

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: P483609

Luminaire Tested: **IFLD-L-SA8C-735-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483609
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-735-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

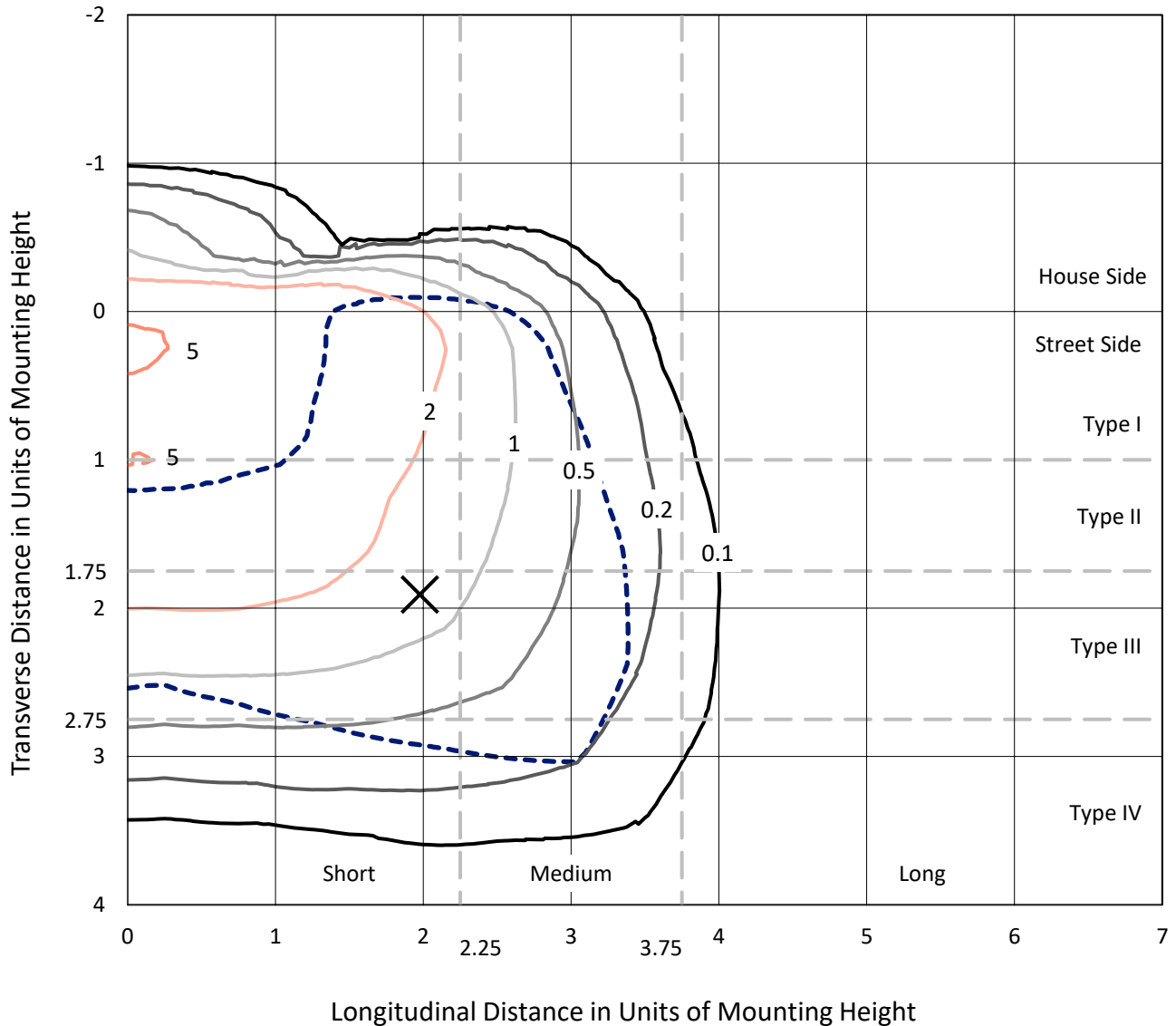
Lumens per Lamp: N/A
Luminaire Lumens: 36869.5 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 420.3
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

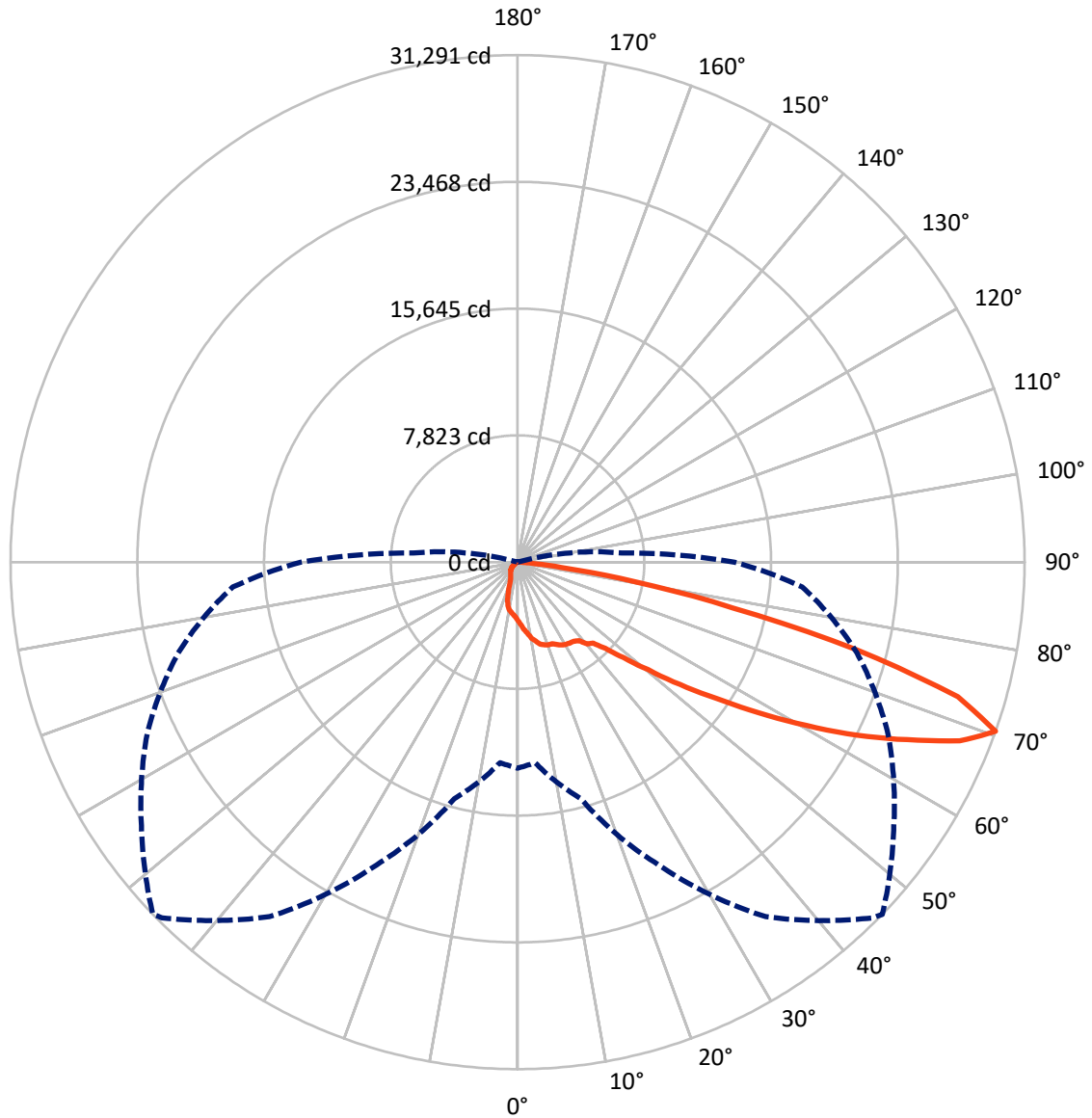
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3668.6	0.0	3668.6
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	33200.9	0.0	33200.9
	% Fixture	90.0	0.0	90.0
Total	Lumens	36869.5	0.0	36869.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.9	1.0
10°-20°	1089.9	3.0
20°-30°	1745.8	4.7
30°-40°	2491.8	6.8
40°-50°	4302.7	11.7
50°-60°	8238.0	22.3
60°-70°	12199.1	33.1
70°-80°	6042.1	16.4
80°-90°	399.2	1.1
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°	36869.5	100.0
0°-180°	36869.5	100.0

Coefficient of Utilization

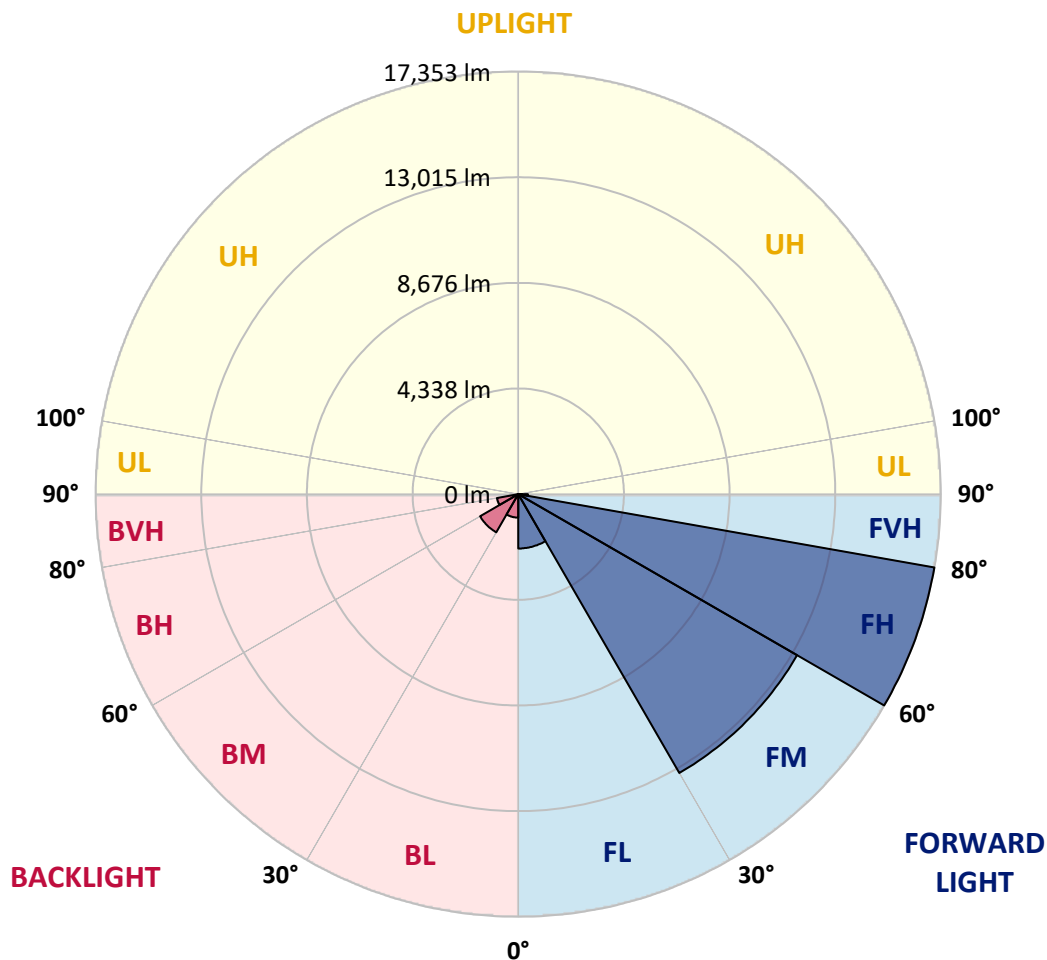


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2232.7	6.1			
FM (30°-60°)	13221.3	35.9			
FH (60°-80°)	17352.7	47.1			G5
FVH (80°-90°)	394.2	1.1			G3/500
BL (0°-30°)	963.8	2.6	B2/1000		
BM (30°-60°)	1811.2	4.9	B2/2500		
BH (60°-80°)	888.5	2.4	B2/1000		G2/1000
BVH (80°-90°)	5.1	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3619.4	3619.4	3619.4	3619.4	3619.4	3619.4	3619.4	3619.4	3619.4	3619.4	3619.4
2.5°	4038.7	4012.2	3969.7	3953.8	3911.3	3890.1	3858.3	3842.3	3784.0	3725.6	3688.4
5°	4532.3	4468.6	4489.8	4426.1	4288.1	4176.7	4171.4	4049.3	3916.6	3810.5	3667.2
7.5°	5031.1	4978.1	4898.5	4808.2	4654.3	4489.8	4442.0	4325.3	4139.5	3953.8	3762.7
10°	5407.9	5370.8	5301.8	5174.4	4962.1	4776.4	4781.7	4585.3	4389.0	4176.7	3916.6
12.5°	5641.4	5657.4	5556.5	5429.2	5243.4	5009.9	5004.6	4871.9	4649.0	4426.1	4118.3
15°	5875.0	5933.3	5779.4	5630.8	5392.0	5222.2	5254.0	5094.8	4877.2	4622.5	4282.8
17.5°	5912.1	5928.0	5896.2	5678.6	5503.5	5360.2	5365.5	5259.3	5094.8	4818.8	4527.0
20°	5848.4	5837.8	5800.7	5641.4	5524.7	5439.8	5445.1	5418.5	5328.3	5105.4	4707.4
22.5°	5662.7	5662.7	5614.9	5508.8	5455.7	5535.3	5471.6	5572.5	5476.9	5344.3	5015.2
25°	5514.1	5572.5	5545.9	5476.9	5498.2	5604.3	5636.1	5731.7	5715.7	5551.2	5227.5
27.5°	5673.3	5604.3	5620.2	5540.6	5620.2	5779.4	5795.4	5864.3	5859.0	5726.4	5418.5
30°	5779.4	5843.1	5721.1	5545.9	5630.8	5901.5	5890.9	5981.1	6023.6	5864.3	5599.0
32.5°	6119.1	6066.0	5965.2	5731.7	5742.3	5896.2	5944.0	6060.7	6087.2	5991.7	5774.1
35°	6814.3	6734.7	6294.2	5944.0	5890.9	5965.2	5997.0	6225.2	6273.0	6166.9	5959.9
37.5°	7886.4	7705.9	7175.2	6400.4	6161.5	6145.6	6145.6	6448.1	6628.6	6384.4	6235.8
40°	9420.1	9165.4	8592.2	7244.2	6517.1	6580.8	6644.5	6809.0	6787.8	6628.6	6596.7
42.5°	11373.1	11176.8	10555.8	8661.2	7196.4	6878.0	6824.9	7047.8	7382.2	7318.5	7297.3
45°	13002.4	13013.0	12615.0	10603.6	8369.3	7562.6	7599.8	7769.6	8332.1	8284.4	8279.1
47.5°	14191.2	14042.6	13984.2	12477.0	10078.2	8862.9	8809.8	8926.5	9658.9	9961.4	10099.4
50°	15273.8	15173.0	15035.0	14297.3	12132.0	10492.1	10439.1	10449.7	11569.5	11994.0	12333.7
52.5°	16616.5	16743.9	16287.5	15836.4	14790.9	12609.7	12551.3	12344.3	13734.8	14318.6	14721.9
55°	18272.3	18033.5	17518.7	17752.3	17333.0	14897.0	14790.9	14546.8	16202.6	16446.7	16871.3
57.5°	18638.5	18458.1	18988.8	19816.7	20220.1	17582.4	17540.0	17099.5	18277.7	18054.8	19254.2
60°	19551.4	19599.1	20336.8	21982.0	22682.5	20681.8	20474.8	19700.0	20289.0	20331.5	21610.5
62.5°	20490.7	20379.3	22029.8	23611.3	24688.6	23616.6	23547.6	22008.5	22677.2	22135.9	23828.9
65°	19800.8	19970.6	22332.3	24980.5	27289.1	26487.7	26429.4	24232.2	24598.4	23924.4	24731.1
67.5°	17348.9	17004.0	20310.3	24354.3	28626.5	29496.9	29433.2	26657.6	25681.1	23913.8	22857.7
70°	12715.8	12418.6	15114.6	20623.4	26710.6	31035.9	31290.7	28345.2	25240.6	21684.8	17635.5
72.5°	6230.5	6235.8	8470.1	13984.2	21132.9	28286.8	28414.2	25988.9	21684.8	15985.0	9988.0
75°	1841.6	1862.8	3136.5	6856.8	13660.5	21483.1	21626.4	19726.5	15029.7	8257.8	3407.2
77.5°	674.0	674.0	1040.2	2573.9	6814.3	13559.6	13549.0	12110.8	7610.4	2796.8	796.1
80°	350.3	366.2	541.3	1050.8	2950.7	7063.8	7329.1	5928.0	2892.4	1178.2	233.5
82.5°	143.3	159.2	297.2	541.3	1417.0	2478.4	2711.9	2324.5	1257.8	822.6	106.1
85°	42.5	47.8	143.3	302.5	557.2	620.9	689.9	780.1	790.8	636.9	47.8
87.5°	5.3	5.3	58.4	100.8	122.1	132.7	153.9	153.9	403.3	445.8	26.5
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°	3619.4	3619.4	3619.4	3619.4	3619.4	3619.4	3619.4	3619.4	3619.4	3619.4	3619.4
2.5°	3646.0	3619.4	3577.0	3481.5	3460.2	3391.2	3385.9	3322.2	3343.5	3301.0	3285.1
5°	3619.4	3561.1	3444.3	3370.0	3295.7	3247.9	3216.1	3189.6	3184.3	3163.0	3152.4
7.5°	3667.2	3587.6	3407.2	3290.4	3163.0	3120.6	3051.6	3046.3	3009.1	2972.0	2972.0
10°	3826.4	3683.1	3486.8	3290.4	3125.9	2987.9	2828.7	2711.9	2669.5	2573.9	2584.6
12.5°	3953.8	3826.4	3539.8	3338.2	3088.7	2775.6	2425.3	2154.7	2027.3	1905.2	1953.0
15°	4134.2	3948.5	3640.7	3348.8	2945.4	2404.1	1830.9	1528.4	1411.7	1385.2	1379.8
17.5°	4330.6	4134.2	3768.0	3322.2	2653.6	1857.5	1348.0	1172.9	1194.1	1225.9	1220.6
20°	4548.2	4309.4	3863.6	3232.0	2191.8	1348.0	1103.9	1098.6	1130.4	1178.2	1188.8
22.5°	4776.4	4569.4	3980.3	2961.4	1634.6	1082.6	1061.4	1061.4	1082.6	1141.0	1130.4
25°	5031.1	4755.2	4038.7	2542.1	1172.9	997.7	1008.3	1029.6	1040.2	1088.0	1093.3
27.5°	5227.5	4962.1	4054.6	2037.9	955.3	923.4	950.0	976.5	992.4	1029.6	1045.5
30°	5407.9	5222.2	3969.7	1517.8	875.7	859.8	870.4	907.5	939.4	971.2	971.2
32.5°	5636.1	5370.8	3773.3	1077.3	827.9	801.4	796.1	812.0	849.1	886.3	886.3
35°	5869.7	5620.2	3460.2	865.1	785.5	748.3	727.1	711.2	727.1	753.6	774.8
37.5°	6209.3	5997.0	3067.5	796.1	753.6	700.5	658.1	620.9	594.4	589.1	605.0
40°	6692.3	6421.6	2563.3	748.3	716.5	652.8	589.1	525.4	467.0	429.9	435.2
42.5°	7424.6	7047.8	2016.7	721.8	689.9	599.7	509.5	419.3	345.0	307.8	307.8
45°	8470.1	7875.7	1480.7	695.2	658.1	536.0	419.3	313.1	238.8	217.6	222.9
47.5°	10046.3	8873.5	1061.4	652.8	615.6	467.0	329.0	222.9	175.1	164.5	169.8
50°	12105.5	10057.0	827.9	605.0	562.6	392.7	244.1	164.5	138.0	132.7	138.0
52.5°	14265.5	11251.1	727.1	562.6	482.9	313.1	180.4	132.7	116.8	111.4	116.8
55°	16112.4	12020.6	631.5	498.9	387.4	233.5	143.3	116.8	100.8	84.9	84.9
57.5°	17980.5	12408.0	498.9	414.0	286.6	175.1	122.1	100.8	84.9	69.0	63.7
60°	19498.3	12684.0	355.6	307.8	201.7	138.0	106.1	90.2	69.0	53.1	47.8
62.5°	20496.0	11893.2	260.0	233.5	148.6	116.8	90.2	74.3	53.1	37.1	37.1
65°	20002.5	10799.9	201.7	164.5	111.4	90.2	74.3	53.1	37.1	21.2	15.9
67.5°	17948.6	8799.2	164.5	122.1	84.9	69.0	58.4	42.5	21.2	5.3	5.3
70°	13389.8	6448.1	132.7	90.2	69.0	53.1	42.5	26.5	10.6	5.3	0.0
72.5°	7323.8	3529.2	106.1	74.3	53.1	42.5	31.8	21.2	10.6	0.0	0.0
75°	2420.0	939.4	79.6	53.1	31.8	26.5	21.2	15.9	5.3	0.0	0.0
77.5°	583.8	244.1	63.7	47.8	26.5	15.9	10.6	5.3	5.3	0.0	0.0
80°	180.4	100.8	47.8	31.8	21.2	15.9	5.3	0.0	0.0	0.0	0.0
82.5°	74.3	47.8	21.2	21.2	15.9	5.3	0.0	0.0	0.0	0.0	0.0
85°	37.1	26.5	15.9	10.6	10.6	5.3	0.0	0.0	0.0	0.0	0.0
87.5°	26.5	10.6	5.3	5.3	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)