

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: P481536

Luminaire Tested: **IFLD-L-SA7B-722-U-T2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481536
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-722-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

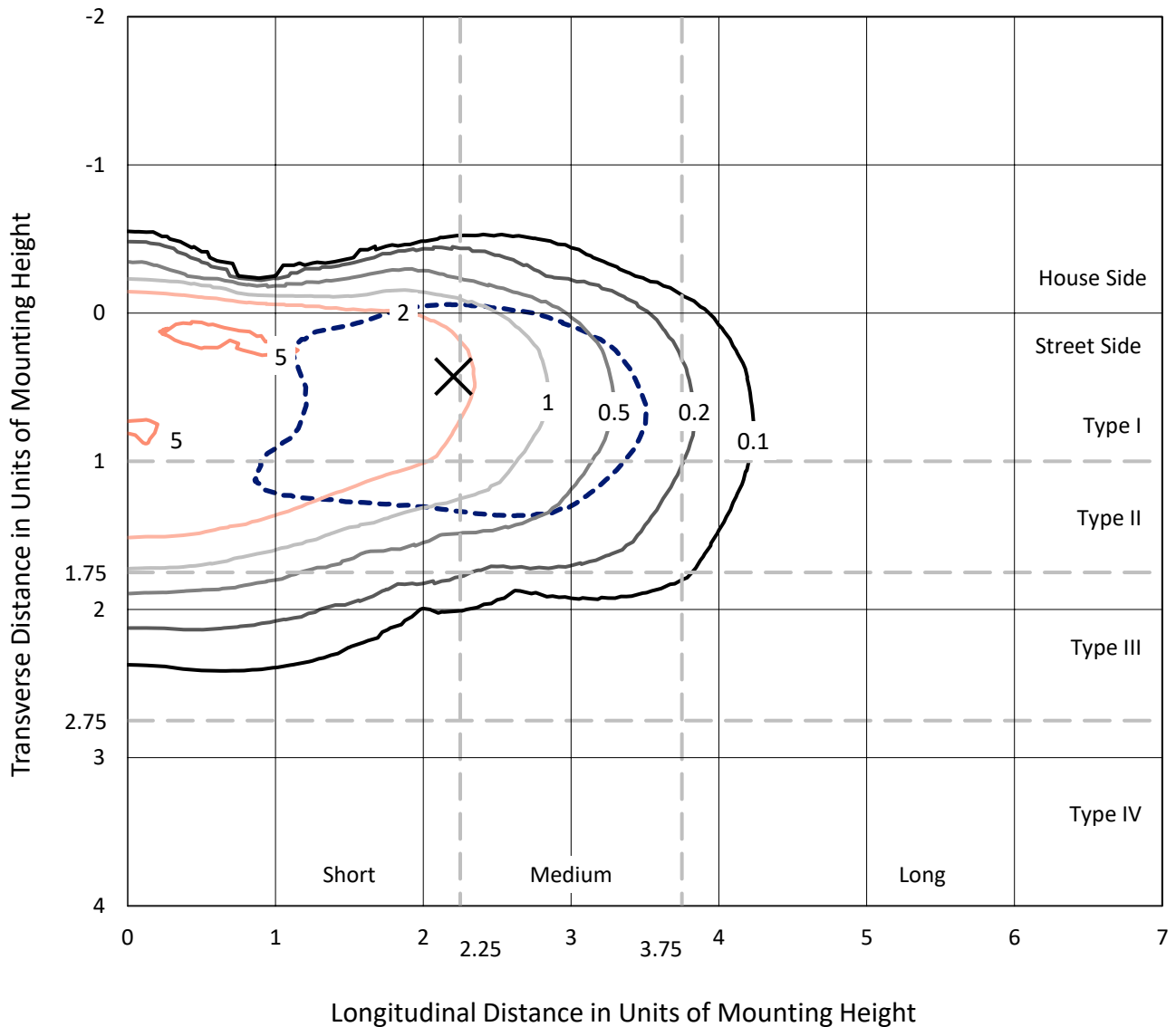
Lumens per Lamp: N/A
Luminaire Lumens: 18890.5 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 281
Input Voltage (V): 120
Input Current (A_{in}): 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

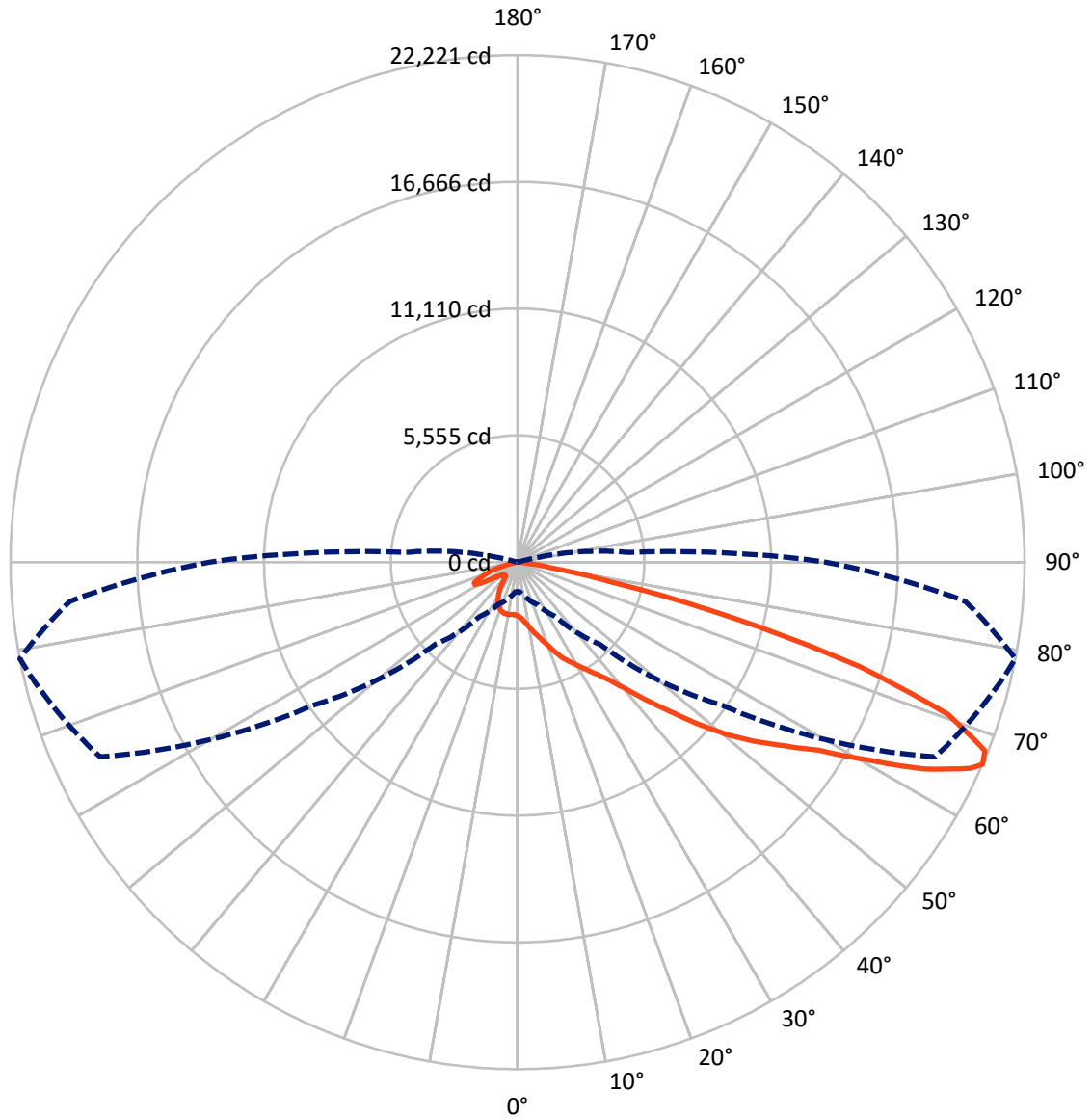
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	1418.4	0.0	1418.4
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	17472.1	0.0	17472.1
	% Fixture	92.5	0.0	92.5
Total	Lumens	18890.5	0.0	18890.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.3	1.2
10°-20°	611.7	3.2
20°-30°	1016.2	5.4
30°-40°	1745.4	9.2
40°-50°	3162.1	16.7
50°-60°	4998.3	26.5
60°-70°	5086.2	26.9
70°-80°	1939.6	10.3
80°-90°	108.7	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°	18890.5	100.0
0°-180°	18890.5	100.0

Coefficient of Utilization



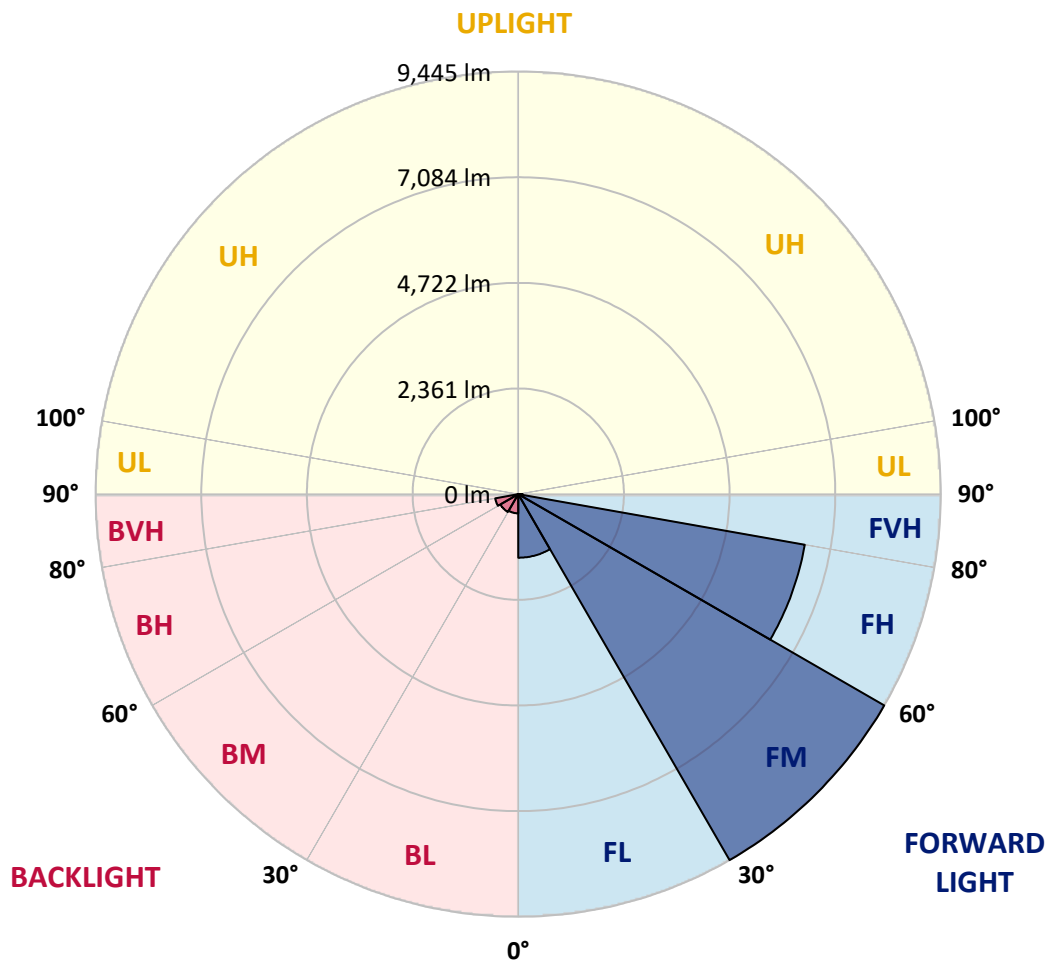
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1421.2	7.5			
FM (30°-60°)	9444.9	50.0			
FH (60°-80°)	6502.9	34.4			G3/7500
FVH (80°-90°)	103.2	0.5			G2/225
BL (0°-30°)	429.0	2.3	B1/500		
BM (30°-60°)	461.0	2.4	B1/1000		
BH (60°-80°)	522.9	2.8	B2/1000		G2/1000
BVH (80°-90°)	5.6	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°	2350.2	2350.2	2350.2	2350.2	2350.2	2350.2	2350.2	2350.2	2350.2	2350.2	2350.2
2.5°	2661.8	2658.9	2647.3	2626.9	2600.7	2591.9	2554.1	2501.7	2472.5	2440.5	2425.9
5°	2845.3	2830.7	2865.7	2851.1	2857.0	2787.1	2740.5	2702.6	2591.9	2548.2	2478.4
7.5°	2886.1	2900.6	2897.7	2921.0	2944.3	2970.5	2938.5	2883.2	2772.5	2708.4	2632.7
10°	2886.1	2880.2	2903.5	2935.6	3002.6	3060.8	3148.2	3075.4	2990.9	2915.2	2778.3
12.5°	2833.7	2824.9	2848.2	2915.2	3034.6	3154.0	3250.1	3320.0	3200.6	3139.4	2961.8
15°	2673.5	2664.7	2760.8	2880.2	3037.5	3232.6	3433.6	3547.2	3465.6	3369.5	3171.5
17.5°	2475.4	2487.1	2589.0	2787.1	3037.5	3270.5	3526.8	3774.3	3762.7	3640.4	3433.6
20°	2408.5	2417.2	2519.1	2661.8	2947.2	3296.7	3672.4	4021.9	4091.8	3946.1	3675.3
22.5°	2536.6	2527.9	2536.6	2624.0	2886.1	3273.4	3768.5	4304.4	4429.6	4316.0	3992.7
25°	2973.4	2967.6	2894.8	2760.8	2851.1	3221.0	3818.0	4490.7	4779.1	4674.2	4249.0
27.5°	3614.1	3590.8	3477.3	3197.7	3014.2	3253.0	3899.5	4671.3	5084.8	4965.4	4479.1
30°	4301.4	4246.1	4097.6	3748.1	3436.5	3372.4	3946.1	4805.3	5425.6	5274.1	4680.0
32.5°	4776.1	4849.0	4802.4	4447.1	3969.4	3649.1	4021.9	4974.2	5740.1	5641.1	5023.7
35°	5510.0	5594.5	5399.4	5084.8	4604.3	4088.8	4182.0	5111.1	6223.6	6057.6	5344.0
37.5°	6436.1	6500.2	6360.4	5763.4	5256.7	4630.5	4511.1	5396.5	6640.0	6561.4	5754.7
40°	6902.1	7210.8	7012.8	6474.0	5929.4	5387.7	5055.7	5731.4	7365.2	7301.1	6322.6
42.5°	7545.7	7700.1	7598.1	7199.2	6631.3	6197.3	5728.5	6383.7	8244.7	8244.7	7091.4
45°	8227.2	8233.0	8227.2	7901.0	7397.2	7173.0	6637.1	7202.1	9191.2	9296.0	8011.7
47.5°	8786.4	8961.1	8946.5	8751.4	8361.2	8276.7	7545.7	8134.0	10379.4	10562.9	8908.7
50°	9074.7	9269.8	9328.0	9430.0	9412.5	9590.2	8538.8	9214.5	11404.5	11855.9	10061.9
52.5°	8996.0	9010.6	9368.8	9770.7	10411.4	10909.4	9735.8	10440.5	12604.4	13049.9	10953.1
55°	8352.4	8297.1	9033.9	9494.0	10819.1	11716.1	11392.9	11969.5	13539.2	14217.8	11873.4
57.5°	6940.0	6954.5	7636.0	8570.9	10516.3	12036.5	13163.5	13967.3	14849.7	15534.1	13166.4
60°	4790.7	4773.2	5536.3	6616.7	8736.9	11439.5	14182.8	16556.3	16602.9	17572.7	15487.5
62.5°	2693.9	2699.7	3279.2	4202.4	6112.9	9348.4	14133.3	19305.5	19107.5	19957.9	18126.1
65°	1526.0	1563.9	1962.9	2490.0	3660.7	6276.0	12155.9	20400.5	21038.3	21795.5	19727.8
66°	1290.1	1316.4	1657.1	2056.1	2921.0	5090.7	10941.4	20188.0	21644.1	22220.7	19695.8
67.5°	998.9	1033.9	1319.3	1630.9	2143.4	3523.9	8806.7	19130.8	21754.8	22092.6	19139.5
70°	684.4	707.7	926.1	1237.7	1464.9	1802.7	5265.4	15816.6	19739.5	20024.9	16635.0
72.5°	480.5	492.2	649.4	937.8	1127.1	1030.9	2612.3	11253.1	15106.0	15662.3	12939.3
75°	346.6	358.2	445.6	672.7	879.5	675.6	1196.9	7187.5	9264.0	9700.8	7793.3
77.5°	250.5	265.0	302.9	433.9	637.8	474.7	588.3	3753.9	4368.4	4292.7	3352.0
80°	151.4	166.0	224.2	279.6	466.0	334.9	323.3	1566.8	1549.3	1470.7	1054.2
82.5°	69.9	81.5	119.4	189.3	326.2	233.0	154.4	559.2	489.3	448.5	297.1
85°	20.4	26.2	69.9	142.7	166.0	113.6	93.2	192.2	200.9	171.8	99.0
87.5°	0.0	2.9	32.0	34.9	49.5	37.9	34.9	49.5	93.2	75.7	32.0
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°	2350.2	2350.2	2350.2	2350.2	2350.2	2350.2	2350.2	2350.2	2350.2	2350.2	2350.2
2.5°	2373.5	2353.1	2303.6	2227.9	2160.9	2126.0	2076.5	2032.8	2009.5	2006.6	2003.7
5°	2431.8	2376.4	2257.0	2120.1	2018.2	1907.5	1831.8	1776.5	1724.1	1674.6	1703.7
7.5°	2510.4	2423.0	2227.9	2050.2	1828.9	1686.2	1552.2	1473.6	1427.0	1383.3	1377.5
10°	2632.7	2522.0	2207.5	1887.2	1633.8	1424.1	1287.2	1173.7	1109.6	1033.9	1063.0
12.5°	2798.7	2600.7	2131.8	1738.6	1412.5	1191.1	996.0	812.5	710.6	632.0	634.9
15°	2964.7	2705.5	2061.9	1558.1	1211.5	920.3	634.9	509.6	480.5	463.1	468.9
17.5°	3127.8	2790.0	1954.1	1374.6	981.4	585.4	463.1	436.8	422.3	404.8	404.8
20°	3325.8	2845.3	1820.2	1205.7	675.6	433.9	396.1	378.6	355.3	332.0	334.9
22.5°	3518.0	2891.9	1665.8	990.2	454.3	375.7	332.0	308.7	288.3	265.0	265.0
25°	3710.2	2906.5	1464.9	710.6	366.9	300.0	259.2	227.2	206.8	186.4	189.3
27.5°	3841.3	2816.2	1275.6	454.3	294.1	227.2	180.6	154.4	136.9	116.5	116.5
30°	3917.0	2650.2	1071.7	320.4	221.3	154.4	107.8	81.5	64.1	49.5	46.6
32.5°	3992.7	2516.2	841.6	244.6	145.6	81.5	40.8	14.6	0.0	0.0	0.0
35°	4144.2	2364.8	565.0	136.9	49.5	2.9	0.0	0.0	0.0	0.0	0.0
37.5°	4240.3	2155.1	259.2	20.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4482.0	2050.2	64.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4875.2	1977.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5306.2	1948.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5879.9	2026.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6485.7	2239.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7149.7	2440.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7729.2	2682.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8795.1	3253.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10708.5	4374.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	12863.6	5207.2	32.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13652.8	5186.8	55.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	13513.0	4901.4	55.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12787.8	4353.9	49.5	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10982.2	3596.7	49.5	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8372.8	2801.6	46.6	11.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	5052.8	1491.1	37.9	14.6	5.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2012.4	524.2	29.1	11.6	5.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	544.6	157.3	17.5	11.6	8.7	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	142.7	58.2	14.6	11.6	5.8	2.9	0.0	0.0	0.0	0.0	0.0
85°	55.3	23.3	11.6	8.7	8.7	5.8	2.9	0.0	0.0	0.0	0.0
87.5°	17.5	8.7	8.7	5.8	5.8	2.9	2.9	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)