

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: P484360

Luminaire Tested: **IFLD-S-SA3D-735-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484360
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-735-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

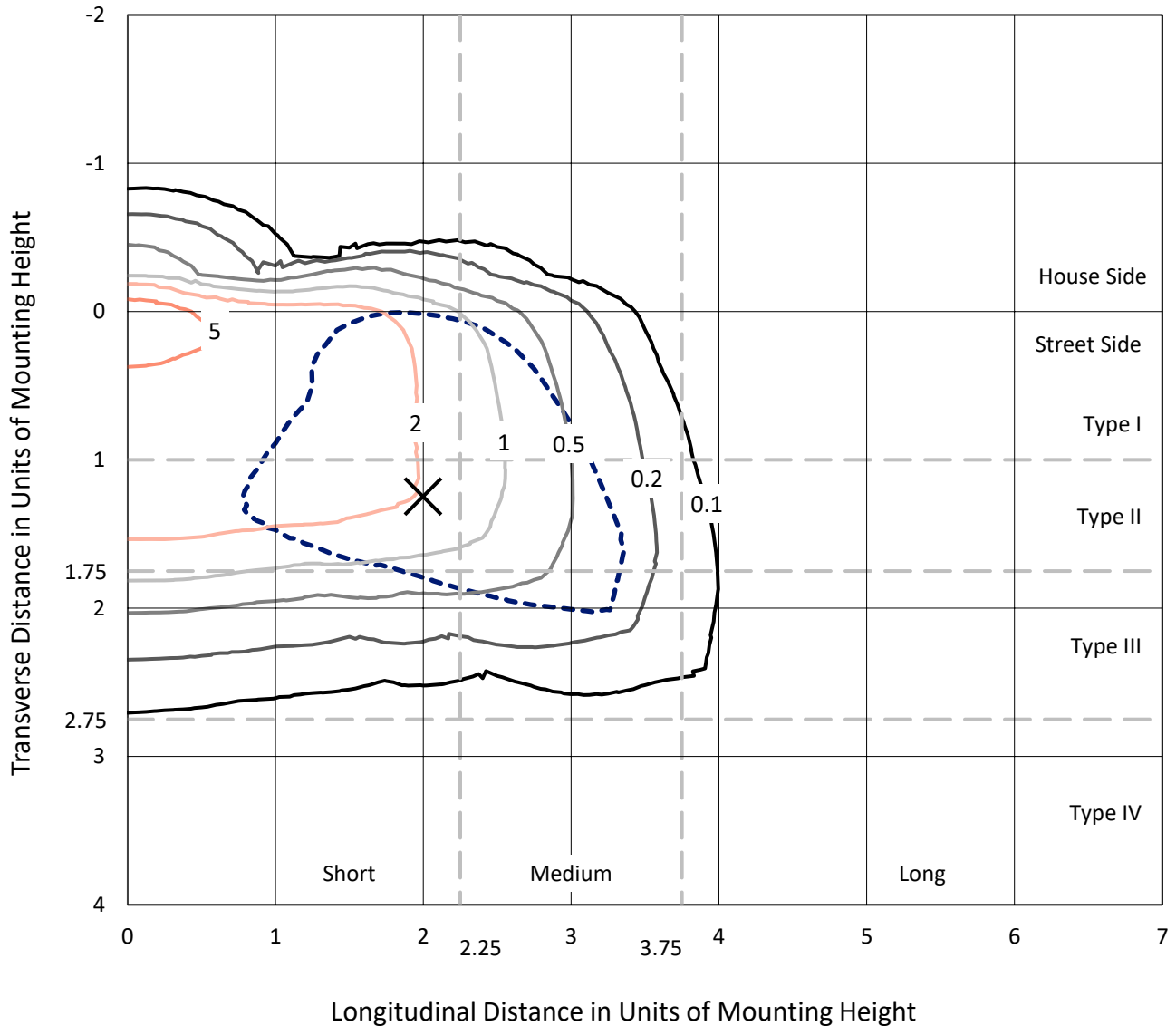
Lumens per Lamp: N/A
Luminaire Lumens: 19224.5 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

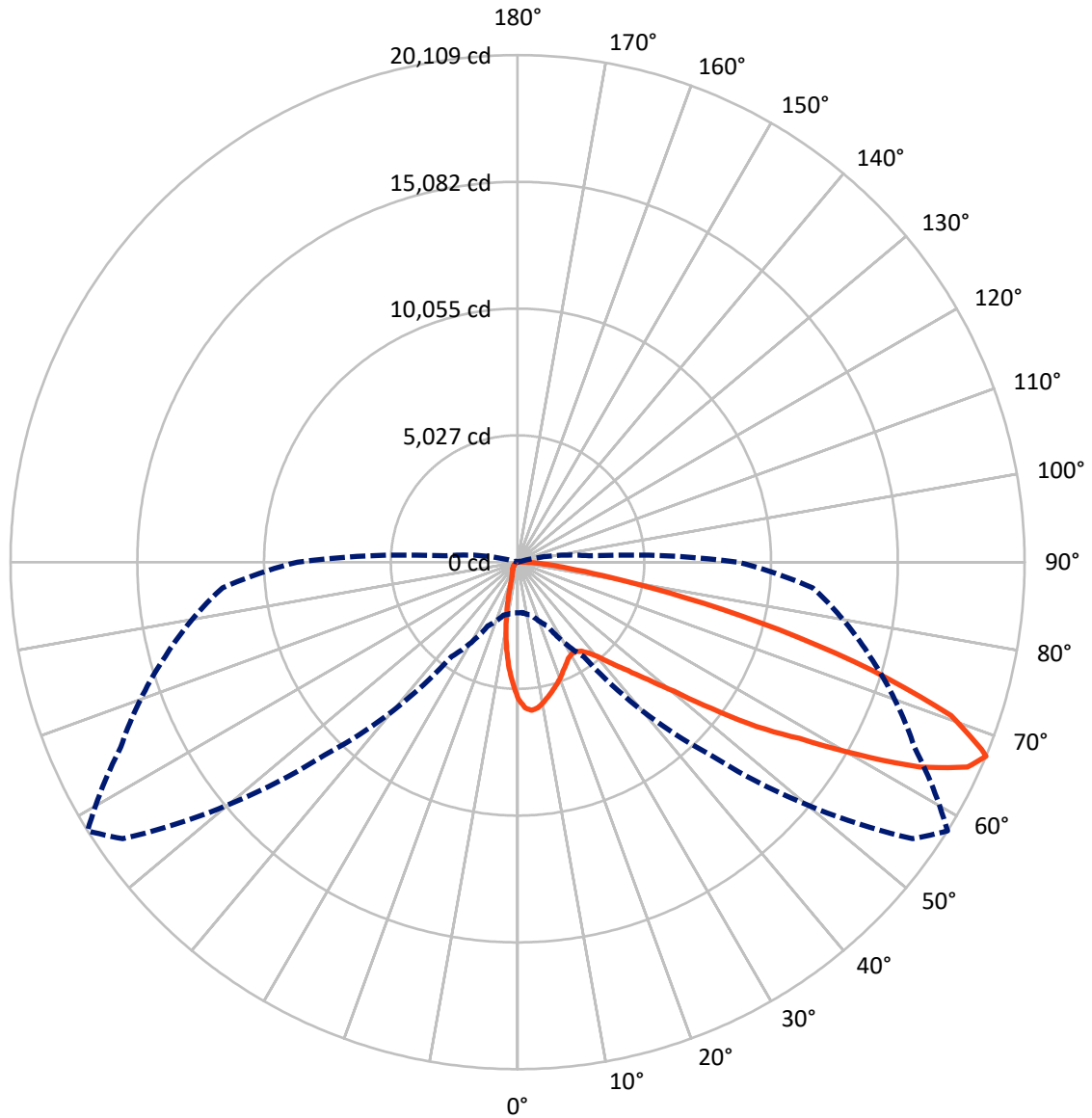
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	1589.0	0.0	1589.0
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	17635.5	0.0	17635.5
	% Fixture	91.7	0.0	91.7
Total	Lumens	19224.5	0.0	19224.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.2	2.2
10°-20°	896.4	4.7
20°-30°	1189.3	6.2
30°-40°	1648.0	8.6
40°-50°	2689.0	14.0
50°-60°	4726.5	24.6
60°-70°	5235.0	27.2
70°-80°	2169.4	11.3
80°-90°	238.8	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°	19224.5	100.0
0°-180°	19224.5	100.0



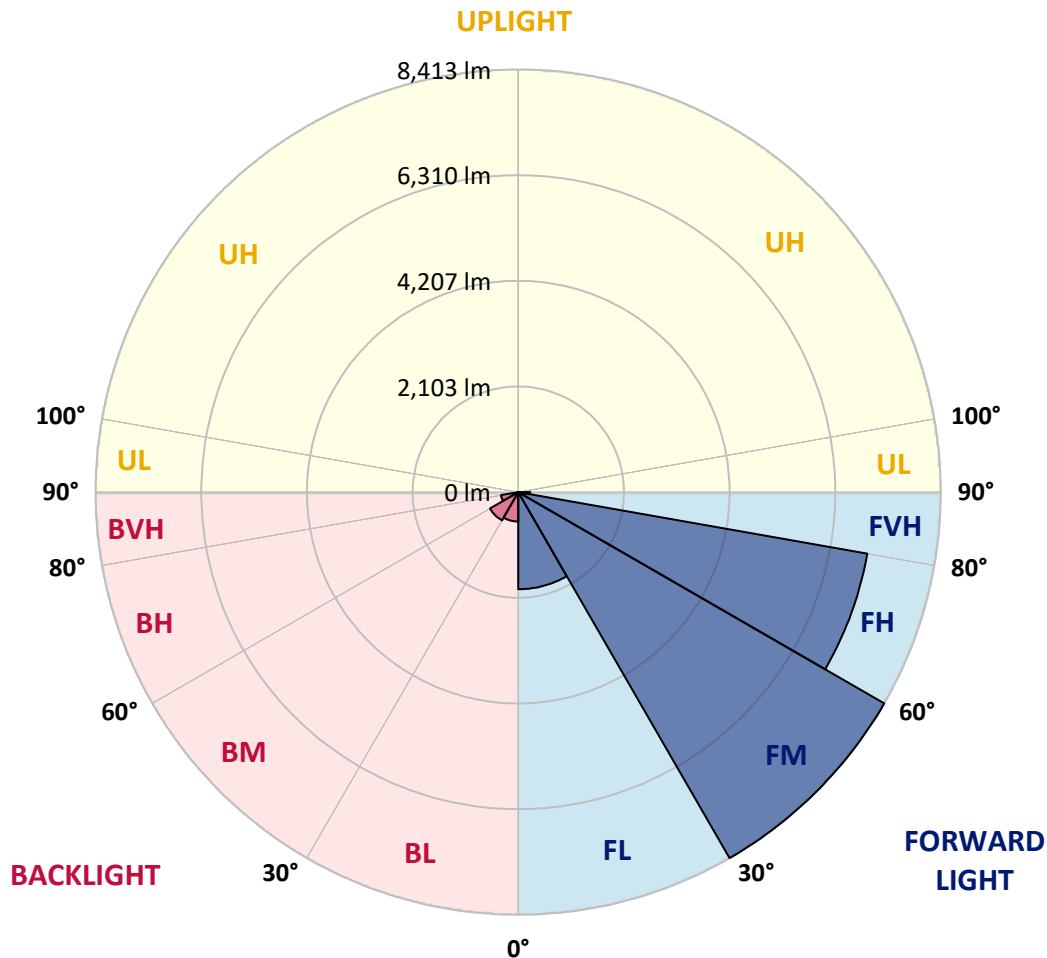
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1932.6	10.1			
FM (30°-60°)	8413.0	43.8			
FH (60°-80°)	7055.0	36.7			G3/7500
FVH (80°-90°)	234.9	1.2			G3/500
BL (0°-30°)	585.2	3.0	B2/1000		
BM (30°-60°)	650.5	3.4	B1/1000		
BH (60°-80°)	349.4	1.8	B1/500		G1/500
BVH (80°-90°)	3.9	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°	5446.6	5446.6	5446.6	5446.6	5446.6	5446.6	5446.6	5446.6	5446.6	5446.6	5446.6
2.5°	5926.4	5946.8	5964.7	5931.5	5959.6	5918.7	5814.1	5791.1	5773.3	5617.6	5528.2
5°	5923.8	5900.9	5918.7	5934.1	5895.8	5926.4	5900.9	5903.4	5834.5	5694.1	5444.0
7.5°	5528.2	5518.0	5528.2	5602.3	5686.5	5752.8	5791.1	5829.4	5783.5	5574.2	5331.7
10°	4994.8	5045.9	5073.9	5206.7	5336.8	5459.3	5579.3	5650.7	5638.0	5553.8	5209.2
12.5°	4622.2	4606.9	4709.0	4795.7	4925.9	5173.5	5382.8	5449.1	5525.7	5408.3	5048.4
15°	4277.6	4236.8	4298.0	4448.6	4670.7	4867.2	5160.7	5260.2	5357.2	5387.9	4961.6
17.5°	3948.4	3968.8	4032.6	4167.9	4377.2	4652.8	4928.5	5071.4	5303.6	5262.8	4831.5
20°	3790.1	3833.5	3856.5	3925.4	4070.9	4346.5	4757.4	4872.3	5119.9	5260.2	4703.9
22.5°	3797.8	3797.8	3744.2	3785.0	3917.7	4132.1	4525.2	4652.8	5045.9	5127.5	4589.0
25°	3879.5	3828.4	3831.0	3782.5	3838.6	3956.0	4315.9	4471.6	4895.3	5140.3	4527.7
27.5°	3940.7	3930.5	3915.2	3902.4	3831.0	3848.8	4178.1	4305.7	4836.6	5125.0	4433.3
30°	4162.8	4116.8	4101.5	4073.4	3979.0	3892.2	4068.3	4229.1	4790.6	5160.7	4379.7
32.5°	4349.1	4356.7	4369.5	4287.8	4206.2	3991.8	4099.0	4226.6	4757.4	5242.4	4433.3
35°	4583.9	4617.1	4622.2	4596.7	4509.9	4298.0	4226.6	4336.3	4813.6	5387.9	4438.4
37.5°	4941.2	4905.5	5002.5	5012.7	4951.4	4670.7	4522.6	4566.0	4979.5	5620.1	4632.4
40°	5173.5	5216.9	5398.1	5510.4	5405.7	5150.5	4951.4	4943.8	5219.4	5985.1	4872.3
42.5°	5431.3	5528.2	5727.3	5969.8	5957.0	5719.7	5518.0	5484.8	5645.6	6513.4	5252.6
45°	5783.5	5870.2	6148.4	6513.4	6712.5	6510.9	6207.1	6140.8	6163.8	7233.2	5900.9
47.5°	6367.9	6345.0	6745.7	7105.5	7432.2	7276.5	7146.4	6952.4	6934.5	8080.5	6796.7
50°	7029.0	7023.9	7381.2	7789.6	8167.3	8471.0	8254.1	8042.2	8047.3	9231.6	7850.8
52.5°	7656.8	7756.4	8141.8	8547.6	9195.9	9522.6	9731.8	9647.6	9241.8	10260.2	8978.9
55°	7988.6	8075.4	8458.3	9157.6	10181.0	11020.7	11587.4	11515.9	10732.3	11418.9	10091.7
57.5°	7674.7	7733.4	8251.5	9167.8	10870.2	12743.5	13287.2	13197.8	12273.9	12304.5	11436.8
60°	6360.3	6452.2	7223.0	8297.5	10602.2	14070.7	15627.6	15492.3	13677.7	13425.0	12302.0
62.5°	4405.2	4466.5	5099.5	6436.8	9331.1	14532.7	17837.9	17911.9	15158.0	14297.9	12559.8
65°	2853.4	2848.3	3210.8	4116.8	6613.0	13134.0	19144.7	19604.1	16587.3	14430.6	12480.6
67°	2016.3	2008.6	2179.6	2792.2	4578.8	10821.7	19121.7	20109.4	17363.2	14468.9	11748.1
67.5°	1860.6	1853.0	2016.3	2567.6	4132.1	10063.6	18835.8	19849.1	17636.3	14415.3	11426.6
70°	1444.6	1424.2	1485.4	1768.7	2406.8	6508.3	16120.2	18233.5	17069.6	13077.9	9124.4
72.5°	1043.9	1066.9	1163.8	1452.2	1888.7	3501.7	12286.7	14744.5	14257.0	9856.9	5798.8
75°	727.4	747.8	903.5	1184.3	1733.0	2123.5	8307.7	10694.1	9930.9	5441.5	2470.6
77.5°	380.3	405.8	576.8	946.9	1574.8	1643.7	4964.2	6781.4	5262.8	1937.2	681.5
80°	176.1	188.9	288.4	671.2	1317.0	1444.6	2894.3	3772.3	2105.6	433.9	234.8
82.5°	76.6	84.2	132.7	385.4	934.1	1263.4	1791.7	1978.0	763.1	140.4	145.5
85°	15.3	17.9	51.0	204.2	451.8	765.7	1258.3	1174.0	382.8	68.9	114.9
87.5°	0.0	0.0	12.8	58.7	122.5	227.2	533.4	533.4	117.4	35.7	43.4
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°	5446.6	5446.6	5446.6	5446.6	5446.6	5446.6	5446.6	5446.6	5446.6	5446.6	5446.6
2.5°	5449.1	5357.2	5155.6	4969.3	4836.6	4686.0	4486.9	4397.6	4364.4	4318.5	4249.5
5°	5306.2	5193.9	4849.3	4502.2	4121.9	3833.5	3527.3	3348.6	3213.3	3129.1	3101.0
7.5°	5104.6	4874.9	4410.3	3853.9	3361.4	2932.6	2468.1	2154.1	1952.5	1870.8	1794.3
10°	4943.8	4645.1	3938.2	3246.5	2590.6	1962.7	1439.5	1163.8	954.6	875.4	865.2
12.5°	4734.5	4377.2	3496.6	2626.3	1801.9	1168.9	796.3	691.7	633.0	622.8	615.1
15°	4560.9	4134.7	3078.0	2034.2	1166.4	730.0	620.2	594.7	579.4	574.3	576.8
17.5°	4443.5	3874.4	2649.3	1480.3	768.2	597.2	571.7	556.4	548.7	546.2	538.5
20°	4211.3	3654.9	2225.6	1036.2	599.8	551.3	530.9	518.1	510.5	507.9	505.4
22.5°	4078.5	3376.7	1801.9	722.3	533.4	500.2	484.9	474.7	462.0	454.3	451.8
25°	3945.8	3172.5	1424.2	561.5	484.9	462.0	439.0	426.2	405.8	395.6	393.1
27.5°	3790.1	2970.9	1097.5	487.5	436.4	413.5	390.5	370.1	344.6	334.3	329.2
30°	3700.8	2774.3	826.9	436.4	400.7	370.1	342.0	316.5	288.4	270.5	265.4
32.5°	3654.9	2595.7	620.2	398.2	362.4	329.2	293.5	262.9	237.4	222.0	219.5
35°	3598.7	2422.1	487.5	362.4	326.7	291.0	255.2	224.6	199.1	186.3	181.2
37.5°	3657.4	2320.0	405.8	334.3	298.6	257.8	219.5	188.9	168.5	155.7	153.1
40°	3818.2	2235.8	352.2	308.8	270.5	227.2	191.4	160.8	142.9	132.7	127.6
42.5°	4065.8	2235.8	319.0	283.3	245.0	199.1	163.3	140.4	122.5	112.3	109.7
45°	4515.0	2304.7	291.0	257.8	214.4	171.0	140.4	117.4	99.5	89.3	86.8
47.5°	5145.4	2462.9	268.0	234.8	191.4	150.6	122.5	99.5	81.7	71.5	68.9
50°	5992.8	2822.8	245.0	206.7	171.0	130.2	102.1	79.1	63.8	53.6	51.0
52.5°	7049.4	3333.3	222.0	191.4	145.5	109.7	81.7	63.8	48.5	40.8	38.3
55°	8167.3	3958.6	194.0	171.0	125.1	91.9	66.4	48.5	35.7	30.6	28.1
57.5°	9292.9	4441.0	171.0	148.0	102.1	74.0	53.6	38.3	25.5	20.4	17.9
60°	9890.1	4486.9	148.0	122.5	81.7	58.7	40.8	28.1	17.9	12.8	10.2
62.5°	9982.0	4078.5	127.6	99.5	66.4	45.9	28.1	20.4	10.2	5.1	5.1
65°	9509.8	3399.6	109.7	79.1	51.0	33.2	20.4	12.8	5.1	2.6	0.0
67°	8744.1	2848.3	94.4	66.4	40.8	25.5	15.3	7.7	2.6	0.0	0.0
67.5°	8448.0	2695.2	89.3	61.3	38.3	23.0	12.8	7.7	2.6	0.0	0.0
70°	6556.8	1924.4	66.4	43.4	28.1	17.9	10.2	5.1	0.0	0.0	0.0
72.5°	4017.3	1125.6	51.0	30.6	20.4	12.8	7.7	2.6	0.0	0.0	0.0
75°	1684.5	387.9	43.4	23.0	15.3	7.7	5.1	2.6	0.0	0.0	0.0
77.5°	439.0	145.5	30.6	15.3	10.2	7.7	5.1	2.6	0.0	0.0	0.0
80°	178.7	66.4	20.4	10.2	10.2	7.7	5.1	2.6	0.0	0.0	0.0
82.5°	117.4	30.6	12.8	10.2	7.7	5.1	2.6	0.0	0.0	0.0	0.0
85°	89.3	17.9	7.7	7.7	5.1	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	38.3	10.2	7.7	5.1	5.1	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)