

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: P483214

Luminaire Tested: **IFLD-L-SA7C-735-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483214
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-735-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

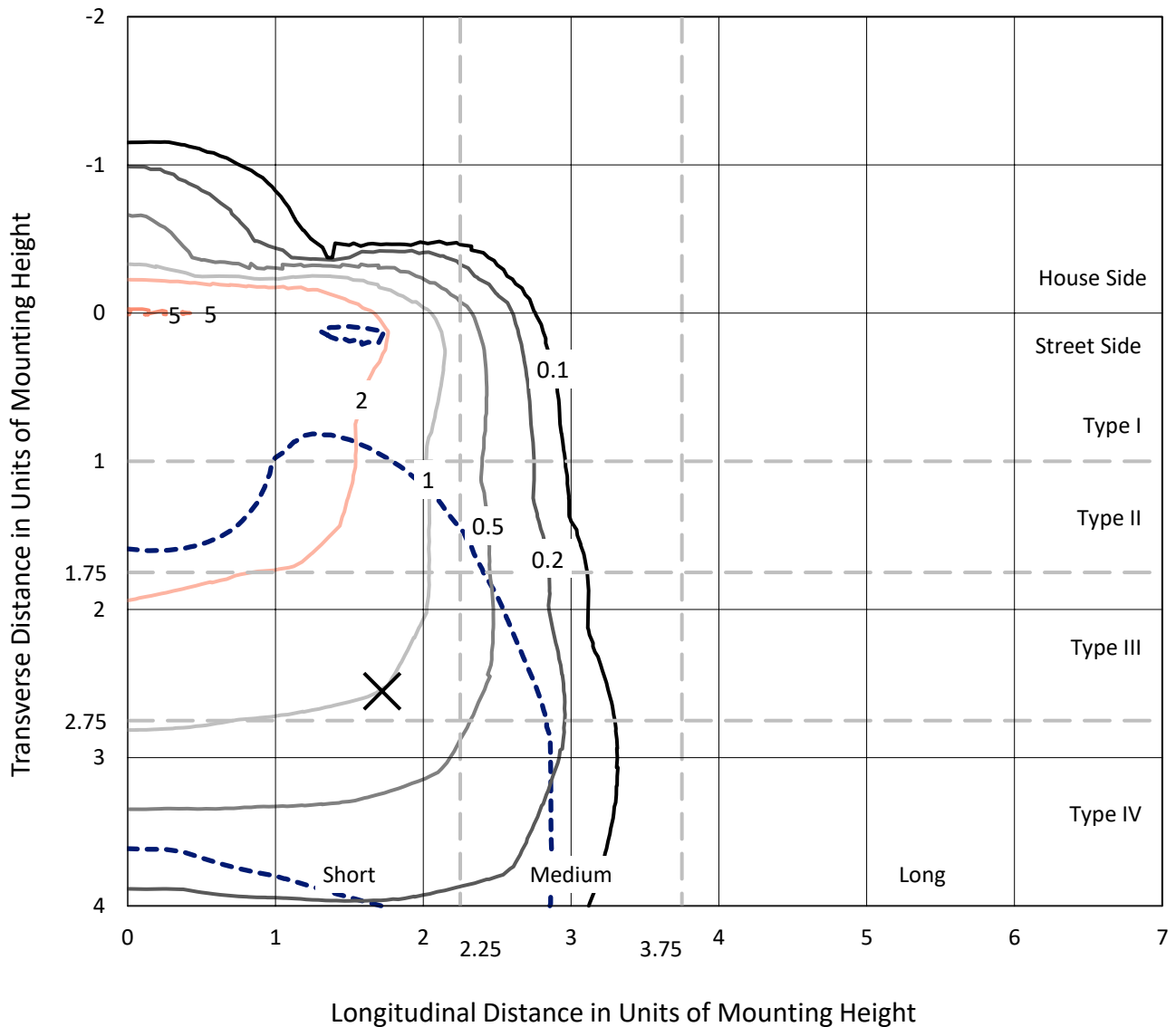
Lumens per Lamp: N/A
Luminaire Lumens: 31615.9 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 369
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

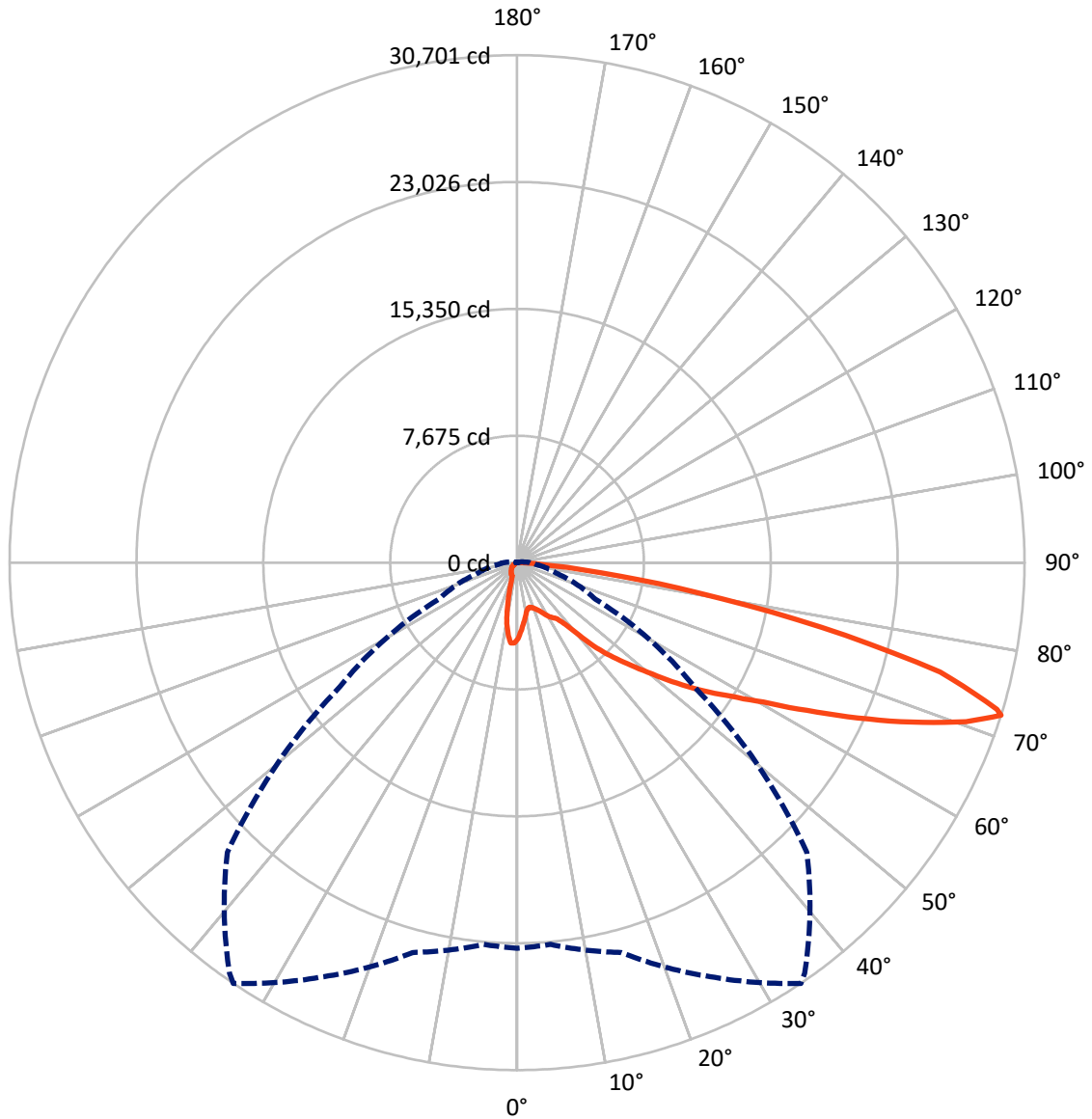
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 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	3236.7	0.0	3236.7
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	28379.2	0.0	28379.2
	% Fixture	89.8	0.0	89.8
Total	Lumens	31615.9	0.0	31615.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.5	1.3
10°-20°	909.1	2.9
20°-30°	1372.1	4.3
30°-40°	2226.7	7.0
40°-50°	4187.2	13.2
50°-60°	6846.1	21.7
60°-70°	9100.9	28.8
70°-80°	6094.8	19.3
80°-90°	477.6	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°	31615.9	100.0
0°-180°	31615.9	100.0

Coefficient of Utilization



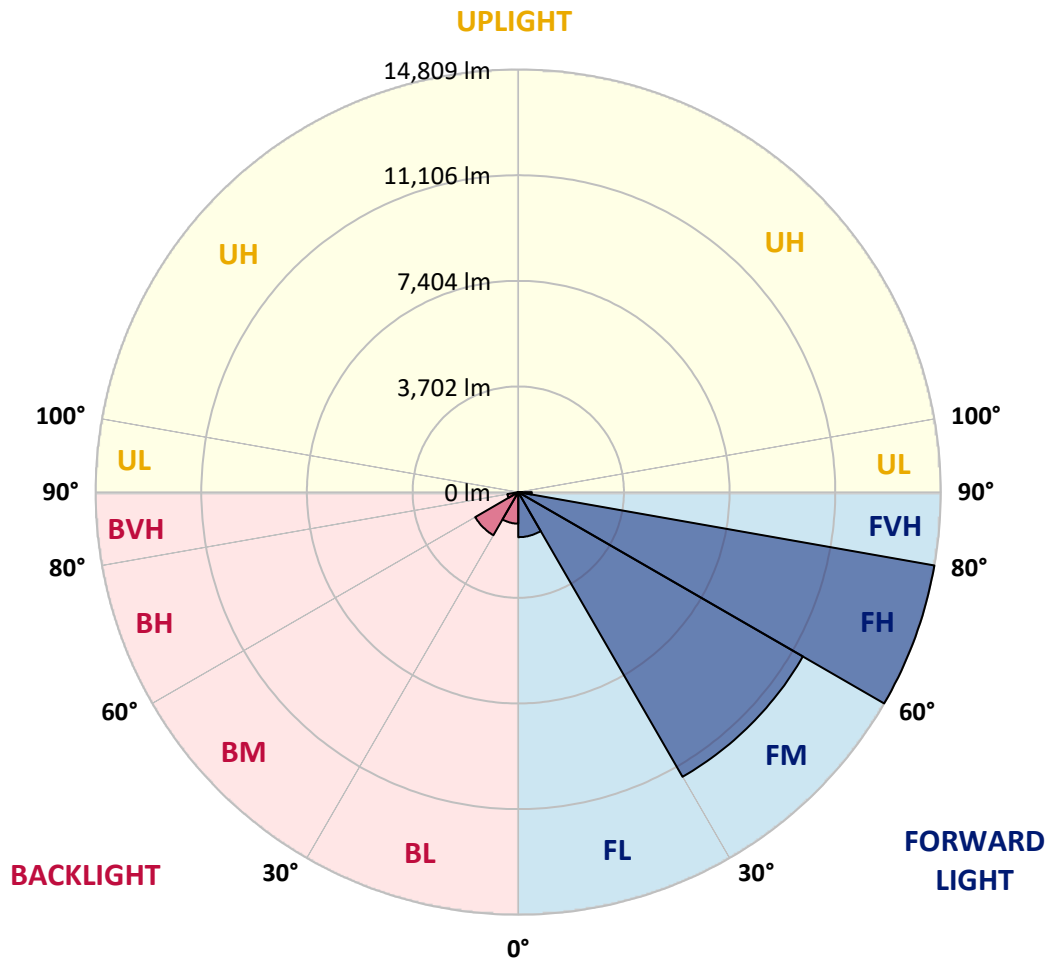
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1578.3	5.0			
FM (30°-60°)	11517.6	36.4			
FH (60°-80°)	14808.7	46.8			G5
FVH (80°-90°)	474.6	1.5			G3/500
BL (0°-30°)	1104.4	3.5	B3/2500		
BM (30°-60°)	1742.3	5.5	B2/2500		
BH (60°-80°)	387.0	1.2	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4625.4	4625.4	4625.4	4625.4	4625.4	4625.4	4625.4	4625.4	4625.4	4625.4	4625.4
2.5°	4090.7	4081.5	4109.0	4154.7	4200.4	4182.1	4268.9	4360.3	4424.3	4511.2	4616.3
5°	3574.2	3597.1	3624.5	3715.9	3775.3	3789.0	3949.0	4067.8	4264.4	4465.5	4652.9
7.5°	3103.4	3130.9	3185.7	3286.3	3409.7	3441.7	3601.6	3839.3	4095.2	4360.3	4666.6
10°	2760.6	2788.1	2847.5	2911.5	3076.0	3076.0	3295.4	3624.5	3958.1	4268.9	4671.1
12.5°	2687.5	2701.2	2696.6	2746.9	2852.0	2874.9	3089.7	3450.8	3839.3	4236.9	4744.3
15°	2774.3	2783.5	2737.8	2710.4	2801.8	2824.6	3025.7	3345.7	3761.6	4255.2	4863.1
17.5°	2948.0	2916.0	2824.6	2783.5	2861.2	2874.9	3062.3	3341.1	3752.5	4305.5	5000.2
20°	3048.6	3085.1	2925.2	2847.5	2957.2	2975.5	3176.6	3414.2	3798.2	4392.3	5192.2
22.5°	3226.8	3245.1	3030.3	2980.0	3085.1	3085.1	3313.7	3560.5	3907.9	4534.0	5420.7
25°	3478.2	3455.4	3204.0	3153.7	3254.3	3295.4	3523.9	3793.6	4077.0	4666.6	5631.0
27.5°	3674.8	3688.5	3482.8	3350.2	3519.4	3546.8	3793.6	4045.0	4204.9	4776.3	5886.9
30°	3967.3	3939.8	3720.5	3569.6	3779.9	3784.4	4022.1	4282.6	4451.8	4972.8	6270.8
32.5°	4314.6	4259.8	4008.4	3793.6	3962.7	4003.8	4246.1	4625.4	4835.7	5343.0	6865.0
35°	5050.5	4918.0	4506.6	4172.9	4186.7	4204.9	4579.7	5123.6	5365.9	5813.8	7660.3
37.5°	6124.6	6069.7	5603.5	4968.2	4726.0	4671.1	5091.6	5781.8	6083.5	6435.4	8693.3
40°	7189.5	7111.8	6677.6	6197.7	5758.9	5649.2	5859.5	6654.8	6929.0	7299.2	9753.6
42.5°	8373.3	8236.2	7724.3	7335.8	7061.6	6942.7	6860.5	7751.7	8062.5	8313.9	10791.2
45°	9570.8	9346.9	8606.4	8309.3	8163.1	8099.1	8089.9	9132.0	9319.4	9369.7	11943.0
47.5°	10622.1	10379.8	9707.9	9374.3	9264.6	9246.3	9758.2	10722.6	10576.3	10443.8	13227.3
50°	11431.0	11275.6	10791.2	10672.3	10590.1	10558.1	11755.6	12358.9	11682.4	11449.3	14356.2
52.5°	12683.4	12336.0	11787.6	11828.7	12116.6	12121.2	13780.3	13912.9	12601.1	12139.5	15421.2
55°	13684.3	13455.8	13007.9	12948.5	13707.2	13789.5	15594.9	15092.1	13113.0	12797.7	15814.2
57.5°	14863.6	14758.4	14433.9	14443.1	15238.3	15412.0	17208.3	16088.5	13538.1	13222.7	15873.7
60°	16568.4	16266.7	16097.6	16175.3	17112.3	17281.4	18771.4	16806.1	13743.8	13501.5	15727.4
62.5°	18451.5	18099.5	17916.7	18314.4	19681.0	19708.4	19959.8	17441.4	13615.8	13574.7	14785.9
65°	20718.5	20371.1	20224.9	21024.7	22647.3	22546.7	21628.0	17711.0	13209.0	12838.8	12313.2
67.5°	22976.4	22766.1	22464.4	23739.6	25759.8	25759.8	23360.3	17610.5	12144.1	10306.7	8053.4
70°	24045.9	24192.1	24672.0	26674.0	28817.6	28598.2	25069.7	16454.1	9040.6	5535.0	3167.4
72°	23332.9	23182.0	24420.7	27633.8	30700.7	30339.6	24781.7	13081.0	5224.2	2427.0	1101.5
72.5°	22107.9	22249.6	23954.5	27501.2	30348.7	30645.8	24077.9	12066.4	4296.4	1933.4	831.8
75°	13556.4	13798.6	17880.1	23351.1	26445.4	26111.8	18625.2	5749.8	1650.0	822.7	297.1
77.5°	4949.9	5151.1	8675.0	14694.4	18808.0	18597.7	10777.5	2043.1	895.8	612.5	150.8
80°	1288.9	1394.0	2948.0	6778.2	11060.8	11074.5	4511.2	818.1	607.9	502.8	91.4
82.5°	256.0	283.4	905.0	2637.2	5169.3	5100.8	1426.0	438.8	457.1	411.4	64.0
85°	32.0	41.1	192.0	895.8	1672.8	1499.2	351.9	219.4	338.2	319.9	41.1
87.5°	4.6	4.6	45.7	205.7	351.9	342.8	73.1	68.6	150.8	196.5	22.9
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°	4625.4	4625.4	4625.4	4625.4	4625.4	4625.4	4625.4	4625.4	4625.4	4625.4	4625.4
2.5°	4675.7	4694.0	4758.0	4812.8	4876.8	4895.1	4867.7	4913.4	4849.4	4886.0	4895.1
5°	4684.9	4790.0	4908.8	4986.5	4968.2	4922.5	4886.0	4762.6	4675.7	4643.7	4712.3
7.5°	4748.8	4867.7	4995.7	4995.7	4895.1	4657.4	4428.9	4209.5	4026.7	3935.3	4013.0
10°	4831.1	4954.5	5087.1	4913.4	4538.6	4104.4	3779.9	3368.5	3089.7	2943.5	2957.2
12.5°	4940.8	5114.5	5160.2	4758.0	4136.4	3491.9	2902.3	2331.0	2065.9	1855.7	1860.2
15°	5082.5	5251.6	5114.5	4419.8	3624.5	2673.8	1965.4	1421.5	1211.2	1101.5	1101.5
17.5°	5269.9	5397.9	5100.8	4109.0	2934.3	1828.2	1206.6	959.8	914.1	895.8	895.8
20°	5489.3	5585.3	4968.2	3624.5	2180.2	1174.6	886.7	859.3	863.8	854.7	854.7
22.5°	5736.1	5768.1	4817.4	3062.3	1476.3	868.4	827.3	831.8	836.4	827.3	831.8
25°	5996.6	5909.8	4598.0	2404.1	982.7	790.7	799.9	809.0	813.6	818.1	818.1
27.5°	6289.1	6115.4	4291.8	1759.7	767.9	745.0	772.4	799.9	804.4	804.4	799.9
30°	6718.8	6430.8	3994.7	1192.9	676.4	694.7	740.4	772.4	795.3	795.3	790.7
32.5°	7262.7	6759.9	3578.8	813.6	626.2	635.3	671.9	735.9	786.1	790.7	777.0
35°	8016.8	7157.5	3144.6	649.0	589.6	594.2	617.0	667.3	754.1	781.6	777.0
37.5°	8812.1	7610.0	2605.2	585.0	562.2	557.6	571.3	612.5	690.2	758.7	763.3
40°	9657.7	8085.4	2038.5	553.0	539.3	530.2	534.8	553.0	612.5	699.3	717.6
42.5°	10452.9	8515.0	1531.1	521.0	516.5	507.3	507.3	511.9	543.9	603.3	612.5
45°	11312.2	8866.9	1165.5	498.2	484.5	489.1	470.8	461.6	484.5	489.1	484.5
47.5°	12116.6	9218.9	932.4	470.8	457.1	457.1	434.2	415.9	415.9	374.8	370.2
50°	12870.8	9410.8	745.0	434.2	429.6	425.1	393.1	361.1	333.7	283.4	274.2
52.5°	13497.0	9401.7	575.9	388.5	402.2	388.5	338.2	292.5	251.4	205.7	196.5
55°	13684.3	8962.9	434.2	319.9	342.8	324.5	269.7	228.5	182.8	146.3	141.7
57.5°	13524.4	8295.6	329.1	246.8	265.1	246.8	205.7	169.1	128.0	100.6	91.4
60°	12989.6	7514.0	256.0	192.0	201.1	187.4	155.4	128.0	91.4	64.0	54.8
62.5°	11974.9	6535.9	196.5	150.8	146.3	146.3	118.8	96.0	64.0	36.6	32.0
65°	9826.8	5096.2	150.8	105.1	105.1	105.1	91.4	68.6	41.1	18.3	9.1
67.5°	6170.3	2966.3	123.4	82.3	77.7	77.7	64.0	45.7	22.9	4.6	0.0
70°	2321.9	1087.8	96.0	64.0	59.4	59.4	45.7	27.4	13.7	0.0	0.0
72°	799.9	415.9	77.7	45.7	45.7	41.1	32.0	22.9	9.1	0.0	0.0
72.5°	658.2	333.7	73.1	45.7	41.1	41.1	32.0	22.9	9.1	0.0	0.0
75°	237.7	137.1	50.3	32.0	27.4	27.4	22.9	13.7	4.6	0.0	0.0
77.5°	118.8	86.8	41.1	27.4	22.9	13.7	13.7	9.1	4.6	0.0	0.0
80°	73.1	54.8	22.9	18.3	13.7	9.1	4.6	4.6	0.0	0.0	0.0
82.5°	50.3	32.0	13.7	13.7	9.1	4.6	0.0	0.0	0.0	0.0	0.0
85°	32.0	13.7	9.1	9.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.7	9.1	4.6	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)