

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: P481727

Luminaire Tested: **IFLD-M-SA4C-750-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481727
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-750-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

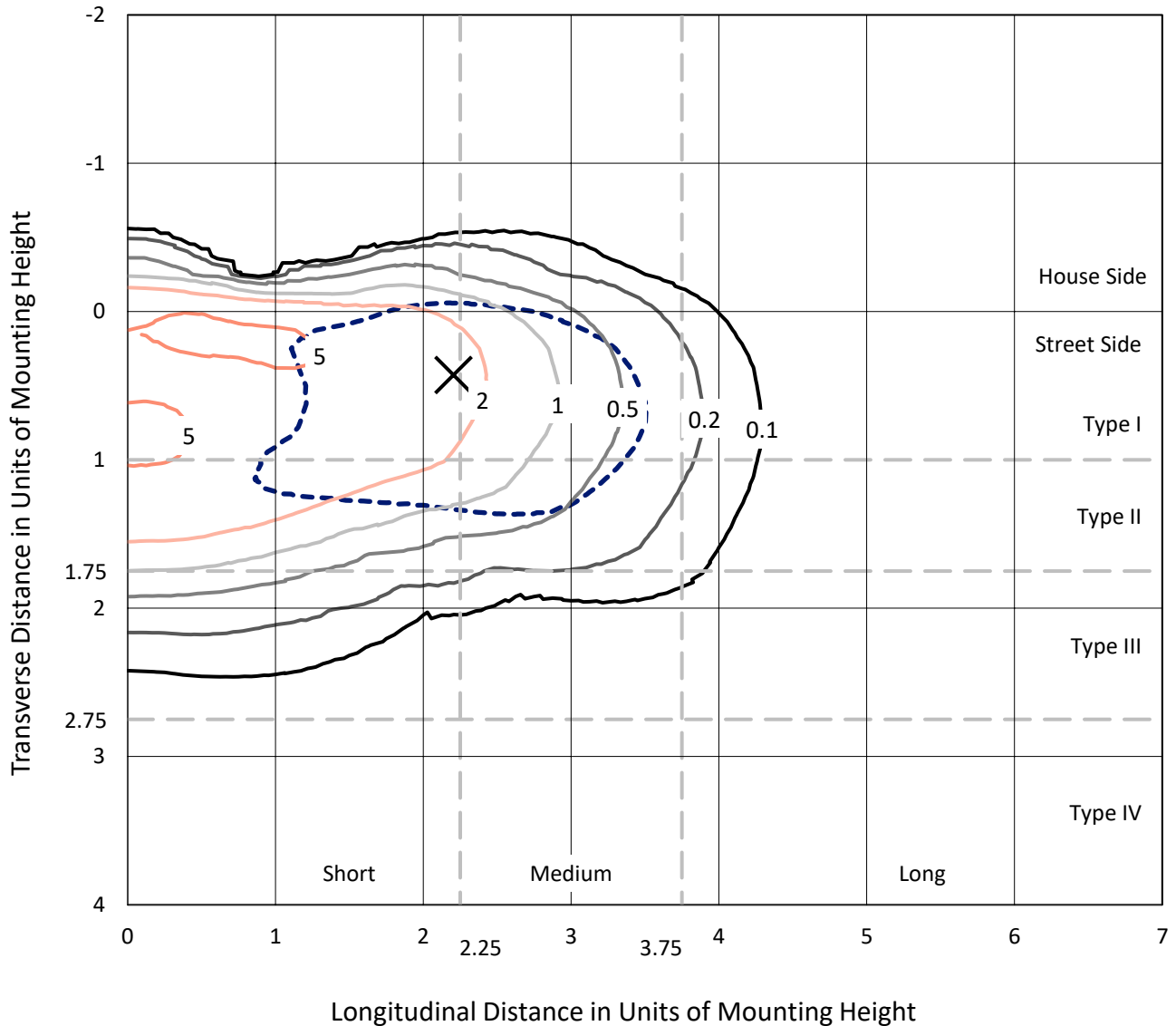
Lumens per Lamp: N/A
Luminaire Lumens: 20943.6 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 218.1
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

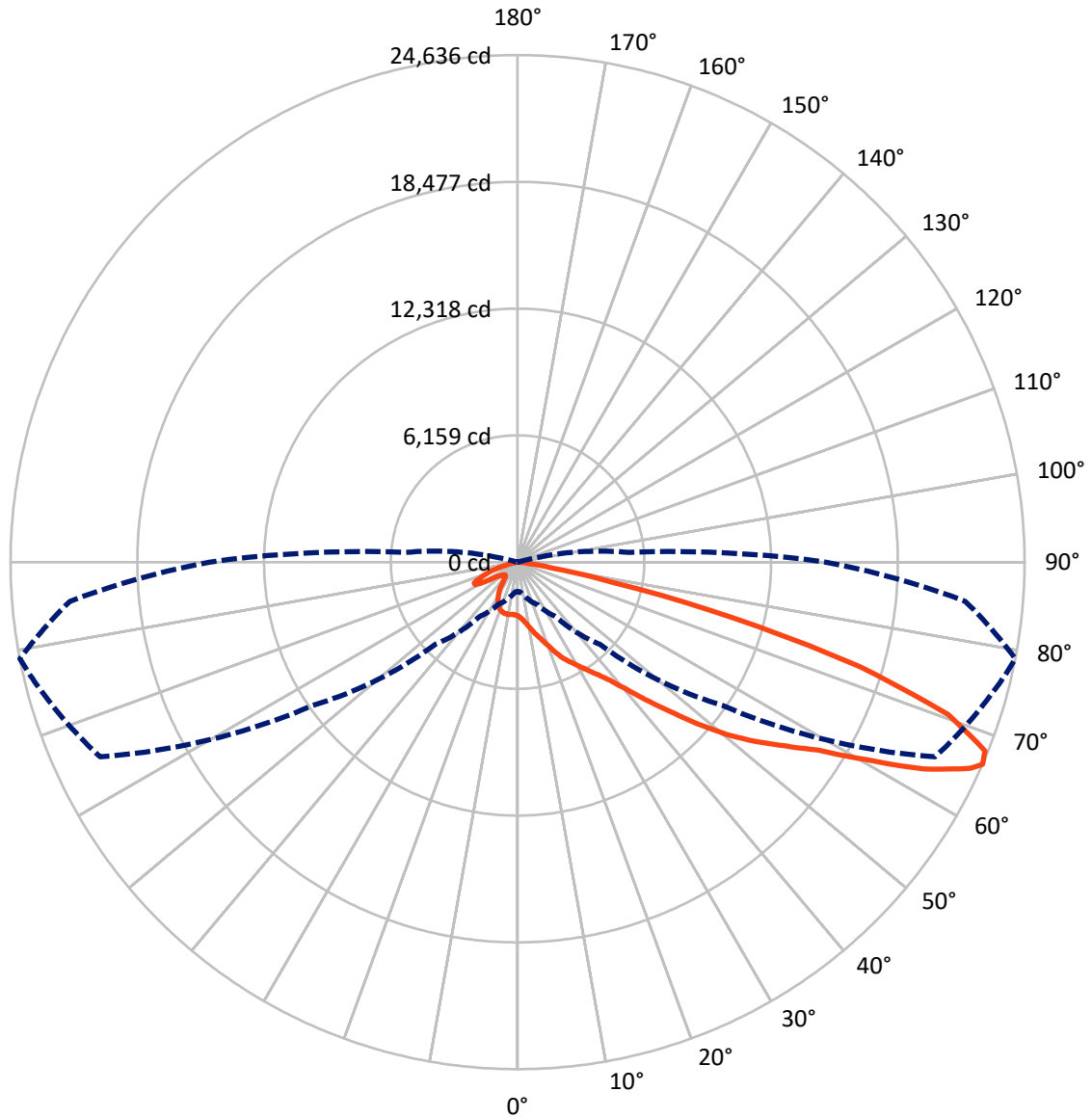
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	1572.6	0.0	1572.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	19371.0	0.0	19371.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	20943.6	0.0	20943.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.4	1.2
10°-20°	678.2	3.2
20°-30°	1126.6	5.4
30°-40°	1935.1	9.2
40°-50°	3505.7	16.7
50°-60°	5541.6	26.5
60°-70°	5638.9	26.9
70°-80°	2150.4	10.3
80°-90°	120.6	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°	20943.6	100.0
0°-180°	20943.6	100.0

Coefficient of Utilization



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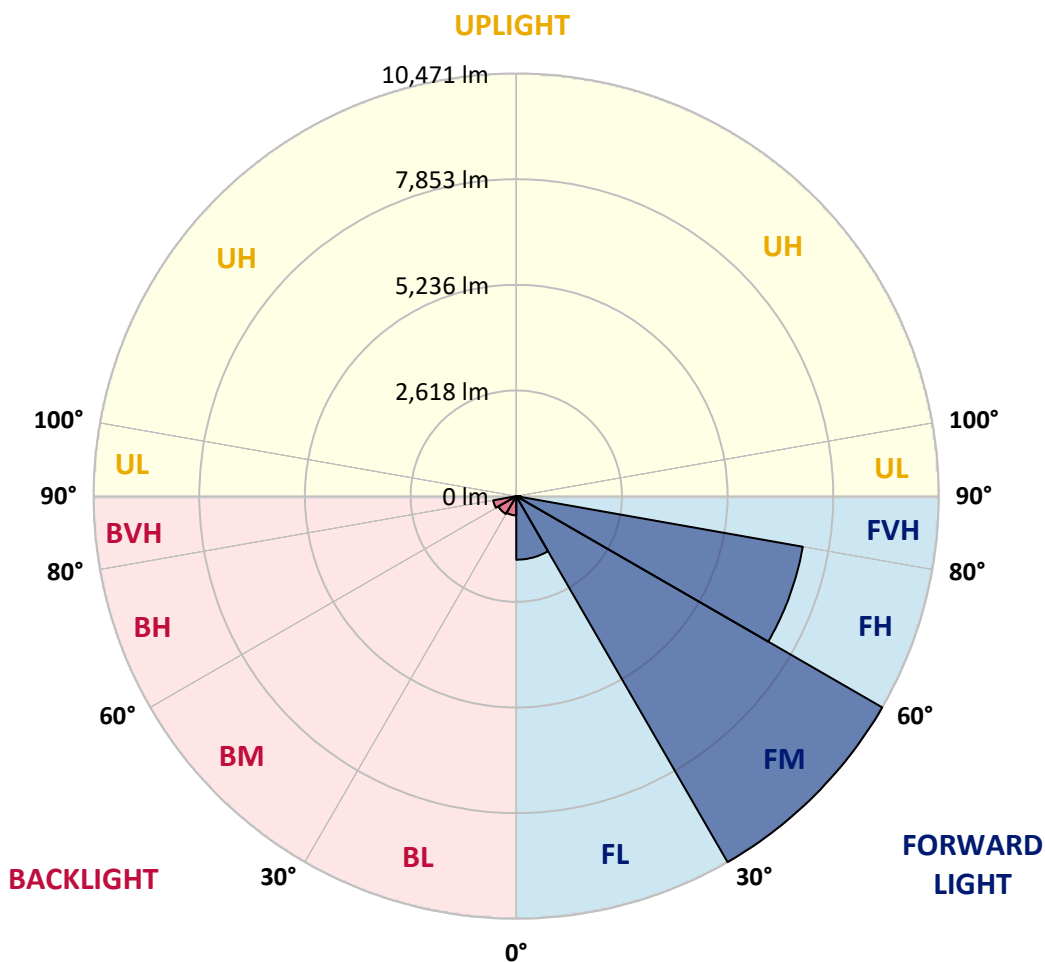
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1575.7	7.5			
FM (30°-60°)	10471.3	50.0			
FH (60°-80°)	7209.7	34.4			G3/7500
FVH (80°-90°)	114.4	0.5			G2/225
BL (0°-30°)	475.6	2.3	B1/500		
BM (30°-60°)	511.1	2.4	B1/1000		
BH (60°-80°)	579.7	2.8	B2/1000		G2/1000
BVH (80°-90°)	6.2	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2605.6	2605.6	2605.6	2605.6	2605.6	2605.6	2605.6	2605.6	2605.6	2605.6	2605.6
2.5°	2951.1	2947.9	2935.0	2912.4	2883.3	2873.6	2831.7	2773.5	2741.2	2705.7	2689.6
5°	3154.5	3138.4	3177.1	3161.0	3167.4	3090.0	3038.3	2996.3	2873.6	2825.2	2747.7
7.5°	3199.7	3215.9	3212.7	3238.5	3264.3	3293.4	3257.9	3196.5	3073.8	3002.8	2918.8
10°	3199.7	3193.3	3219.1	3254.6	3328.9	3393.5	3490.3	3409.6	3316.0	3232.0	3080.3
12.5°	3141.6	3131.9	3157.8	3232.0	3364.4	3496.8	3603.3	3680.8	3548.4	3480.6	3283.7
15°	2964.0	2954.3	3060.9	3193.3	3367.6	3584.0	3806.7	3932.7	3842.3	3735.7	3516.2
17.5°	2744.5	2757.4	2870.4	3090.0	3367.6	3625.9	3910.1	4184.5	4171.6	4036.0	3806.7
20°	2670.2	2679.9	2792.9	2951.1	3267.5	3655.0	4071.5	4459.0	4536.5	4375.0	4074.7
22.5°	2812.3	2802.6	2812.3	2909.1	3199.7	3629.2	4178.1	4772.2	4911.0	4785.1	4426.7
25°	3296.6	3290.1	3209.4	3060.9	3161.0	3571.0	4232.9	4978.8	5298.5	5182.2	4710.8
27.5°	4006.9	3981.1	3855.2	3545.2	3341.8	3606.6	4323.4	5179.0	5637.5	5505.1	4965.9
30°	4768.9	4707.6	4542.9	4155.5	3810.0	3738.9	4375.0	5327.5	6015.2	5847.3	5188.7
32.5°	5295.2	5375.9	5324.3	4930.4	4400.8	4045.7	4459.0	5514.8	6364.0	6254.2	5569.7
35°	6108.9	6202.5	5986.2	5637.5	5104.7	4533.2	4636.5	5666.5	6899.9	6715.9	5924.8
37.5°	7135.6	7206.7	7051.7	6389.8	5828.0	5133.8	5001.4	5983.0	7361.7	7274.5	6380.1
40°	7652.2	7994.5	7774.9	7177.6	6573.8	5973.3	5605.2	6354.3	8165.6	8094.6	7009.7
42.5°	8365.8	8536.9	8423.9	7981.6	7352.0	6870.9	6351.0	7077.5	9140.7	9140.7	7862.1
45°	9121.3	9127.8	9121.3	8759.7	8201.1	7952.5	7358.4	7984.8	10190.1	10306.3	8882.4
47.5°	9741.3	9935.0	9918.9	9702.5	9269.9	9176.2	8365.8	9018.0	11507.4	11710.8	9876.9
50°	10060.9	10277.3	10341.8	10454.8	10435.5	10632.4	9466.8	10215.9	12644.0	13144.4	11155.5
52.5°	9973.7	9989.9	10387.0	10832.6	11542.9	12095.1	10793.9	11575.2	13974.2	14468.2	12143.5
55°	9260.2	9198.8	10015.7	10525.9	11995.0	12989.4	12631.0	13270.3	15010.7	15763.0	13163.8
57.5°	7694.2	7710.4	8465.9	9502.3	11659.2	13344.6	14594.1	15485.3	16463.6	17222.4	14597.4
60°	5311.4	5292.0	6137.9	7335.8	9686.4	12682.7	15724.2	18355.7	18407.4	19482.5	17170.7
62.5°	2986.6	2993.1	3635.6	4659.1	6777.2	10364.4	15669.3	21403.7	21184.1	22126.9	20096.0
65°	1691.9	1733.9	2176.2	2760.6	4058.6	6958.1	13477.0	22617.7	23324.8	24164.3	21871.9
66°	1430.4	1459.4	1837.2	2279.5	3238.5	5643.9	12130.6	22382.0	23996.4	24635.7	21836.3
67.5°	1107.5	1146.2	1462.6	1808.1	2376.4	3906.8	9763.9	21209.9	24119.1	24493.6	21219.6
70°	758.8	784.6	1026.8	1372.2	1624.1	1998.6	5837.7	17535.6	21884.8	22201.2	18442.9
72.5°	532.8	545.7	720.0	1039.7	1249.5	1143.0	2896.2	12476.1	16747.8	17364.5	14345.5
75°	384.2	397.1	494.0	745.9	975.1	749.1	1327.0	7968.7	10270.8	10755.1	8640.3
77.5°	277.7	293.8	335.8	481.1	707.1	526.3	652.2	4161.9	4843.2	4759.2	3716.3
80°	167.9	184.0	248.6	310.0	516.6	371.3	358.4	1737.1	1717.7	1630.5	1168.8
82.5°	77.5	90.4	132.4	209.9	361.6	258.3	171.1	619.9	542.4	497.2	329.3
85°	22.6	29.1	77.5	158.2	184.0	125.9	103.3	213.1	222.8	190.5	109.8
87.5°	0.0	3.2	35.5	38.7	54.9	42.0	38.7	54.9	103.3	83.9	35.5
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°	2605.6	2605.6	2605.6	2605.6	2605.6	2605.6	2605.6	2605.6	2605.6	2605.6	2605.6
2.5°	2631.5	2608.9	2554.0	2470.0	2395.8	2357.0	2302.1	2253.7	2227.9	2224.6	2221.4
5°	2696.0	2634.7	2502.3	2350.6	2237.6	2114.9	2030.9	1969.6	1911.4	1856.6	1888.8
7.5°	2783.2	2686.4	2470.0	2273.1	2027.7	1869.5	1720.9	1633.8	1582.1	1533.7	1527.2
10°	2918.8	2796.1	2447.4	2092.3	1811.4	1578.9	1427.1	1301.2	1230.2	1146.2	1178.5
12.5°	3102.9	2883.3	2363.5	1927.6	1566.0	1320.6	1104.2	900.8	787.8	700.6	703.9
15°	3286.9	2999.5	2286.0	1727.4	1343.2	1020.3	703.9	565.0	532.8	513.4	519.8
17.5°	3467.7	3093.2	2166.5	1524.0	1088.1	649.0	513.4	484.3	468.2	448.8	448.8
20°	3687.3	3154.5	2018.0	1336.7	749.1	481.1	439.1	419.7	393.9	368.1	371.3
22.5°	3900.4	3206.2	1846.9	1097.8	503.7	416.5	368.1	342.3	319.7	293.8	293.8
25°	4113.5	3222.3	1624.1	787.8	406.8	332.6	287.4	251.8	229.2	206.6	209.9
27.5°	4258.8	3122.2	1414.2	503.7	326.1	251.8	200.2	171.1	151.8	129.2	129.2
30°	4342.7	2938.2	1188.2	355.2	245.4	171.1	119.5	90.4	71.0	54.9	51.7
32.5°	4426.7	2789.7	933.1	271.2	161.4	90.4	45.2	16.1	0.0	0.0	0.0
35°	4594.6	2621.8	626.4	151.8	54.9	3.2	0.0	0.0	0.0	0.0	0.0
37.5°	4701.1	2389.3	287.4	22.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4969.1	2273.1	71.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5405.0	2192.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5882.9	2160.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6518.9	2247.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7190.5	2482.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7926.7	2705.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8569.2	2973.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9751.0	3606.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11872.3	4849.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	14261.6	5773.1	35.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	15136.6	5750.5	61.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	14981.6	5434.1	61.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	14177.6	4827.0	54.9	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	12175.8	3987.6	54.9	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9282.8	3106.1	51.7	12.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	5602.0	1653.1	42.0	16.1	6.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2231.1	581.2	32.3	12.9	6.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	603.8	174.4	19.4	12.9	9.7	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	158.2	64.6	16.1	12.9	6.5	3.2	0.0	0.0	0.0	0.0	0.0
85°	61.3	25.8	12.9	9.7	9.7	6.5	3.2	0.0	0.0	0.0	0.0
87.5°	19.4	9.7	9.7	6.5	6.5	3.2	3.2	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)