

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: P483332

Luminaire Tested: **IFLD-L-SA7D-760-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483332
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-760-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

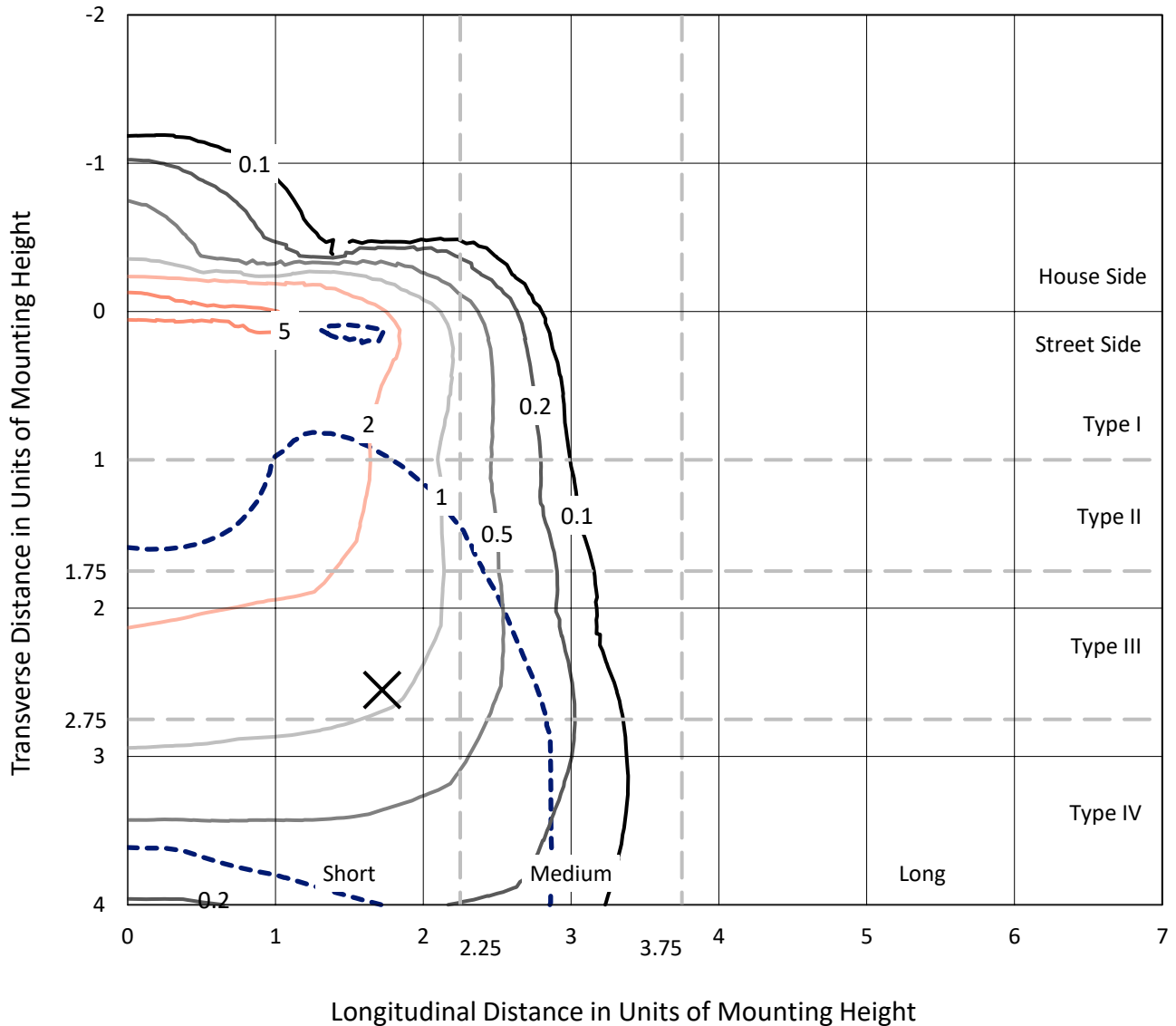
Lumens per Lamp: N/A
Luminaire Lumens: 36079.3 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6
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

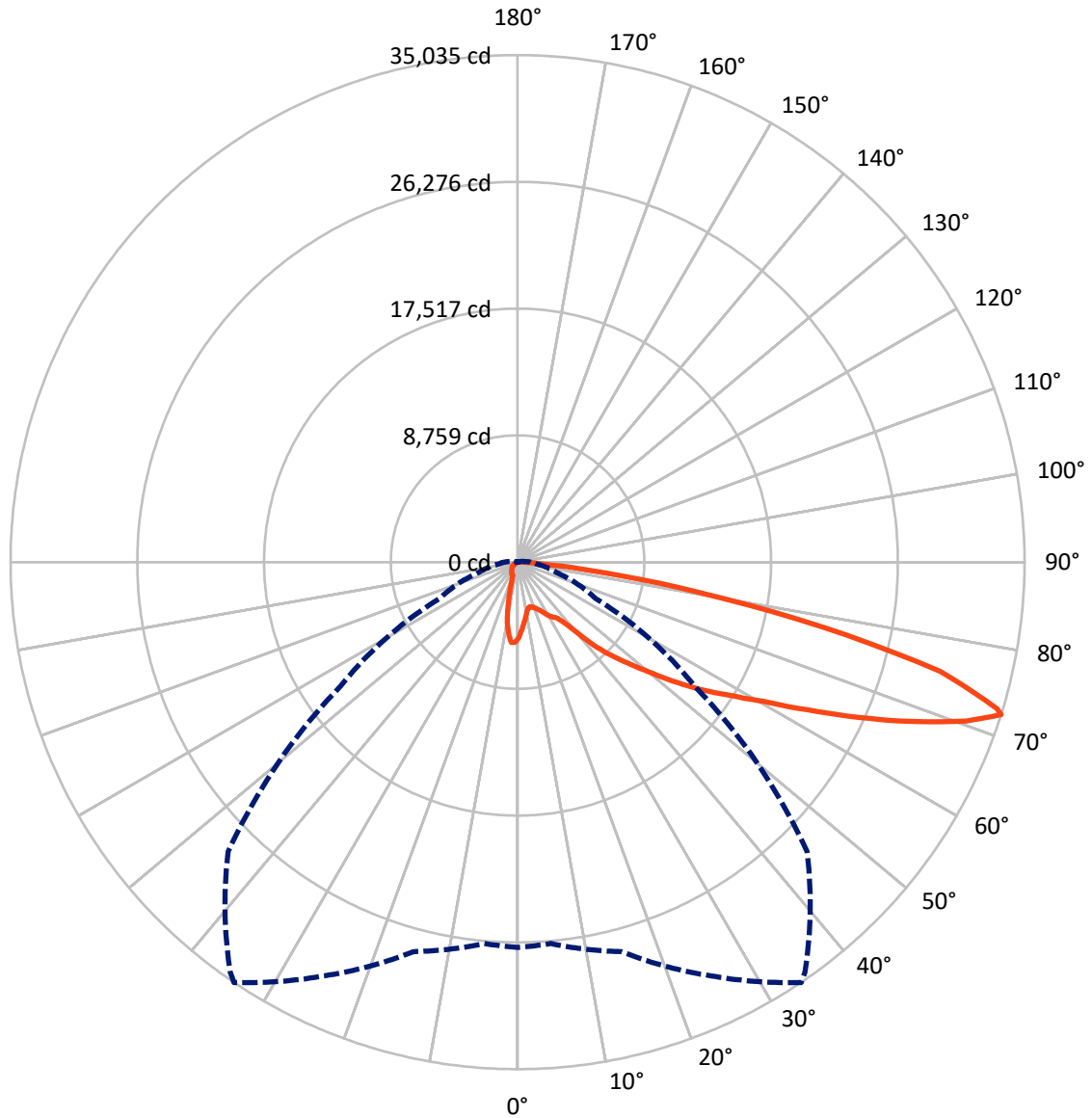
× Max cd
 - - - 1/2 Max cd



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 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3693.7	0.0	3693.7
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	32385.6	0.0	32385.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	36079.3	0.0	36079.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.2	1.3
10°-20°	1037.4	2.9
20°-30°	1565.8	4.3
30°-40°	2541.0	7.0
40°-50°	4778.3	13.2
50°-60°	7812.6	21.7
60°-70°	10385.7	28.8
70°-80°	6955.2	19.3
80°-90°	545.0	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°	36079.3	100.0
0°-180°	36079.3	100.0



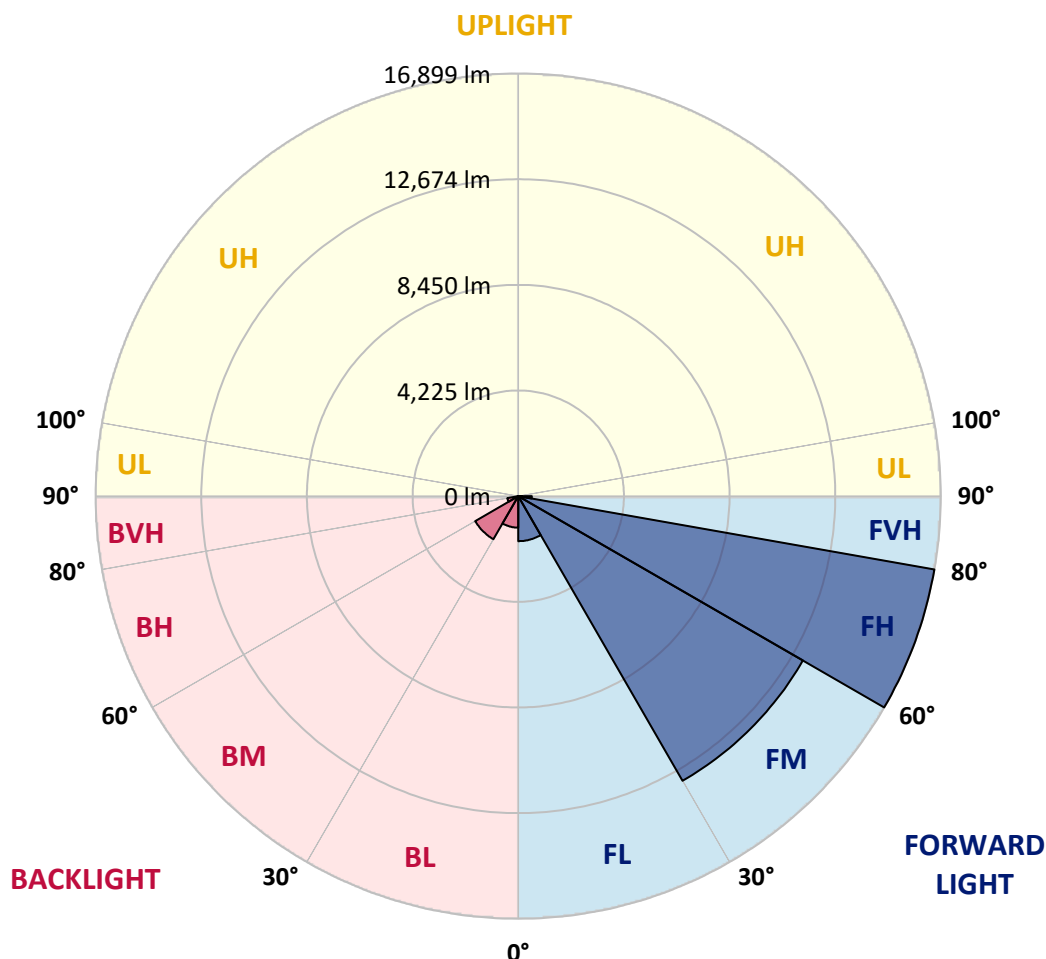
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1801.1	5.0			
FM (30°-60°)	13143.6	36.4			
FH (60°-80°)	16899.2	46.8			G5
FVH (80°-90°)	541.6	1.5			G4/750
BL (0°-30°)	1260.3	3.5	B3/2500		
BM (30°-60°)	1988.3	5.5	B2/2500		
BH (60°-80°)	441.7	1.2	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5278.4	5278.4	5278.4	5278.4	5278.4	5278.4	5278.4	5278.4	5278.4	5278.4	5278.4
2.5°	4668.2	4657.7	4689.0	4741.2	4793.4	4772.5	4871.6	4975.9	5048.9	5148.0	5268.0
5°	4078.8	4104.9	4136.2	4240.5	4308.3	4323.9	4506.5	4642.1	4866.4	5095.9	5309.7
7.5°	3541.6	3572.8	3635.4	3750.2	3891.0	3927.5	4110.1	4381.3	4673.4	4975.9	5325.4
10°	3150.4	3181.7	3249.5	3322.5	3510.3	3510.3	3760.6	4136.2	4516.9	4871.6	5330.6
12.5°	3066.9	3082.6	3077.3	3134.7	3254.7	3280.8	3525.9	3938.0	4381.3	4835.1	5414.0
15°	3166.0	3176.4	3124.3	3093.0	3197.3	3223.4	3452.9	3818.0	4292.6	4855.9	5549.6
17.5°	3364.2	3327.7	3223.4	3176.4	3265.1	3280.8	3494.6	3812.8	4282.2	4913.3	5706.1
20°	3479.0	3520.7	3338.1	3249.5	3374.6	3395.5	3625.0	3896.2	4334.4	5012.4	5925.2
22.5°	3682.4	3703.2	3458.1	3400.7	3520.7	3520.7	3781.5	4063.1	4459.5	5174.1	6186.0
25°	3969.2	3943.2	3656.3	3598.9	3713.7	3760.6	4021.4	4329.1	4652.5	5325.4	6425.9
27.5°	4193.5	4209.2	3974.5	3823.2	4016.2	4047.5	4329.1	4616.0	4798.6	5450.5	6718.0
30°	4527.3	4496.0	4245.7	4073.6	4313.5	4318.7	4589.9	4887.2	5080.2	5674.8	7156.1
32.5°	4923.7	4861.2	4574.3	4329.1	4522.1	4569.1	4845.5	5278.4	5518.4	6097.3	7834.2
35°	5763.5	5612.2	5142.8	4762.1	4777.7	4798.6	5226.3	5847.0	6123.4	6634.5	8741.7
37.5°	6989.2	6926.6	6394.6	5669.6	5393.2	5330.6	5810.4	6598.0	6942.3	7343.9	9920.5
40°	8204.5	8115.8	7620.3	7072.7	6572.0	6446.8	6686.7	7594.3	7907.2	8329.7	11130.6
42.5°	9555.4	9398.9	8814.8	8371.4	8058.5	7922.9	7829.0	8846.1	9200.7	9487.6	12314.6
45°	10922.0	10666.4	9821.4	9482.4	9315.5	9242.5	9232.0	10421.2	10635.1	10692.5	13629.0
47.5°	12121.6	11845.2	11078.4	10697.7	10572.5	10551.6	11135.8	12236.3	12069.4	11918.2	15094.6
50°	13044.8	12867.5	12314.6	12179.0	12085.1	12048.6	13415.1	14103.6	13331.7	13065.7	16382.9
52.5°	14473.9	14077.5	13451.6	13498.6	13827.2	13832.4	15725.7	15877.0	14380.1	13853.3	17598.2
55°	15616.2	15355.4	14844.3	14776.5	15642.3	15736.2	17796.4	17222.7	14964.2	14604.3	18046.8
57.5°	16961.9	16841.9	16471.6	16482.0	17389.6	17587.8	19637.6	18359.7	15449.3	15089.4	18114.6
60°	18907.4	18563.2	18370.2	18458.8	19528.1	19721.1	21421.4	19178.6	15684.0	15407.6	17947.7
62.5°	21056.3	20654.7	20446.1	20899.8	22459.4	22490.7	22777.5	19903.6	15538.0	15491.0	16873.2
65°	23643.4	23247.0	23080.1	23992.8	25844.5	25729.7	24681.3	20211.4	15073.8	14651.3	14051.5
67.5°	26220.0	25980.1	25635.8	27091.0	29396.4	29396.4	26658.1	20096.6	13858.5	11761.7	9190.3
70°	27440.5	27607.4	28155.1	30439.6	32885.8	32635.5	28608.9	18777.0	10316.9	6316.4	3614.6
72°	26626.8	26454.7	27868.2	31534.9	35034.8	34622.7	28280.3	14927.7	5961.7	2769.6	1257.0
72.5°	25229.0	25390.7	27336.2	31383.7	34633.1	34972.2	27477.0	13769.8	4902.9	2206.3	949.3
75°	15470.2	15746.6	20404.3	26647.7	30178.8	29798.1	21254.5	6561.5	1882.9	938.9	339.0
77.5°	5648.7	5878.2	9899.7	16768.9	21463.2	21223.2	12298.9	2331.5	1022.3	698.9	172.1
80°	1470.9	1590.8	3364.2	7735.1	12622.3	12638.0	5148.0	933.6	693.7	573.7	104.3
82.5°	292.1	323.4	1032.7	3009.5	5899.1	5820.9	1627.3	500.7	521.6	469.4	73.0
85°	36.5	46.9	219.1	1022.3	1909.0	1710.8	401.6	250.4	386.0	365.1	46.9
87.5°	5.2	5.2	52.2	234.7	401.6	391.2	83.5	78.2	172.1	224.3	26.1
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°	5278.4	5278.4	5278.4	5278.4	5278.4	5278.4	5278.4	5278.4	5278.4	5278.4	5278.4
2.5°	5335.8	5356.7	5429.7	5492.3	5565.3	5586.2	5554.9	5607.0	5534.0	5575.7	5586.2
5°	5346.2	5466.2	5601.8	5690.5	5669.6	5617.5	5575.7	5434.9	5335.8	5299.3	5377.5
7.5°	5419.3	5554.9	5700.9	5700.9	5586.2	5314.9	5054.1	4803.8	4595.2	4490.8	4579.5
10°	5513.1	5654.0	5805.2	5607.0	5179.3	4683.8	4313.5	3844.1	3525.9	3359.0	3374.6
12.5°	5638.3	5836.5	5888.7	5429.7	4720.3	3984.9	3312.1	2660.1	2357.6	2117.6	2122.8
15°	5800.0	5993.0	5836.5	5043.7	4136.2	3051.3	2242.8	1622.1	1382.2	1257.0	1257.0
17.5°	6013.9	6159.9	5820.9	4689.0	3348.6	2086.3	1377.0	1095.3	1043.2	1022.3	1022.3
20°	6264.2	6373.7	5669.6	4136.2	2488.0	1340.5	1011.9	980.6	985.8	975.4	975.4
22.5°	6545.9	6582.4	5497.5	3494.6	1684.7	991.0	944.1	949.3	954.5	944.1	949.3
25°	6843.2	6744.1	5247.1	2743.5	1121.4	902.3	912.8	923.2	928.4	933.6	933.6
27.5°	7177.0	6978.8	4897.7	2008.1	876.3	850.2	881.5	912.8	918.0	918.0	912.8
30°	7667.3	7338.7	4558.6	1361.3	771.9	792.8	845.0	881.5	907.6	907.6	902.3
32.5°	8288.0	7714.2	4084.0	928.4	714.6	725.0	766.7	839.7	897.1	902.3	886.7
35°	9148.6	8168.0	3588.5	740.6	672.8	678.1	704.1	761.5	860.6	891.9	886.7
37.5°	10056.1	8684.4	2973.0	667.6	641.5	636.3	652.0	698.9	787.6	865.8	871.0
40°	11021.1	9226.8	2326.3	631.1	615.5	605.0	610.3	631.1	698.9	798.0	818.9
42.5°	11928.6	9717.1	1747.3	594.6	589.4	579.0	579.0	584.2	620.7	688.5	698.9
45°	12909.2	10118.7	1330.0	568.5	552.9	558.1	537.2	526.8	552.9	558.1	552.9
47.5°	13827.2	10520.3	1064.0	537.2	521.6	521.6	495.5	474.6	474.6	427.7	422.5
50°	14687.8	10739.4	850.2	495.5	490.3	485.1	448.6	412.1	380.8	323.4	313.0
52.5°	15402.4	10729.0	657.2	443.3	459.0	443.3	386.0	333.8	286.9	234.7	224.3
55°	15616.2	10228.3	495.5	365.1	391.2	370.3	307.7	260.8	208.6	166.9	161.7
57.5°	15433.7	9466.7	375.5	281.7	302.5	281.7	234.7	193.0	146.0	114.7	104.3
60°	14823.4	8574.8	292.1	219.1	229.5	213.8	177.3	146.0	104.3	73.0	62.6
62.5°	13665.5	7458.6	224.3	172.1	166.9	166.9	135.6	109.5	73.0	41.7	36.5
65°	11214.0	5815.7	172.1	120.0	120.0	120.0	104.3	78.2	46.9	20.9	10.4
67.5°	7041.4	3385.1	140.8	93.9	88.7	88.7	73.0	52.2	26.1	5.2	0.0
70°	2649.6	1241.4	109.5	73.0	67.8	67.8	52.2	31.3	15.6	0.0	0.0
72°	912.8	474.6	88.7	52.2	52.2	46.9	36.5	26.1	10.4	0.0	0.0
72.5°	751.1	380.8	83.5	52.2	46.9	46.9	36.5	26.1	10.4	0.0	0.0
75°	271.2	156.5	57.4	36.5	31.3	31.3	26.1	15.6	5.2	0.0	0.0
77.5°	135.6	99.1	46.9	31.3	26.1	15.6	15.6	10.4	5.2	0.0	0.0
80°	83.5	62.6	26.1	20.9	15.6	10.4	5.2	5.2	0.0	0.0	0.0
82.5°	57.4	36.5	15.6	15.6	10.4	5.2	0.0	0.0	0.0	0.0	0.0
85°	36.5	15.6	10.4	10.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.6	10.4	5.2	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)