

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: P478821

Luminaire Tested: **IFLD-S-SA3C-727-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478821  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-727-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

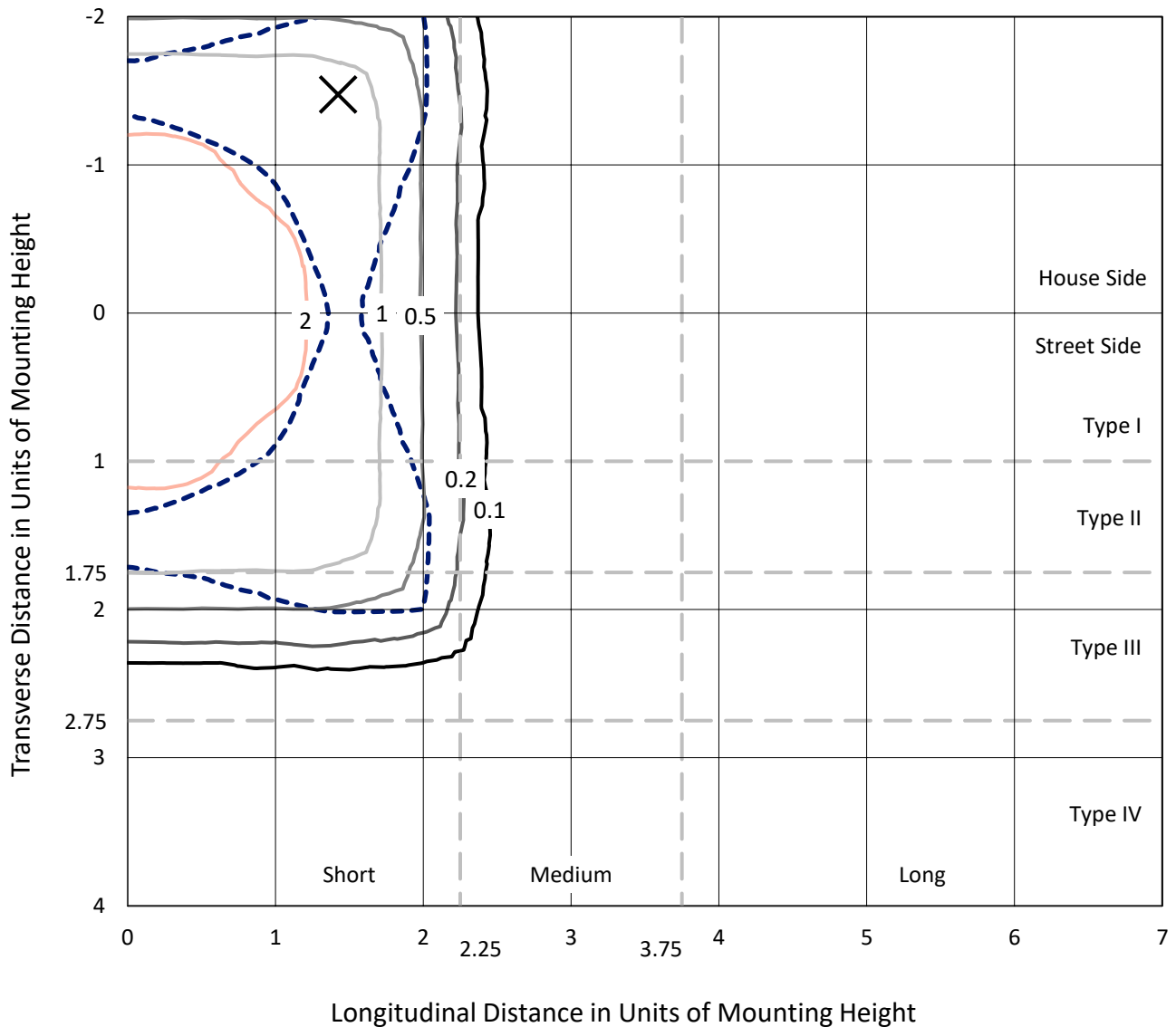
Lumens per Lamp: N/A  
Luminaire Lumens: 17668 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 160.8  
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

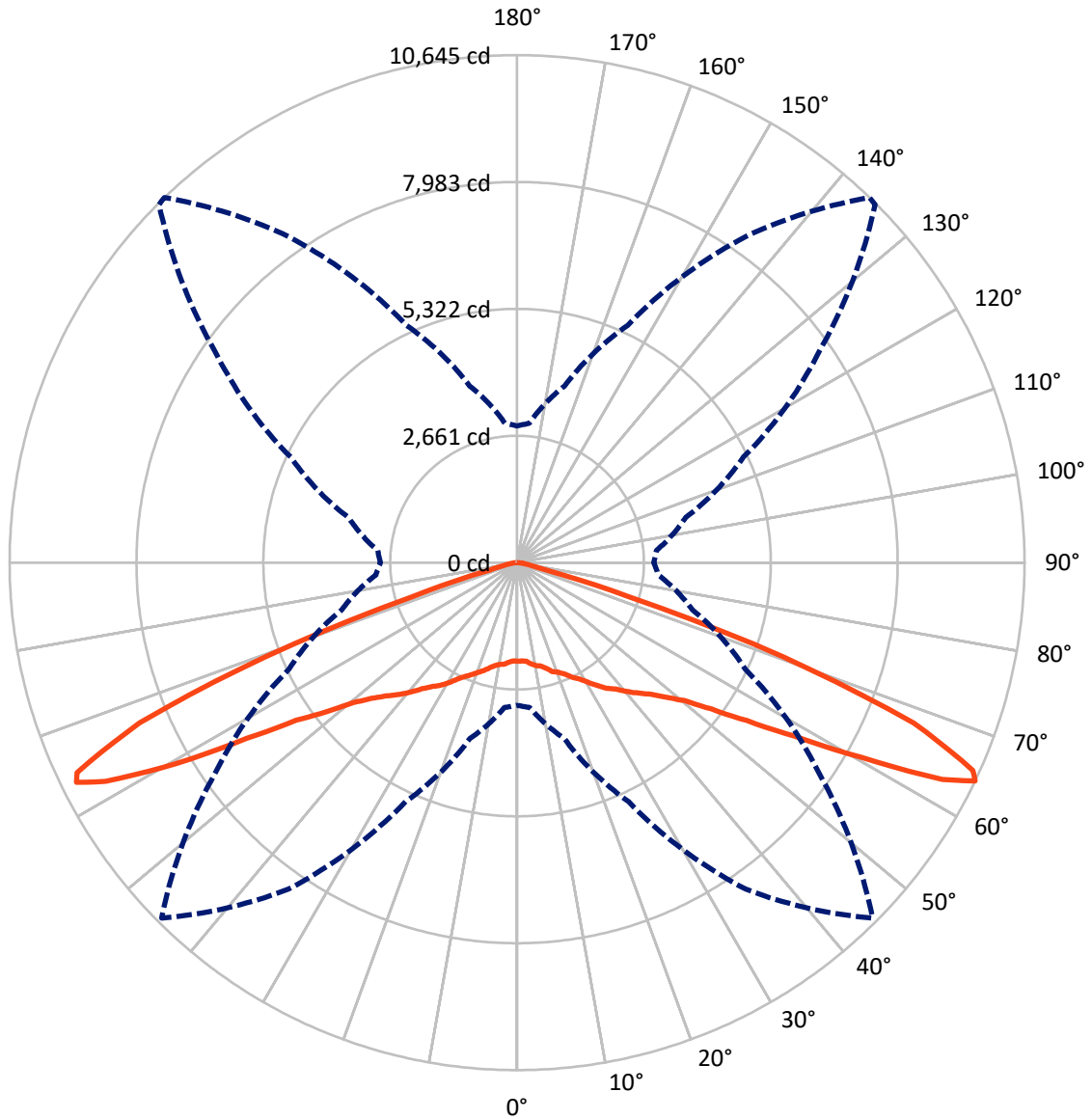
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8842.4	0.0	8842.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8825.6	0.0	8825.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17668.0	0.0	17668.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.3	1.2
10°-20°	655.1	3.7
20°-30°	1231.2	7.0
30°-40°	2030.4	11.5
40°-50°	3175.4	18.0
50°-60°	5130.7	29.0
60°-70°	4619.8	26.1
70°-80°	547.2	3.1
80°-90°	74.9	0.4
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°	17668.0	100.0
0°-180°	17668.0	100.0

**Coefficient of Utilization**



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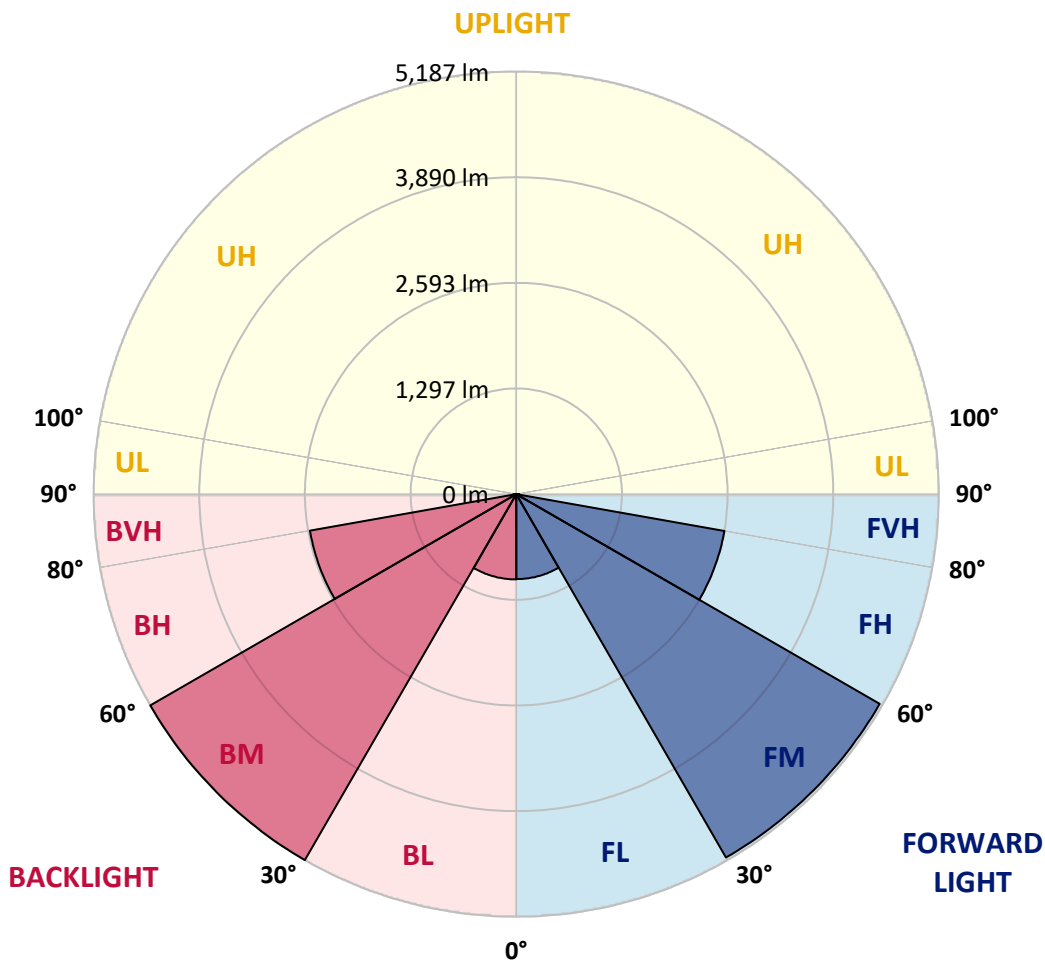
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1042.7	5.9			
FM (30°-60°)	5149.7	29.1			
FH (60°-80°)	2594.7	14.7			G2/5000
FVH (80°-90°)	38.4	0.2			G1/100
BL (0°-30°)	1046.8	5.9	B3/2500		
BM (30°-60°)	5186.8	29.4	B4/8500		
BH (60°-80°)	2572.3	14.6	B4/5000		G2/5000
BVH (80°-90°)	36.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2068.6	2068.6	2068.6	2068.6	2068.6	2068.6	2068.6	2068.6	2068.6	2068.6	2068.6
2.5°	2044.2	2048.3	2084.8	2070.6	2082.7	2060.5	2076.7	2111.1	2070.6	2101.0	2111.1
5°	2066.5	2072.6	2072.6	2086.8	2094.9	2090.8	2101.0	2086.8	2125.3	2109.1	2133.4
7.5°	2147.6	2137.4	2121.2	2133.4	2135.4	2145.5	2155.7	2173.9	2167.8	2153.6	2178.0
10°	2161.8	2153.6	2178.0	2180.0	2169.9	2161.8	2171.9	2171.9	2190.1	2194.2	2194.2
12.5°	2186.1	2194.2	2192.1	2208.3	2210.4	2204.3	2220.5	2250.9	2242.8	2248.9	2234.7
15°	2279.3	2269.1	2267.1	2283.3	2309.6	2271.2	2299.5	2297.5	2289.4	2301.5	2269.1
17.5°	2360.3	2327.9	2342.1	2368.4	2358.3	2366.4	2402.8	2370.4	2378.5	2364.4	2354.2
20°	2431.2	2404.9	2406.9	2417.0	2417.0	2441.3	2455.5	2443.4	2435.3	2433.2	2437.3
22.5°	2510.2	2479.8	2481.9	2524.4	2538.6	2530.5	2520.4	2540.6	2544.7	2528.5	2546.7
25°	2569.0	2601.4	2611.5	2631.8	2601.4	2623.7	2615.6	2654.1	2678.4	2646.0	2668.3
27.5°	2723.0	2708.8	2735.1	2733.1	2757.4	2735.1	2749.3	2761.4	2771.6	2773.6	2763.5
30°	2860.7	2866.8	2840.5	2911.4	2854.6	2891.1	2915.4	2921.5	2933.7	2933.7	2903.3
32.5°	3006.6	2994.4	3037.0	3020.8	3010.6	3039.0	3012.7	3095.7	3047.1	3075.5	3041.0
35°	3170.7	3170.7	3186.9	3231.5	3170.7	3152.5	3201.1	3235.5	3235.5	3184.9	3197.0
37.5°	3355.1	3338.9	3359.1	3415.9	3369.3	3308.5	3397.6	3411.8	3401.7	3387.5	3363.2
40°	3484.7	3480.7	3521.2	3596.2	3529.3	3517.2	3533.4	3571.9	3584.0	3598.2	3565.8
42.5°	3703.5	3721.8	3839.3	3821.1	3766.4	3723.8	3719.8	3863.6	3829.2	3792.7	3774.5
45°	4027.7	4011.5	4072.3	4074.3	4003.4	3910.2	3930.5	4062.1	4120.9	4039.9	4070.3
47.5°	4285.0	4293.1	4335.7	4422.8	4258.7	4161.4	4236.4	4449.1	4430.9	4400.5	4428.9
50°	4629.4	4665.9	4799.6	4769.2	4623.4	4503.8	4667.9	4868.5	4890.8	4779.4	4759.1
52.5°	5105.5	5162.3	5235.2	5259.5	5119.7	5077.2	5087.3	5336.5	5281.8	5174.4	5105.5
55°	5522.9	5549.2	5683.0	5883.5	5873.4	5668.8	5786.3	5879.5	5656.6	5435.8	5454.0
57.5°	5701.2	5713.3	6086.1	6487.3	6726.3	6772.9	6639.2	6325.2	5794.4	5368.9	5342.6
60°	5257.5	5373.0	5822.7	6728.4	7820.4	8359.3	7469.9	6375.8	5472.2	4955.6	4917.1
62.5°	4201.9	4208.0	4876.6	6250.2	8501.1	9913.3	7788.0	5899.7	4613.2	4027.7	3873.7
64°	2992.4	3049.1	3817.0	5533.0	8359.3	10545.4	7749.5	5277.8	3802.8	2972.2	2864.8
65°	2147.6	2226.6	2968.1	4803.7	8027.0	10470.4	7634.0	4742.9	3075.5	2269.1	2159.7
67.5°	790.1	822.6	1165.0	2402.8	5764.0	8922.5	6049.7	2607.5	1351.3	962.4	865.1
70°	366.7	368.7	431.5	794.2	2520.4	5966.6	2887.1	978.6	508.5	403.2	374.8
72.5°	269.5	275.5	301.9	366.7	741.5	2526.4	948.2	401.1	297.8	263.4	257.3
75°	218.8	222.9	231.0	265.4	342.4	676.7	384.9	277.6	237.0	212.7	204.6
77.5°	168.2	168.2	186.4	202.6	226.9	316.1	255.3	220.8	192.5	168.2	162.1
80°	121.6	123.6	145.9	158.0	154.0	208.7	184.4	182.3	158.0	131.7	121.6
82.5°	70.9	77.0	105.4	113.5	109.4	123.6	133.7	141.8	123.6	91.2	83.1
85°	40.5	42.5	60.8	62.8	62.8	58.8	77.0	85.1	83.1	56.7	50.7
87.5°	12.2	12.2	16.2	16.2	18.2	20.3	30.4	36.5	40.5	28.4	26.3
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):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	2068.6	2068.6	2068.6	2068.6	2068.6	2068.6	2068.6	2068.6	2068.6	2068.6	2068.6
2.5°	2101.0	2070.6	2072.6	2080.7	2054.4	2064.5	2094.9	2072.6	2066.5	2054.4	2048.3
5°	2090.8	2123.3	2111.1	2115.2	2109.1	2080.7	2076.7	2094.9	2105.0	2086.8	2123.3
7.5°	2161.8	2147.6	2131.4	2137.4	2123.3	2147.6	2163.8	2127.3	2145.5	2135.4	2115.2
10°	2202.3	2175.9	2188.1	2184.0	2173.9	2198.2	2182.0	2178.0	2161.8	2139.5	2171.9
12.5°	2216.5	2246.8	2267.1	2232.7	2238.7	2226.6	2216.5	2216.5	2198.2	2192.1	2198.2
15°	2279.3	2305.6	2297.5	2323.8	2289.4	2301.5	2313.7	2283.3	2299.5	2254.9	2289.4
17.5°	2394.7	2372.5	2400.8	2366.4	2378.5	2402.8	2364.4	2364.4	2376.5	2352.2	2321.8
20°	2467.7	2457.5	2447.4	2449.4	2429.2	2451.5	2439.3	2433.2	2415.0	2423.1	2439.3
22.5°	2536.6	2522.4	2526.4	2532.5	2546.7	2536.6	2530.5	2536.6	2492.0	2532.5	2475.8
25°	2621.7	2660.1	2648.0	2674.3	2633.8	2660.1	2658.1	2619.6	2643.9	2627.7	2615.6
27.5°	2763.5	2743.2	2761.4	2729.0	2757.4	2759.4	2735.1	2799.9	2771.6	2767.5	2759.4
30°	2945.8	2931.6	2919.5	2901.2	2923.5	2905.3	2925.6	2931.6	2905.3	2885.0	2846.5
32.5°	3049.1	3087.6	3101.8	3057.2	3059.3	3069.4	3051.2	3032.9	3049.1	3055.2	3049.1
35°	3195.0	3231.5	3239.6	3205.1	3186.9	3237.6	3201.1	3261.9	3209.2	3211.2	3156.5
37.5°	3365.2	3375.3	3444.2	3405.7	3389.5	3365.2	3432.1	3424.0	3436.1	3338.9	3387.5
40°	3557.7	3594.1	3632.6	3535.4	3533.4	3555.6	3551.6	3598.2	3575.9	3561.7	3527.3
42.5°	3768.4	3845.4	3851.4	3786.6	3746.1	3742.0	3762.3	3865.6	3867.7	3774.5	3733.9
45°	4048.0	4133.1	4110.8	3985.2	3940.6	3934.5	4033.8	4078.4	4116.8	4080.4	4045.9
47.5°	4396.4	4453.2	4437.0	4321.5	4177.6	4218.2	4315.4	4455.2	4414.7	4366.0	4325.5
50°	4769.2	4836.1	4801.6	4686.2	4548.4	4548.4	4667.9	4846.2	4834.1	4738.8	4702.4
52.5°	5182.5	5279.8	5358.8	5194.7	5079.2	5097.4	5285.9	5350.7	5320.3	5253.4	5223.1
55°	5490.5	5676.9	5839.0	5847.1	5853.1	5851.1	5899.7	5964.6	5747.8	5640.4	5531.0
57.5°	5415.5	5768.0	6323.2	6700.0	6811.4	6870.2	6854.0	6554.1	6041.6	5689.0	5725.5
60°	4880.7	5456.0	6351.5	7561.1	8371.5	8290.4	7994.6	6809.4	5879.5	5283.8	5208.9
62.5°	3894.0	4586.9	5875.4	7804.2	10036.8	10012.5	8464.7	6219.8	4898.9	4145.2	4098.6
64°	2933.7	3663.0	5241.3	7741.4	10620.3	10644.6	8345.1	5494.5	3833.2	2933.7	2862.8
65°	2244.8	2921.5	4619.3	7611.7	10494.7	10508.9	8012.9	4744.9	2913.4	2082.7	2005.7
67.5°	893.5	1244.0	2506.2	5772.1	9011.7	8973.2	5717.4	2295.5	1114.3	725.3	711.1
70°	380.9	474.1	879.3	2735.1	6033.5	5922.0	2461.6	745.6	413.3	346.4	344.4
72.5°	261.4	289.7	376.8	844.8	2508.2	2449.4	701.0	346.4	281.6	259.3	259.3
75°	210.7	231.0	273.5	354.6	664.5	640.2	330.2	255.3	224.9	208.7	206.7
77.5°	164.1	184.4	214.8	245.1	303.9	301.9	220.8	192.5	174.2	162.1	158.0
80°	129.7	149.9	170.2	174.2	198.5	194.5	149.9	152.0	141.8	117.5	115.5
82.5°	89.1	121.6	135.7	123.6	117.5	117.5	107.4	107.4	99.3	72.9	66.9
85°	54.7	81.0	85.1	72.9	54.7	54.7	58.8	56.7	52.7	38.5	36.5
87.5°	28.4	38.5	34.4	28.4	18.2	18.2	16.2	12.2	12.2	10.1	10.1
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)