

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: P481722

Luminaire Tested: **IFLD-S-SA6C-750-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481722
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-750-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

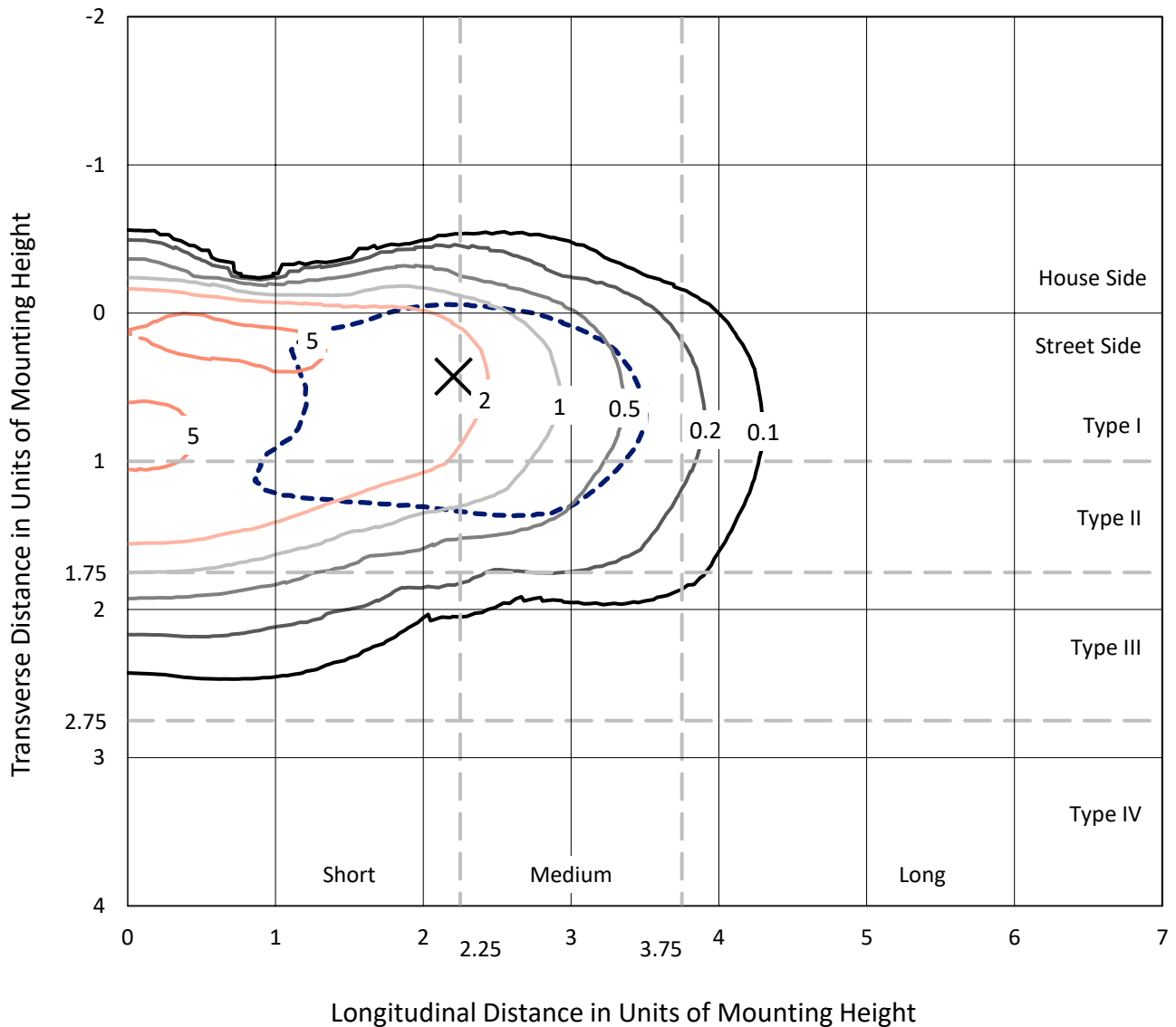
Lumens per Lamp: N/A
Luminaire Lumens: 30608.3 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 321.5
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

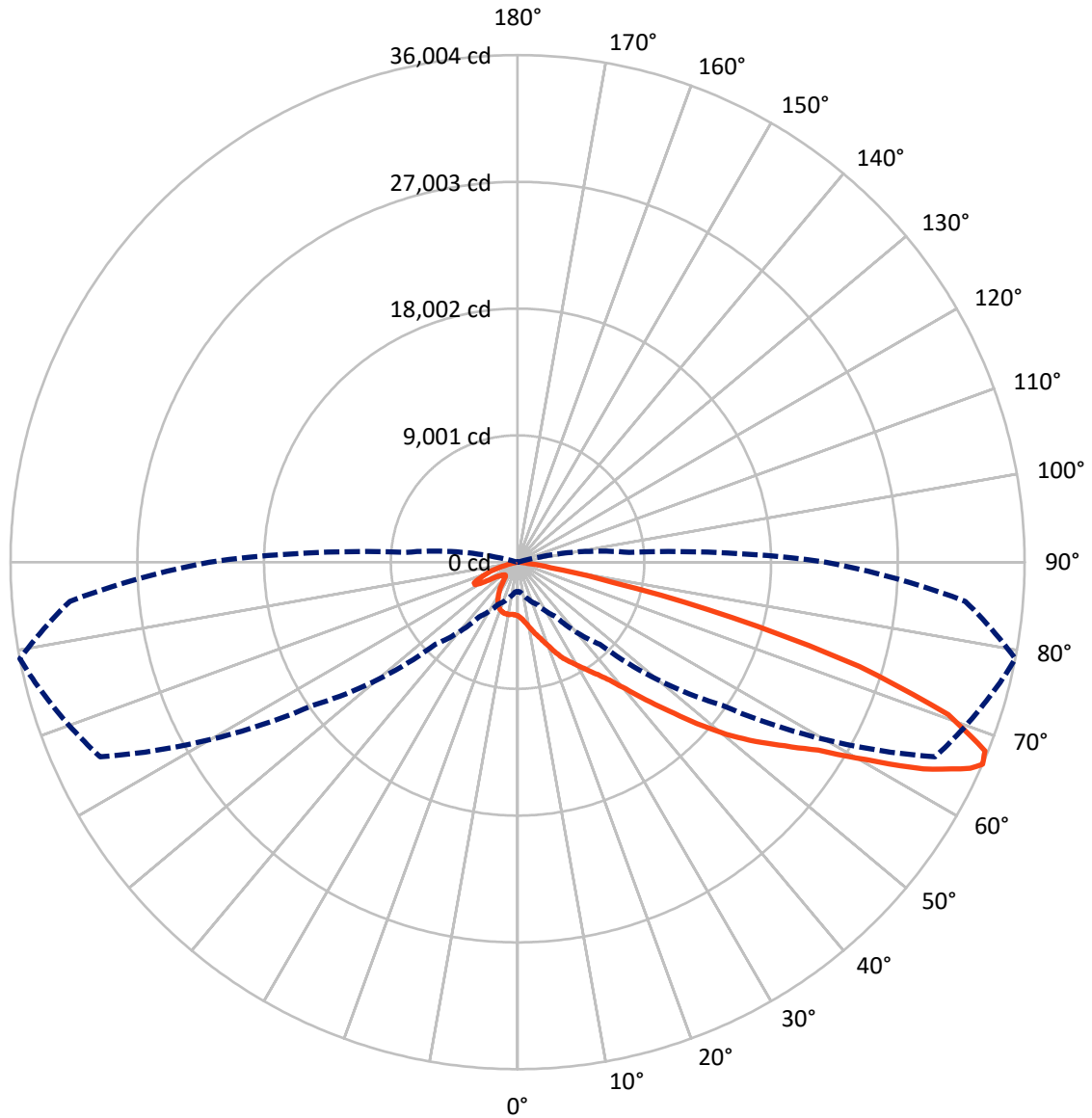
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2298.3	0.0	2298.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	28310.0	0.0	28310.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	30608.3	0.0	30608.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.1	1.2
10°-20°	991.1	3.2
20°-30°	1646.5	5.4
30°-40°	2828.1	9.2
40°-50°	5123.5	16.7
50°-60°	8098.8	26.5
60°-70°	8241.1	26.9
70°-80°	3142.8	10.3
80°-90°	176.2	0.6
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°	30608.3	100.0
0°-180°	30608.3	100.0

Coefficient of Utilization



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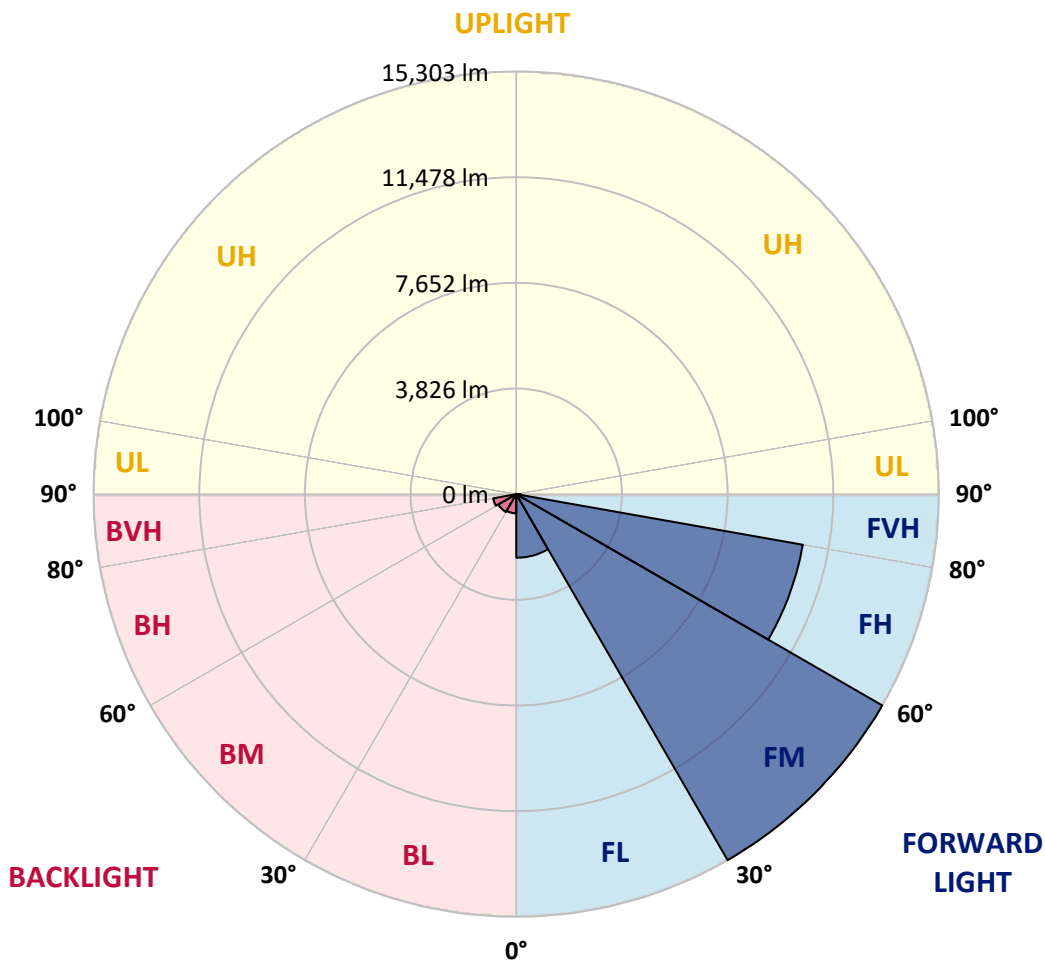
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2302.8	7.5			
FM (30°-60°)	15303.5	50.0			
FH (60°-80°)	10536.6	34.4			G4/12000
FVH (80°-90°)	167.2	0.5			G2/225
BL (0°-30°)	695.1	2.3	B2/1000		
BM (30°-60°)	747.0	2.4	B1/1000		
BH (60°-80°)	847.2	2.8	B2/1000		G2/1000
BVH (80°-90°)	9.0	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3808.0	3808.0	3808.0	3808.0	3808.0	3808.0	3808.0	3808.0	3808.0	3808.0	3808.0
2.5°	4312.9	4308.2	4289.4	4256.3	4213.9	4199.7	4138.4	4053.4	4006.2	3954.3	3930.7
5°	4610.2	4586.6	4643.3	4619.7	4629.1	4515.9	4440.4	4379.0	4199.7	4128.9	4015.7
7.5°	4676.3	4699.9	4695.2	4732.9	4770.7	4813.1	4761.2	4671.6	4492.3	4388.4	4265.8
10°	4676.3	4666.9	4704.6	4756.5	4865.0	4959.4	5101.0	4983.0	4846.2	4723.5	4501.7
12.5°	4591.4	4577.2	4614.9	4723.5	4916.9	5110.4	5266.1	5379.4	5185.9	5086.8	4799.0
15°	4331.8	4317.7	4473.4	4666.9	4921.7	5237.8	5563.4	5747.4	5615.3	5459.6	5138.7
17.5°	4010.9	4029.8	4195.0	4515.9	4921.7	5299.2	5714.4	6115.5	6096.6	5898.4	5563.4
20°	3902.4	3916.6	4081.7	4312.9	4775.4	5341.6	5950.4	6516.6	6629.9	6393.9	5955.1
22.5°	4110.0	4095.9	4110.0	4251.6	4676.3	5303.9	6106.1	6974.3	7177.2	6993.2	6469.4
25°	4817.9	4808.4	4690.4	4473.4	4619.7	5218.9	6186.3	7276.3	7743.5	7573.6	6884.7
27.5°	5856.0	5818.2	5634.2	5181.2	4883.9	5270.9	6318.4	7568.9	8239.0	8045.5	7257.5
30°	6969.6	6880.0	6639.3	6073.0	5568.1	5464.3	6393.9	7786.0	8791.0	8545.7	7583.0
32.5°	7738.8	7856.7	7781.2	7205.5	6431.7	5912.6	6516.6	8059.6	9300.7	9140.2	8139.9
35°	8927.9	9064.7	8748.6	8239.0	7460.4	6625.1	6776.1	8281.4	10084.0	9815.0	8658.9
37.5°	10428.5	10532.3	10305.8	9338.4	8517.4	7502.8	7309.4	8743.9	10758.8	10631.4	9324.3
40°	11183.5	11683.6	11362.8	10489.8	9607.4	8729.7	8191.8	9286.5	11933.7	11829.9	10244.4
42.5°	12226.3	12476.4	12311.2	11664.8	10744.6	10041.5	9281.8	10343.5	13358.8	13358.8	11490.2
45°	13330.5	13339.9	13330.5	12802.0	11985.6	11622.3	10754.1	11669.5	14892.4	15062.3	12981.3
47.5°	14236.5	14519.6	14496.0	14179.9	13547.6	13410.7	12226.3	13179.5	16817.7	17114.9	14434.7
50°	14703.7	15019.8	15114.2	15279.3	15251.0	15538.9	13835.4	14930.2	18478.7	19210.1	16303.3
52.5°	14576.2	14599.8	15180.2	15831.4	16869.6	17676.5	15774.8	16916.8	20422.8	21144.8	17747.3
55°	13533.4	13443.7	14637.6	15383.2	17530.2	18983.6	18459.8	19394.1	21937.5	23037.0	19238.4
57.5°	11244.8	11268.4	12372.6	13887.3	17039.4	19502.6	21328.8	22631.2	24061.0	25169.9	21333.5
60°	7762.4	7734.0	8970.4	10721.0	14156.3	18535.3	22980.4	26826.1	26901.6	28473.0	25094.4
62.5°	4364.9	4374.3	5313.3	6809.2	9904.7	15147.2	22900.1	31280.7	30959.8	32337.7	29369.6
65°	2472.6	2534.0	3180.4	4034.5	5931.5	10168.9	19696.1	33054.9	34088.3	35315.2	31964.9
66°	2090.4	2132.9	2685.0	3331.4	4732.9	8248.4	17728.4	32710.4	35069.8	36004.1	31913.0
67.5°	1618.5	1675.2	2137.6	2642.5	3473.0	5709.7	14269.5	30997.5	35249.1	35796.5	31011.7
70°	1108.9	1146.7	1500.6	2005.5	2373.5	2920.9	8531.5	25627.6	31983.8	32446.2	26953.6
72.5°	778.6	797.5	1052.3	1519.4	1826.2	1670.4	4232.7	18233.3	24476.2	25377.5	20965.4
75°	561.5	580.4	722.0	1090.0	1425.1	1094.8	1939.4	11645.9	15010.4	15718.2	12627.4
77.5°	405.8	429.4	490.8	703.1	1033.4	769.2	953.2	6082.5	7078.1	6955.5	5431.3
80°	245.4	269.0	363.3	453.0	755.0	542.7	523.8	2538.7	2510.4	2383.0	1708.2
82.5°	113.3	132.1	193.5	306.7	528.5	377.5	250.1	906.0	792.8	726.7	481.3
85°	33.0	42.5	113.3	231.2	269.0	184.0	151.0	311.4	325.6	278.4	160.4
87.5°	0.0	4.7	51.9	56.6	80.2	61.3	56.6	80.2	151.0	122.7	51.9
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°	3808.0	3808.0	3808.0	3808.0	3808.0	3808.0	3808.0	3808.0	3808.0	3808.0	3808.0
2.5°	3845.8	3812.8	3732.5	3609.9	3501.3	3444.7	3364.5	3293.7	3255.9	3251.2	3246.5
5°	3940.2	3850.5	3657.0	3435.3	3270.1	3090.8	2968.1	2878.4	2793.5	2713.3	2760.5
7.5°	4067.6	3926.0	3609.9	3322.0	2963.4	2732.2	2515.1	2387.7	2312.2	2241.4	2232.0
10°	4265.8	4086.4	3576.8	3057.8	2647.2	2307.5	2085.7	1901.7	1797.8	1675.2	1722.3
12.5°	4534.7	4213.9	3454.1	2817.1	2288.6	1930.0	1613.8	1316.5	1151.4	1024.0	1028.7
15°	4803.7	4383.7	3340.9	2524.5	1963.0	1491.1	1028.7	825.8	778.6	750.3	759.7
17.5°	5067.9	4520.6	3166.3	2227.3	1590.2	948.5	750.3	707.8	684.2	655.9	655.9
20°	5388.8	4610.2	2949.2	1953.6	1094.8	703.1	641.8	613.4	575.7	537.9	542.7
22.5°	5700.3	4685.7	2699.1	1604.4	736.1	608.7	537.9	500.2	467.2	429.4	429.4
25°	6011.7	4709.3	2373.5	1151.4	594.6	486.0	420.0	368.1	335.0	302.0	306.7
27.5°	6224.0	4563.0	2066.8	736.1	476.6	368.1	292.6	250.1	221.8	188.8	188.8
30°	6346.7	4294.1	1736.5	519.1	358.6	250.1	174.6	132.1	103.8	80.2	75.5
32.5°	6469.4	4077.0	1363.7	396.4	235.9	132.1	66.1	23.6	0.0	0.0	0.0
35°	6714.8	3831.6	915.4	221.8	80.2	4.7	0.0	0.0	0.0	0.0	0.0
37.5°	6870.5	3491.9	420.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7262.2	3322.0	103.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7899.2	3204.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8597.6	3156.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9527.2	3284.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10508.7	3628.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11584.6	3954.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	12523.6	4346.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	14250.7	5270.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	17350.9	7087.6	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	20842.8	8437.1	51.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	22121.5	8404.1	89.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	21895.0	7941.7	89.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	20720.1	7054.5	80.2	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	17794.4	5827.7	80.2	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	13566.4	4539.4	75.5	18.9	4.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	8187.0	2416.0	61.3	23.6	9.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3260.7	849.4	47.2	18.9	9.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	882.4	254.8	28.3	18.9	14.2	4.7	0.0	0.0	0.0	0.0	0.0
82.5°	231.2	94.4	23.6	18.9	9.4	4.7	0.0	0.0	0.0	0.0	0.0
85°	89.7	37.8	18.9	14.2	14.2	9.4	4.7	0.0	0.0	0.0	0.0
87.5°	28.3	14.2	14.2	9.4	9.4	4.7	4.7	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)