

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: P482890

Luminaire Tested: **IFLD-S-SA6A-750-U-T3R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482890
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-750-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

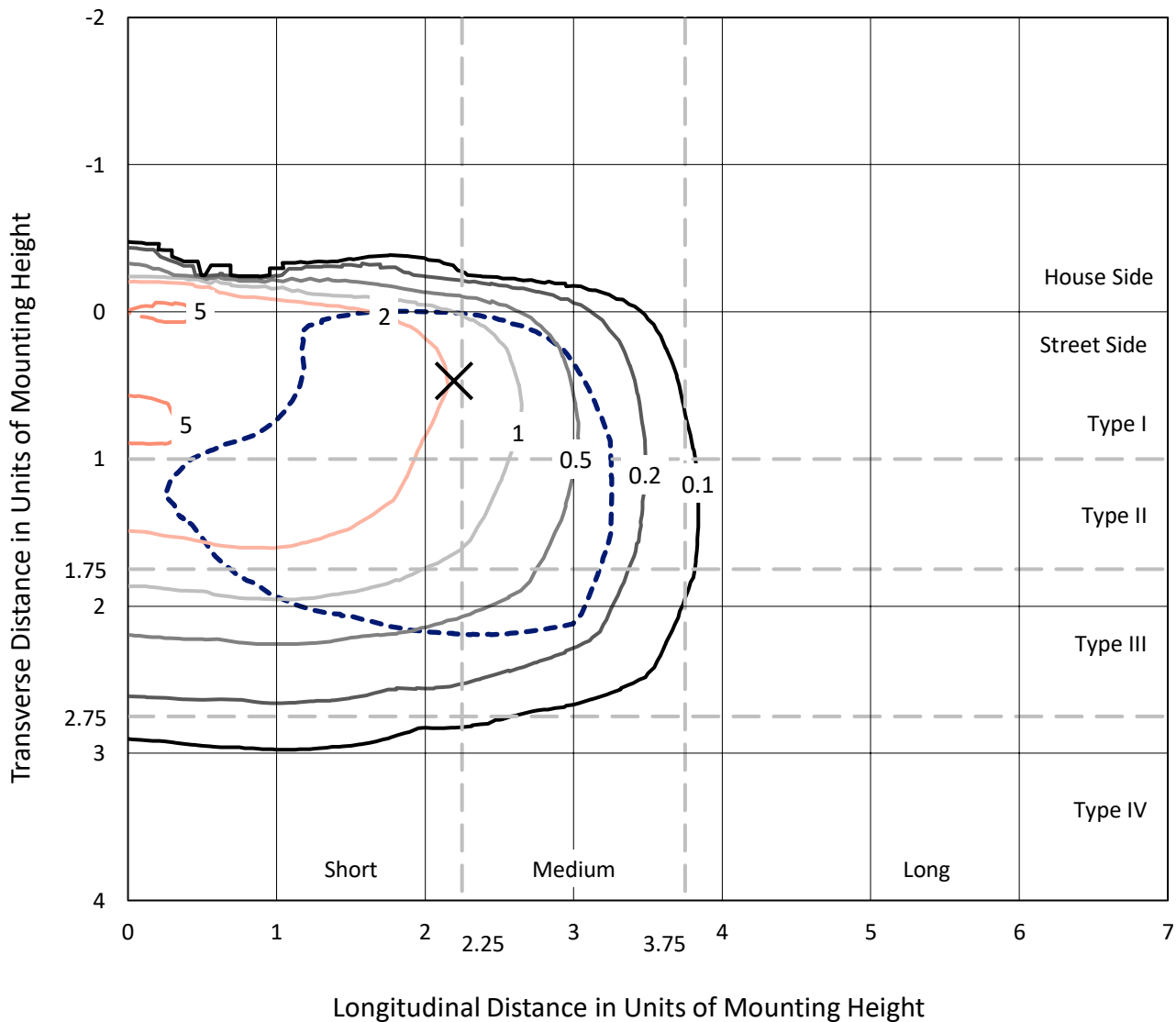
Lumens per Lamp: N/A
Luminaire Lumens: 19790 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 189.6
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

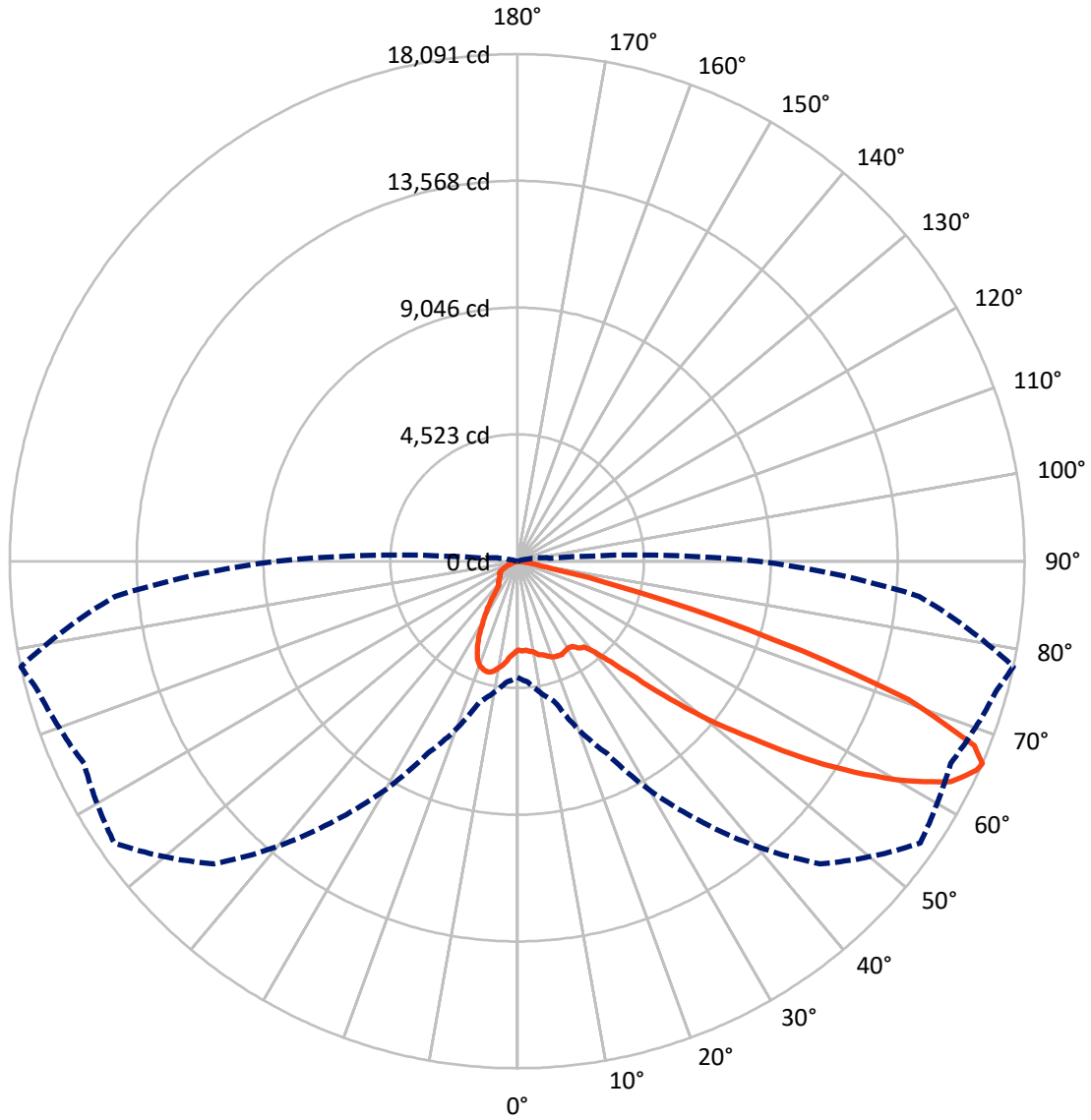
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1391.3	0.0	1391.3
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	18398.6	0.0	18398.6
	% Fixture	93.0	0.0	93.0
Total	Lumens	19790.0	0.0	19790.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.0	1.5
10°-20°	654.6	3.3
20°-30°	935.6	4.7
30°-40°	1601.5	8.1
40°-50°	2890.6	14.6
50°-60°	4943.3	25.0
60°-70°	6084.3	30.7
70°-80°	2300.2	11.6
80°-90°	89.9	0.5
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°	19790.0	100.0
0°-180°	19790.0	100.0

Coefficient of Utilization

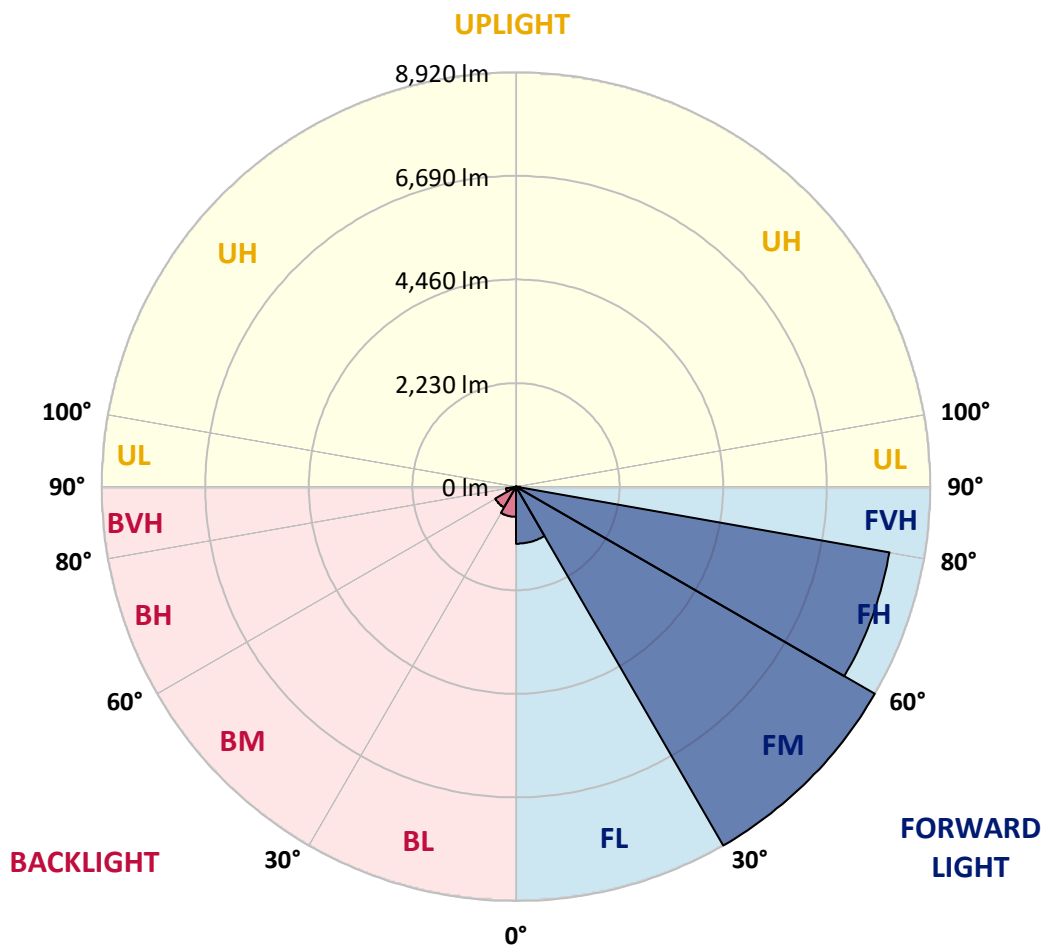


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1228.6	6.2			
FM (30°-60°)	8919.7	45.1			
FH (60°-80°)	8164.1	41.3			G4/12000
FVH (80°-90°)	86.2	0.4			G1/100
BL (0°-30°)	651.6	3.3	B2/1000		
BM (30°-60°)	515.7	2.6	B1/1000		
BH (60°-80°)	220.4	1.1	B1/500		G1/500
BVH (80°-90°)	3.6	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3169.7	3169.7	3169.7	3169.7	3169.7	3169.7	3169.7	3169.7	3169.7	3169.7	3169.7
2.5°	2915.5	2888.6	2915.5	2954.4	2975.3	2993.3	3056.1	3109.9	3166.7	3205.6	3193.6
5°	2703.2	2754.1	2760.0	2772.0	2804.9	2912.5	2948.4	3041.1	3181.7	3193.6	3247.5
7.5°	2535.8	2520.8	2559.7	2637.4	2721.2	2784.0	2888.6	3050.1	3196.6	3247.5	3352.1
10°	2293.6	2323.5	2365.3	2443.1	2544.7	2700.2	2885.6	3065.0	3274.4	3292.3	3486.7
12.5°	2162.0	2132.1	2197.9	2278.6	2452.0	2595.6	2822.8	3038.1	3322.2	3420.9	3645.2
15°	2054.3	2069.3	2132.1	2185.9	2329.4	2511.8	2778.0	3103.9	3403.0	3471.7	3812.6
17.5°	2009.5	2000.5	2048.3	2102.2	2278.6	2484.9	2760.0	3106.9	3474.7	3564.4	3926.3
20°	2030.4	2048.3	2033.4	2084.2	2194.9	2404.2	2787.0	3163.7	3528.5	3651.1	4048.9
22.5°	2359.3	2335.4	2215.8	2120.1	2126.1	2371.3	2766.0	3199.6	3576.4	3675.1	4132.6
25°	3217.6	3089.0	2792.9	2425.1	2182.9	2281.6	2742.1	3187.6	3567.4	3690.0	4183.4
27.5°	4081.7	3971.1	3681.0	3109.9	2413.2	2245.7	2658.4	3196.6	3522.6	3636.2	4099.7
30°	4993.8	5053.6	4623.0	3944.2	3017.2	2443.1	2604.5	3148.8	3492.7	3588.3	4117.6
32.5°	5929.7	5905.8	5645.7	4910.1	3881.4	2879.7	2691.3	3196.6	3531.5	3624.2	4222.3
35°	6662.4	6578.6	6315.5	5651.6	4596.1	3537.5	2990.3	3423.9	3702.0	3812.6	4371.8
37.5°	7024.2	7060.1	6907.6	6330.4	5379.5	4147.5	3364.1	3423.9	3755.8	3884.4	4614.0
40°	7305.3	7412.9	7356.1	7170.7	6157.0	4835.3	3776.7	3636.2	4027.9	4270.1	5068.5
42.5°	7643.2	7592.3	7927.3	7756.8	7173.7	5702.5	4500.4	4141.6	4670.8	4904.1	5750.3
45°	7822.6	8017.0	8271.1	8489.4	8115.6	6785.0	5445.3	5035.6	5654.6	5950.7	6764.0
47.5°	8283.1	8360.9	8773.5	9048.6	8881.2	8023.0	6880.7	6342.4	6892.6	7359.1	7924.3
50°	8552.2	8447.6	9024.7	9443.3	9539.0	9048.6	8166.5	7747.8	8363.8	8958.9	9009.7
52.5°	8316.0	8615.0	9192.2	9942.7	10208.9	9963.6	9676.6	9494.2	9927.8	10478.0	10232.8
55°	7487.7	7691.0	9096.5	10489.9	11348.2	11234.5	11500.7	11381.0	11817.6	12400.7	11662.1
57.5°	6820.9	7075.0	8310.0	10774.0	12409.7	12744.6	13079.5	13004.8	13531.1	14203.9	12873.2
60°	6405.2	6551.7	7741.9	10702.3	13037.7	14305.6	15062.1	14535.8	15394.0	15908.3	13821.1
62.5°	5684.5	5777.2	6913.6	9751.3	13226.1	15409.0	16691.8	15977.1	16721.7	17349.7	14502.9
65°	4557.2	4808.4	5747.3	8328.0	11982.1	15612.3	17708.5	16868.2	17588.9	18001.6	14709.2
66°	4147.5	4329.9	5191.1	7574.4	11273.4	15274.4	17538.1	17053.6	17714.5	18091.3	14392.3
67.5°	3441.8	3600.3	4285.1	6500.9	9823.1	14529.8	17657.7	16928.0	17810.2	17579.9	13967.6
70°	2278.6	2380.3	2930.5	4395.7	6841.8	11886.4	16377.8	15947.2	15657.2	14793.0	10920.5
72.5°	1064.5	1211.1	1830.1	2664.3	4013.0	8316.0	13354.6	12777.5	10980.3	9598.8	6889.6
75°	481.4	547.2	1004.7	1528.0	1800.2	4309.0	8615.0	7780.7	5466.3	4539.3	3017.2
77.5°	260.2	296.0	490.4	726.6	654.9	1510.1	4264.2	3546.5	1722.4	1261.9	876.2
80°	200.3	236.2	409.7	415.7	242.2	391.7	1584.9	1097.4	430.6	325.9	209.3
82.5°	104.7	149.5	323.0	269.1	122.6	158.5	490.4	305.0	134.6	107.7	89.7
85°	41.9	65.8	182.4	179.4	71.8	53.8	137.6	92.7	53.8	44.9	41.9
87.5°	3.0	3.0	98.7	68.8	44.9	15.0	20.9	20.9	26.9	23.9	29.9
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°	3169.7	3169.7	3169.7	3169.7	3169.7	3169.7	3169.7	3169.7	3169.7	3169.7	3169.7
2.5°	3247.5	3283.3	3289.3	3388.0	3408.9	3388.0	3441.8	3432.9	3456.8	3438.8	3405.9
5°	3322.2	3373.0	3471.7	3546.5	3546.5	3486.7	3438.8	3376.0	3283.3	3259.4	3241.5
7.5°	3450.8	3612.3	3702.0	3654.1	3558.4	3334.2	3023.2	2795.9	2604.5	2532.8	2499.9
10°	3678.1	3767.8	3872.4	3678.1	3280.3	2804.9	2281.6	1937.7	1668.6	1608.8	1563.9
12.5°	3824.6	3968.1	4027.9	3546.5	2766.0	2057.3	1489.2	1100.4	912.0	768.5	744.6
15°	4016.0	4180.4	4057.8	3190.6	2179.9	1348.6	771.5	481.4	391.7	367.8	367.8
17.5°	4147.5	4327.0	3935.2	2748.1	1546.0	717.7	382.8	331.9	325.9	328.9	323.0
20°	4377.8	4485.4	3749.8	2233.7	924.0	367.8	308.0	296.0	290.1	299.0	293.0
22.5°	4464.5	4563.2	3447.8	1617.7	415.7	245.2	230.3	221.3	227.3	224.3	221.3
25°	4458.5	4509.4	2951.4	927.0	122.6	95.7	86.7	86.7	80.7	83.7	80.7
27.5°	4503.4	4377.8	2395.2	275.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	4527.3	4165.5	1704.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4539.3	4054.8	1097.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	4632.0	3833.6	469.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4694.8	3549.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4954.9	3459.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5292.8	3292.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5762.3	3044.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6384.3	2897.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6847.8	2667.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7436.9	2529.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8136.6	2535.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8773.5	2493.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9099.5	2132.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9030.7	1725.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8791.5	1354.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8627.0	1199.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8127.6	959.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6468.0	657.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4114.6	403.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1895.8	185.4	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	595.1	113.6	23.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	155.5	71.8	23.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	80.7	50.8	20.9	9.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	50.8	20.9	9.0	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	44.9	12.0	6.0	6.0	3.0	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)