

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: P481800

Luminaire Tested: **IFLD-S-SA6C-827-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481800
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-827-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

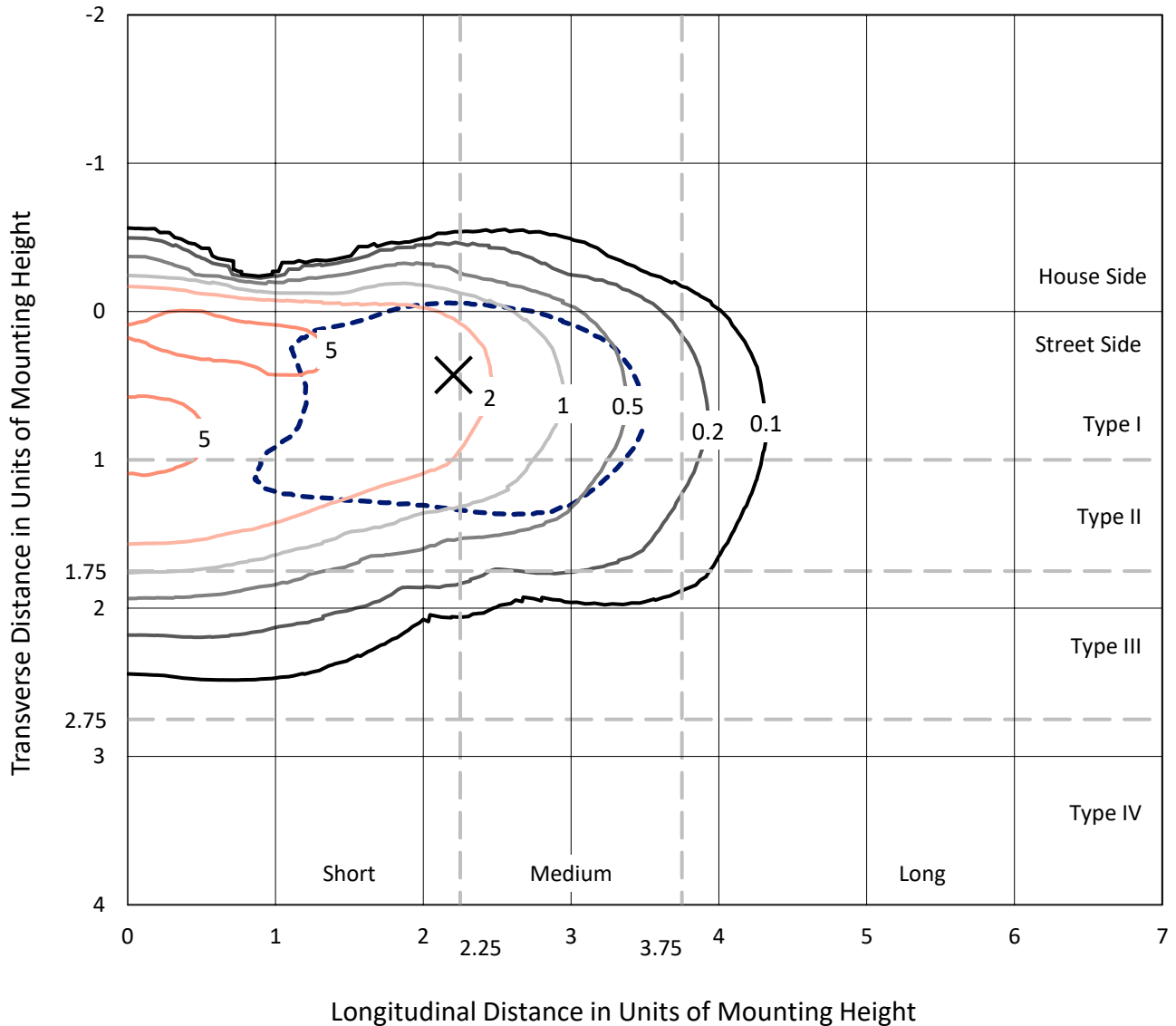
Lumens per Lamp: N/A
Luminaire Lumens: 21996.4 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

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

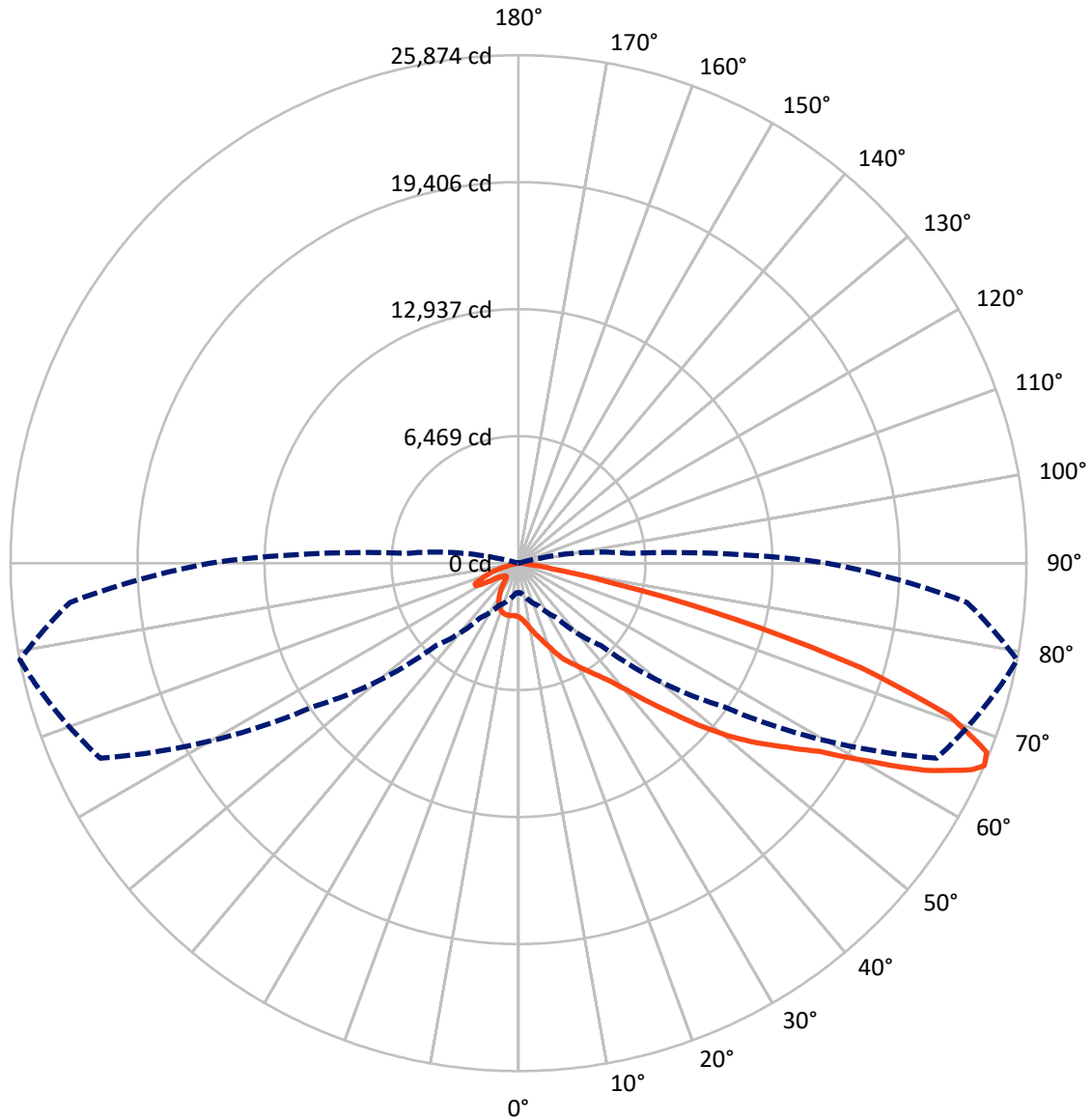
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	1651.6	0.0	1651.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	20344.8	0.0	20344.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	21996.4	0.0	21996.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.8	1.2
10°-20°	712.3	3.2
20°-30°	1183.3	5.4
30°-40°	2032.4	9.2
40°-50°	3682.0	16.7
50°-60°	5820.1	26.5
60°-70°	5922.4	26.9
70°-80°	2258.5	10.3
80°-90°	126.6	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°	21996.4	100.0
0°-180°	21996.4	100.0

Coefficient of Utilization



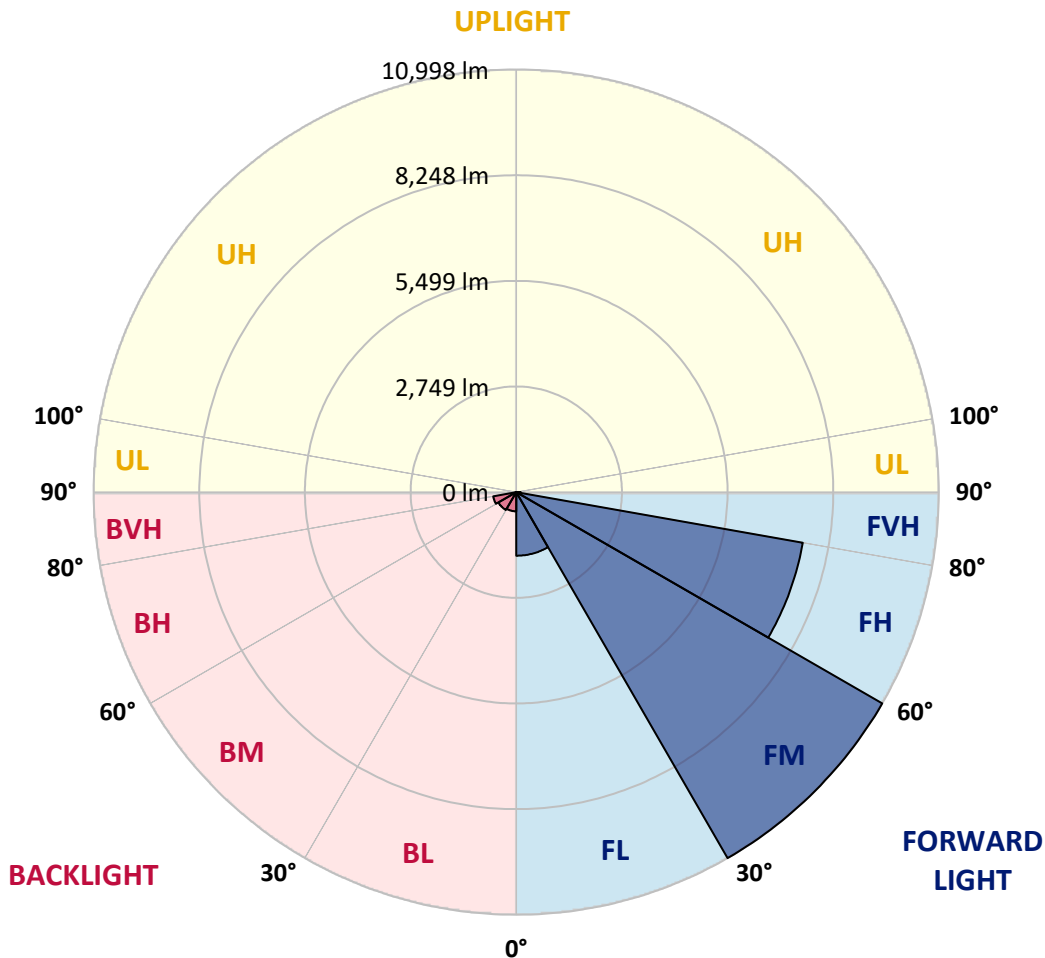
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1654.9	7.5			
FM (30°-60°)	10997.7	50.0			
FH (60°-80°)	7572.1	34.4			G4/12000
FVH (80°-90°)	120.1	0.5			G2/225
BL (0°-30°)	499.5	2.3	B1/500		
BM (30°-60°)	536.8	2.4	B1/1000		
BH (60°-80°)	608.9	2.8	B2/1000		G2/1000
BVH (80°-90°)	6.5	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°	2736.6	2736.6	2736.6	2736.6	2736.6	2736.6	2736.6	2736.6	2736.6	2736.6	2736.6
2.5°	3099.5	3096.1	3082.5	3058.8	3028.3	3018.1	2974.0	2913.0	2879.0	2841.7	2824.8
5°	3313.1	3296.2	3336.8	3319.9	3326.7	3245.3	3191.0	3146.9	3018.1	2967.2	2885.8
7.5°	3360.6	3377.5	3374.1	3401.3	3428.4	3458.9	3421.6	3357.2	3228.3	3153.7	3065.6
10°	3360.6	3353.8	3380.9	3418.2	3496.2	3564.1	3665.8	3581.0	3482.7	3394.5	3235.1
12.5°	3299.5	3289.4	3316.5	3394.5	3533.5	3672.6	3784.5	3865.9	3726.8	3655.6	3448.8
15°	3113.0	3102.9	3214.8	3353.8	3536.9	3764.1	3998.1	4130.4	4035.4	3923.5	3692.9
17.5°	2882.4	2896.0	3014.7	3245.3	3536.9	3808.2	4106.6	4394.9	4381.3	4238.9	3998.1
20°	2804.4	2814.6	2933.3	3099.5	3431.8	3838.7	4276.2	4683.1	4764.5	4594.9	4279.6
22.5°	2953.7	2943.5	2953.7	3055.4	3360.6	3811.6	4388.1	5012.1	5157.9	5025.6	4649.2
25°	3462.3	3455.5	3370.8	3214.8	3319.9	3750.6	4445.7	5229.1	5564.8	5442.7	4947.6
27.5°	4208.4	4181.2	4049.0	3723.4	3509.8	3787.9	4540.7	5439.3	5920.9	5781.8	5215.5
30°	5008.7	4944.2	4771.3	4364.4	4001.5	3926.9	4594.9	5595.3	6317.6	6141.3	5449.5
32.5°	5561.4	5646.2	5591.9	5178.2	4622.1	4249.1	4683.1	5792.0	6683.9	6568.6	5849.7
35°	6416.0	6514.3	6287.1	5920.9	5361.3	4761.1	4869.6	5951.4	7246.8	7053.5	6222.7
37.5°	7494.3	7568.9	7406.2	6711.0	6120.9	5391.9	5252.8	6283.7	7731.7	7640.2	6700.8
40°	8036.9	8396.4	8165.8	7538.4	6904.3	6273.5	5887.0	6673.7	8576.1	8501.5	7362.1
42.5°	8786.4	8966.1	8847.4	8382.8	7721.5	7216.3	6670.3	7433.3	9600.2	9600.2	8257.3
45°	9579.9	9586.7	9579.9	9200.1	8613.4	8352.3	7728.3	8386.2	10702.3	10824.4	9328.9
47.5°	10231.0	10434.4	10417.5	10190.3	9735.9	9637.5	8786.4	9471.4	12085.9	12299.5	10373.4
50°	10566.7	10793.9	10861.7	10980.4	10960.0	11166.9	9942.7	10729.5	13279.6	13805.2	11716.3
52.5°	10475.1	10492.1	10909.2	11377.2	12123.2	12703.1	11336.5	12157.1	14676.7	15195.5	12753.9
55°	9725.7	9661.3	10519.2	11055.0	12598.0	13642.4	13266.0	13937.4	15765.2	16555.4	13825.5
57.5°	8081.0	8098.0	8891.5	9980.0	12245.3	14015.4	15327.8	16263.7	17291.2	18088.1	15331.2
60°	5578.4	5558.0	6446.5	7704.6	10173.3	13320.3	16514.7	19278.4	19332.7	20461.9	18033.9
62.5°	3136.8	3143.6	3818.4	4893.4	7117.9	10885.4	16457.0	22479.6	22249.0	23239.2	21106.2
65°	1776.9	1821.0	2285.6	2899.4	4262.6	7307.8	14154.5	23754.7	24497.3	25379.0	22971.3
66°	1502.3	1532.8	1929.5	2394.1	3401.3	5927.6	12740.4	23507.1	25202.7	25874.1	22934.0
67.5°	1163.1	1203.8	1536.2	1899.0	2495.9	4103.2	10254.7	22276.2	25331.5	25724.9	22286.3
70°	796.9	824.0	1078.4	1441.2	1705.7	2099.1	6131.1	18417.1	22984.9	23317.2	19370.0
72.5°	559.5	573.1	756.2	1091.9	1312.4	1200.5	3041.8	13103.2	17589.7	18237.4	15066.7
75°	403.5	417.1	518.8	783.3	1024.1	786.7	1393.7	8369.2	10787.1	11295.8	9074.6
77.5°	291.6	308.6	352.7	505.3	742.7	552.7	685.0	4371.1	5086.7	4998.5	3903.2
80°	176.3	193.3	261.1	325.5	542.6	390.0	376.4	1824.4	1804.1	1712.5	1227.6
82.5°	81.4	95.0	139.0	220.4	379.8	271.3	179.7	651.1	569.7	522.2	345.9
85°	23.7	30.5	81.4	166.2	193.3	132.3	108.5	223.8	234.0	200.1	115.3
87.5°	0.0	3.4	37.3	40.7	57.6	44.1	40.7	57.6	108.5	88.2	37.3
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°	2736.6	2736.6	2736.6	2736.6	2736.6	2736.6	2736.6	2736.6	2736.6	2736.6	2736.6
2.5°	2763.7	2740.0	2682.4	2594.2	2516.2	2475.5	2417.9	2367.0	2339.9	2336.5	2333.1
5°	2831.6	2767.1	2628.1	2468.7	2350.0	2221.2	2133.0	2068.6	2007.5	1949.9	1983.8
7.5°	2923.1	2821.4	2594.2	2387.3	2129.6	1963.4	1807.5	1715.9	1661.6	1610.8	1604.0
10°	3065.6	2936.7	2570.5	2197.4	1902.4	1658.2	1498.9	1366.6	1292.0	1203.8	1237.8
12.5°	3258.9	3028.3	2482.3	2024.5	1644.7	1387.0	1159.8	946.1	827.4	735.9	739.3
15°	3452.1	3150.3	2400.9	1814.2	1410.7	1071.6	739.3	593.4	559.5	539.2	546.0
17.5°	3642.0	3248.7	2275.4	1600.6	1142.8	681.6	539.2	508.7	491.7	471.4	471.4
20°	3872.6	3313.1	2119.4	1403.9	786.7	505.3	461.2	440.8	413.7	386.6	390.0
22.5°	4096.5	3367.4	1939.7	1153.0	529.0	437.5	386.6	359.5	335.7	308.6	308.6
25°	4320.3	3384.3	1705.7	827.4	427.3	349.3	301.8	264.5	240.8	217.0	220.4
27.5°	4472.9	3279.2	1485.3	529.0	342.5	264.5	210.2	179.7	159.4	135.6	135.6
30°	4561.0	3085.9	1247.9	373.0	257.7	179.7	125.5	95.0	74.6	57.6	54.3
32.5°	4649.2	2929.9	980.0	284.9	169.6	95.0	47.5	17.0	0.0	0.0	0.0
35°	4825.5	2753.6	657.9	159.4	57.6	3.4	0.0	0.0	0.0	0.0	0.0
37.5°	4937.4	2509.4	301.8	23.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5218.9	2387.3	74.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5676.7	2302.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6178.6	2268.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6846.6	2360.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7552.0	2607.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8325.2	2841.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9000.0	3123.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10241.1	3787.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12469.1	5093.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	14978.5	6063.3	37.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	15897.5	6039.6	64.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	15734.7	5707.2	64.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	14890.3	5069.7	57.6	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	12787.9	4188.0	57.6	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9749.4	3262.2	54.3	13.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	5883.6	1736.2	44.1	17.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2343.3	610.4	33.9	13.6	6.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	634.1	183.1	20.3	13.6	10.2	3.4	0.0	0.0	0.0	0.0	0.0
82.5°	166.2	67.8	17.0	13.6	6.8	3.4	0.0	0.0	0.0	0.0	0.0
85°	64.4	27.1	13.6	10.2	10.2	6.8	3.4	0.0	0.0	0.0	0.0
87.5°	20.3	10.2	10.2	6.8	6.8	3.4	3.4	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)