	14496.5	12734.2
65°	2893.1	2887.9	3255.4	4174.0	6704.8	13316.5	19410.6	19876.4	16817.7	14631.0	12654.0
67°	2044.3	2036.5	2209.9	2831.0	4642.4	10972.0	19387.3	20388.7	17604.3	14669.9	11911.3
67.5°	1886.5	1878.7	2044.3	2603.3	4189.5	10203.4	19097.5	20124.8	17881.2	14615.5	11585.3
70°	1464.7	1444.0	1506.1	1793.3	2440.2	6598.7	16344.1	18486.8	17306.7	13259.5	9251.1
72.5°	1058.4	1081.7	1180.0	1472.4	1914.9	3550.4	12457.3	14949.3	14455.1	9993.8	5879.3
75°	737.5	758.2	916.1	1200.7	1757.1	2153.0	8423.1	10842.6	10068.9	5517.0	2504.9
77.5°	385.6	411.4	584.8	960.0	1596.6	1666.5	5033.1	6875.6	5335.9	1964.1	690.9
80°	178.6	191.5	292.4	680.6	1335.3	1464.7	2934.5	3824.7	2134.9	439.9	238.1
82.5°	77.6	85.4	134.6	390.7	947.1	1280.9	1816.6	2005.5	773.7	142.3	147.5
85°	15.5	18.1	51.8	207.0	458.0	776.3	1275.8	1190.4	388.2	69.9	116.4
87.5°	0.0	0.0	12.9	59.5	124.2	230.3	540.8	540.8	119.0	36.2	44.0
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°	5522.2	5522.2	5522.2	5522.2	5522.2	5522.2	5522.2	5522.2	5522.2	5522.2	5522.2
2.5°	5524.8	5431.6	5227.2	5038.3	4903.8	4751.1	4549.2	4458.7	4425.0	4378.4	4308.6
5°	5379.9	5266.0	4916.7	4564.8	4179.2	3886.8	3576.2	3395.1	3258.0	3172.6	3144.1
7.5°	5175.5	4942.6	4471.6	3907.5	3408.0	2973.3	2502.3	2184.0	1979.6	1896.8	1819.2
10°	5012.4	4709.7	3992.9	3291.6	2626.5	1990.0	1459.5	1180.0	967.8	887.6	877.2
12.5°	4800.2	4438.0	3545.2	2662.8	1826.9	1185.2	807.4	701.3	641.8	631.4	623.6
15°	4624.3	4192.1	3120.8	2062.4	1182.6	740.1	628.8	602.9	587.4	582.2	584.8
17.5°	4505.2	3928.2	2686.1	1500.9	778.9	605.5	579.7	564.1	556.4	553.8	546.0
20°	4269.8	3705.6	2256.5	1050.6	608.1	559.0	538.2	525.3	517.5	515.0	512.4
22.5°	4135.2	3423.6	1826.9	732.3	540.8	507.2	491.7	481.3	468.4	460.6	458.0
25°	4000.6	3216.6	1444.0	569.3	491.7	468.4	445.1	432.2	411.4	401.1	398.5
27.5°	3842.8	3012.1	1112.7	494.3	442.5	419.2	395.9	375.2	349.3	339.0	333.8
30°	3752.2	2812.9	838.4	442.5	406.3	375.2	346.8	320.9	292.4	274.3	269.1
32.5°	3705.6	2631.7	628.8	403.7	367.5	333.8	297.6	266.5	240.7	225.1	222.5
35°	3648.7	2455.8	494.3	367.5	331.2	295.0	258.8	227.7	201.8	188.9	183.7
37.5°	3708.2	2352.2	411.4	339.0	302.8	261.4	222.5	191.5	170.8	157.9	155.3
40°	3871.2	2266.9	357.1	313.1	274.3	230.3	194.1	163.0	144.9	134.6	129.4
42.5°	4122.3	2266.9	323.5	287.2	248.4	201.8	165.6	142.3	124.2	113.9	111.3
45°	4577.7	2336.7	295.0	261.4	217.4	173.4	142.3	119.0	100.9	90.6	88.0
47.5°	5216.9	2497.2	271.7	238.1	194.1	152.7	124.2	100.9	82.8	72.5	69.9
50°	6076.0	2862.0	248.4	209.6	173.4	132.0	103.5	80.2	64.7	54.3	51.8
52.5°	7147.3	3379.6	225.1	194.1	147.5	111.3	82.8	64.7	49.2	41.4	38.8
55°	8280.7	4013.6	196.7	173.4	126.8	93.2	67.3	49.2	36.2	31.1	28.5
57.5°	9421.9	4502.7	173.4	150.1	103.5	75.0	54.3	38.8	25.9	20.7	18.1
60°	10027.5	4549.2	150.1	124.2	82.8	59.5	41.4	28.5	18.1	12.9	10.4
62.5°	10120.6	4135.2	129.4	100.9	67.3	46.6	28.5	20.7	10.4	5.2	5.2
65°	9641.9	3446.9	111.3	80.2	51.8	33.6	20.7	12.9	5.2	2.6	0.0
67°	8865.6	2887.9	95.7	67.3	41.4	25.9	15.5	7.8	2.6	0.0	0.0
67.5°	8565.4	2732.6	90.6	62.1	38.8	23.3	12.9	7.8	2.6	0.0	0.0
70°	6647.9	1951.1	67.3	44.0	28.5	18.1	10.4	5.2	0.0	0.0	0.0
72.5°	4073.1	1141.2	51.8	31.1	20.7	12.9	7.8	2.6	0.0	0.0	0.0
75°	1707.9	393.3	44.0	23.3	15.5	7.8	5.2	2.6	0.0	0.0	0.0
77.5°	445.1	147.5	31.1	15.5	10.4	7.8	5.2	2.6	0.0	0.0	0.0
80°	181.1	67.3	20.7	10.4	10.4	7.8	5.2	2.6	0.0	0.0	0.0
82.5°	119.0	31.1	12.9	10.4	7.8	5.2	2.6	0.0	0.0	0.0	0.0
85°	90.6	18.1	7.8	7.8	5.2	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	38.8	10.4	7.8	5.2	5.2	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)