

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: P481335

Luminaire Tested: **IFLD-M-SA4A-750-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481335  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-750-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

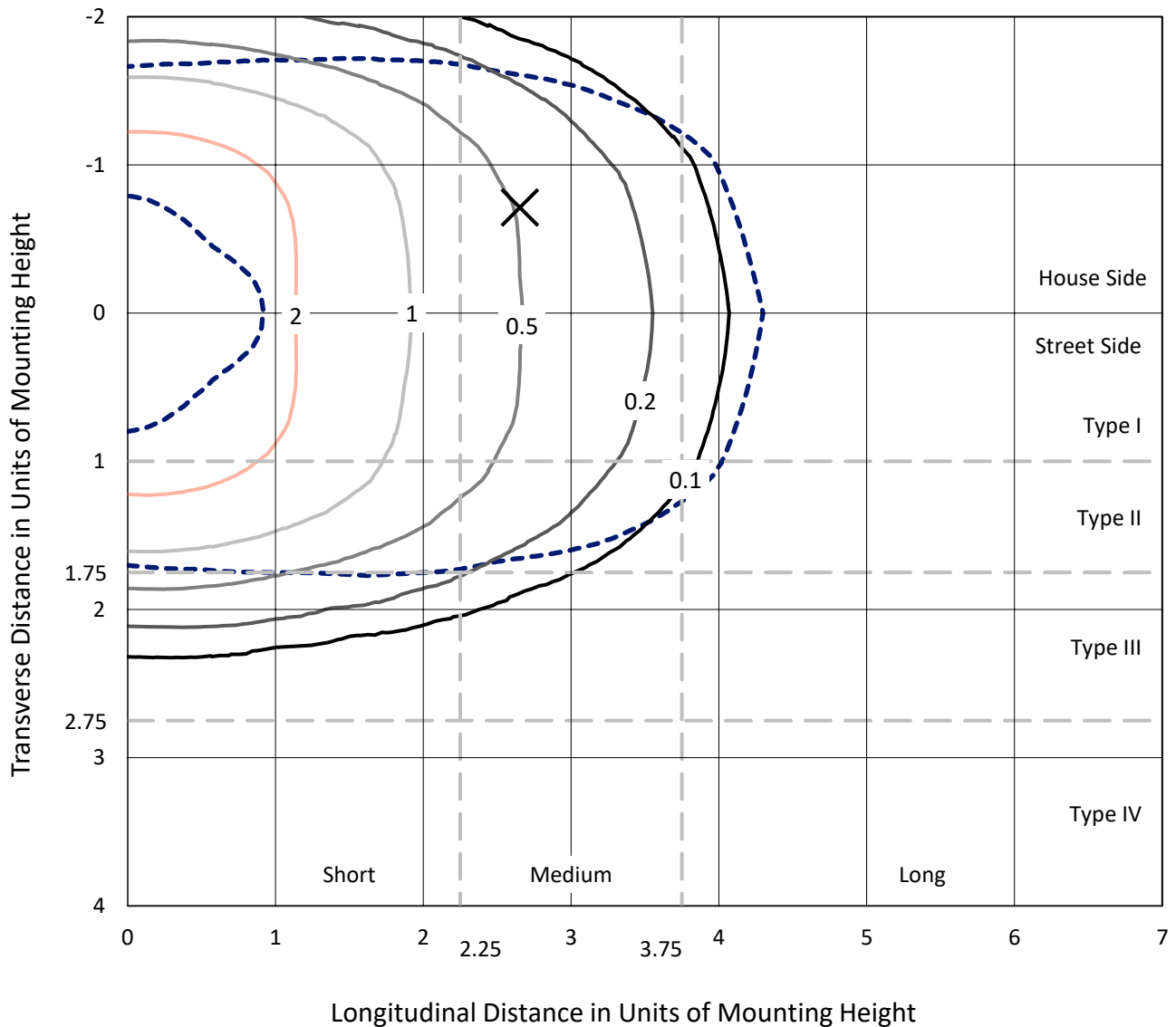
Lumens per Lamp: N/A  
Luminaire Lumens: 19457.5 lumens  
Efficiency: N/A  
Efficacy: 151.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 128.6  
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

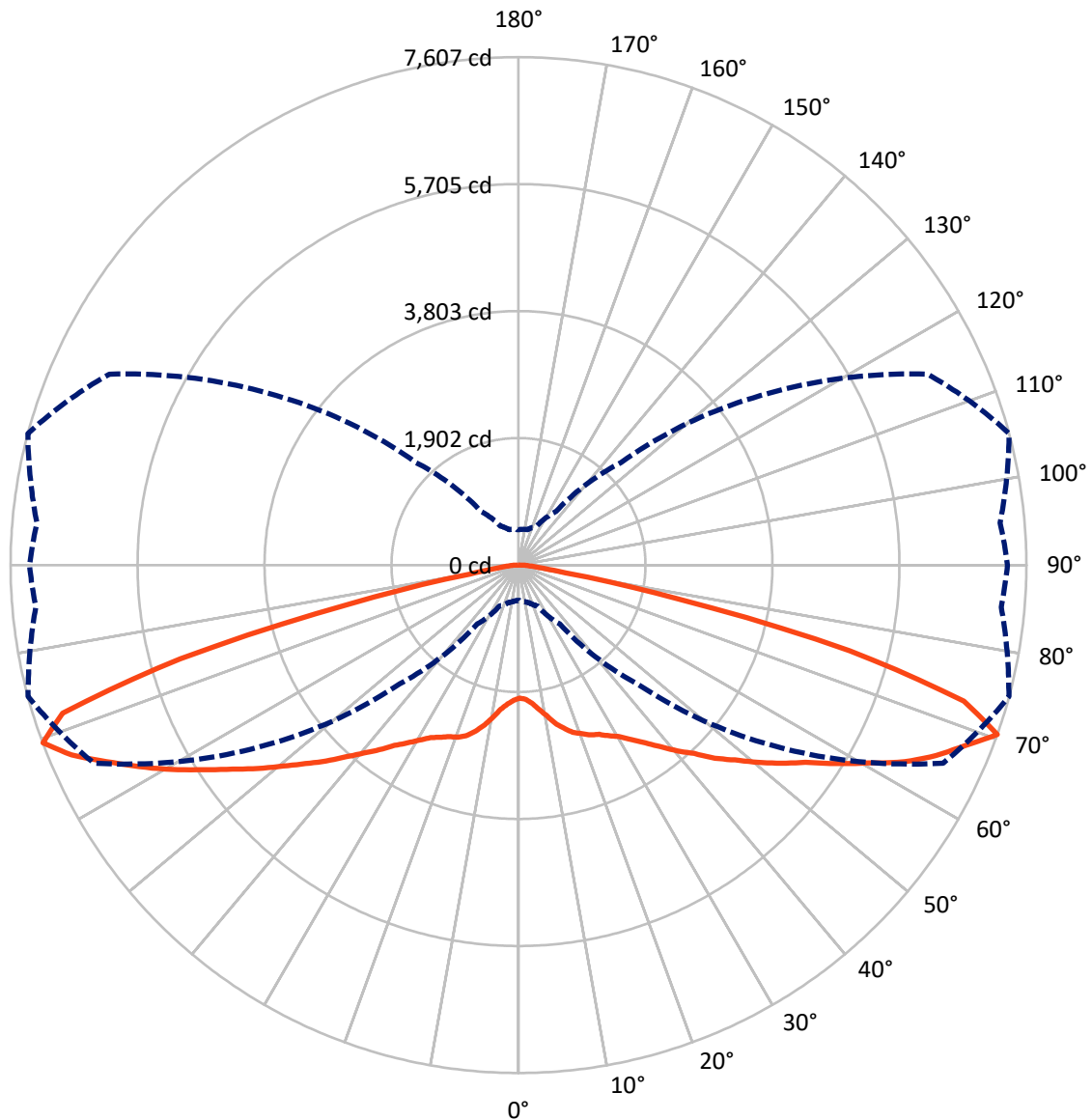
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9659.5	0.0	9659.5
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	9798.0	0.0	9798.0
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	19457.5	0.0	19457.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.3	1.0
10°-20°	675.2	3.5
20°-30°	1307.5	6.7
30°-40°	2211.5	11.4
40°-50°	3528.0	18.1
50°-60°	4829.1	24.8
60°-70°	4551.8	23.4
70°-80°	2005.2	10.3
80°-90°	150.9	0.8
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°	19457.5	100.0
0°-180°	19457.5	100.0

**Coefficient of Utilization**



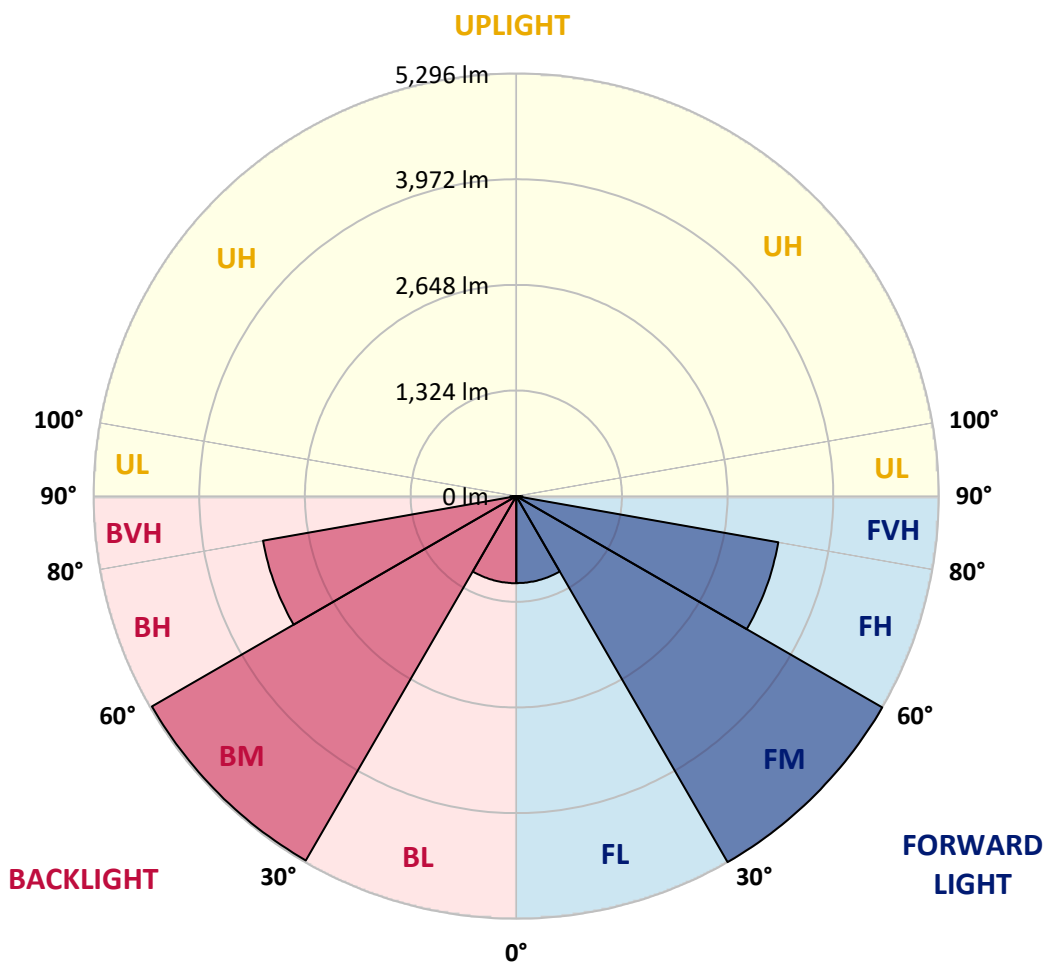
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1089.9	5.6			
FM (30°-60°)	5296.2	27.2			
FH (60°-80°)	3334.8	17.1			G2/5000
FVH (80°-90°)	77.1	0.4			G1/100
BL (0°-30°)	1091.1	5.6	B3/2500		
BM (30°-60°)	5272.5	27.1	B4/8500		
BH (60°-80°)	3222.1	16.6	B4/5000		G4/5000
BVH (80°-90°)	73.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4
2.5°	1979.8	1979.8	1977.7	1988.2	1998.7	2002.9	2011.3	2013.4	2026.0	2015.5	2036.5
5°	1973.6	1971.5	1988.2	2013.4	2013.4	2040.7	2057.4	2080.5	2086.8	2099.4	2103.6
7.5°	2017.6	2013.4	2005.0	2032.3	2055.3	2097.3	2120.4	2160.2	2174.9	2191.7	2210.5
10°	2044.9	2044.9	2036.5	2084.7	2105.7	2162.3	2212.6	2252.5	2309.1	2328.0	2330.1
12.5°	2049.1	2055.3	2080.5	2143.4	2202.2	2275.6	2313.3	2388.8	2445.4	2481.1	2493.7
15°	2112.0	2099.4	2126.7	2212.6	2298.6	2363.6	2430.8	2485.3	2567.1	2613.2	2642.6
17.5°	2168.6	2156.0	2206.4	2309.1	2397.2	2497.9	2556.6	2615.3	2674.0	2716.0	2718.1
20°	2258.8	2269.3	2313.3	2424.5	2539.8	2627.9	2695.0	2705.5	2734.9	2795.7	2785.2
22.5°	2369.9	2361.6	2453.8	2575.5	2701.3	2774.7	2812.5	2785.2	2770.5	2835.5	2850.2
25°	2481.1	2506.3	2590.2	2703.4	2854.4	2953.0	2963.5	2888.0	2833.4	2856.5	2850.2
27.5°	2651.0	2655.2	2743.3	2877.5	3030.6	3116.6	3110.3	3003.3	2898.5	2900.6	2904.8
30°	2869.1	2848.1	2944.6	3066.2	3217.2	3294.8	3305.3	3152.2	3011.7	2969.8	2980.3
32.5°	3078.8	3104.0	3187.9	3326.3	3437.5	3481.5	3458.4	3322.1	3139.6	3083.0	3089.3
35°	3347.3	3343.1	3458.4	3575.9	3659.8	3668.2	3649.3	3450.0	3278.1	3204.7	3175.3
37.5°	3634.6	3672.4	3747.9	3844.3	3932.4	3936.6	3833.9	3674.5	3462.6	3341.0	3376.6
40°	3955.5	3997.4	4052.0	4192.5	4257.5	4190.4	4085.5	3869.5	3649.3	3542.3	3559.1
42.5°	4238.6	4257.5	4368.7	4534.3	4565.8	4536.4	4381.2	4119.1	3863.2	3745.8	3754.2
45°	4498.7	4523.9	4668.6	4817.5	4890.9	4840.6	4660.2	4410.6	4112.8	4012.1	3972.3
47.5°	4737.8	4788.1	4928.6	5081.7	5195.0	5199.2	4976.9	4674.9	4360.3	4228.1	4226.0
50°	4899.3	4972.7	5111.1	5285.2	5450.9	5515.9	5293.6	4968.5	4630.8	4490.3	4475.6
52.5°	4987.4	5062.9	5201.3	5471.8	5656.4	5757.1	5652.2	5243.2	4947.5	4800.7	4777.6
55°	4880.4	4930.7	5157.2	5536.9	5822.1	5987.8	5918.6	5622.8	5262.1	5142.6	5163.5
57.5°	4425.3	4530.2	4809.1	5283.1	5817.9	6224.8	6218.5	5981.5	5624.9	5511.7	5515.9
60°	3643.0	3731.1	4075.0	4737.8	5583.0	6321.2	6543.6	6329.6	6031.8	5899.7	5895.5
62.5°	2571.3	2682.4	3080.9	3804.5	4890.9	6187.0	6916.9	6768.0	6430.3	6333.8	6369.5
65°	1438.7	1505.9	1875.0	2529.3	3726.9	5448.8	6984.0	7223.1	6835.1	6688.3	6694.6
67.5°	769.7	794.9	966.9	1327.6	2279.8	4200.9	6306.6	7485.2	7273.4	7019.6	6979.8
70°	528.5	536.9	581.0	679.5	1078.0	2512.6	4756.7	7017.5	7602.7	7256.6	7323.7
72.5°	446.7	442.5	453.0	463.5	564.2	1124.1	2791.5	5400.5	7176.9	7046.9	7021.7
75°	388.0	385.9	390.1	379.6	392.2	495.0	1235.3	3366.2	5253.7	5864.0	5958.4
77.5°	320.9	323.0	325.1	314.6	310.4	327.2	497.1	1478.6	2586.0	2854.4	3078.8
80°	243.3	247.5	264.3	253.8	237.0	239.1	293.6	495.0	742.4	673.2	694.2
82.5°	165.7	167.8	203.4	190.9	178.3	161.5	188.8	255.9	289.4	220.2	193.0
85°	117.4	115.4	132.1	121.6	113.3	81.8	113.3	144.7	174.1	109.1	98.6
87.5°	27.3	27.3	54.5	44.0	41.9	33.6	44.0	56.6	75.5	48.2	44.0
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4	1992.4
2.5°	2030.2	2011.3	2011.3	2007.1	1990.3	1986.1	1971.5	1975.6	1965.2	1954.7
5°	2101.5	2076.3	2076.3	2040.7	2007.1	2002.9	1986.1	1986.1	1969.4	1973.6
7.5°	2200.1	2177.0	2139.2	2107.8	2061.6	2042.8	2011.3	2007.1	2002.9	1994.5
10°	2317.5	2288.1	2250.4	2185.4	2147.6	2112.0	2080.5	2036.5	2026.0	2028.1
12.5°	2476.9	2430.8	2349.0	2292.3	2244.1	2198.0	2151.8	2086.8	2072.1	2078.4
15°	2590.2	2531.4	2449.6	2428.7	2363.6	2307.0	2231.5	2158.1	2132.9	2126.7
17.5°	2682.4	2634.2	2586.0	2554.5	2502.1	2432.9	2328.0	2244.1	2187.5	2181.2
20°	2757.9	2695.0	2684.5	2703.4	2638.4	2592.3	2464.3	2361.6	2286.0	2254.6
22.5°	2804.1	2764.2	2793.6	2810.4	2806.2	2728.6	2596.4	2476.9	2382.5	2353.2
25°	2854.4	2808.3	2913.1	2969.8	2984.4	2856.5	2753.7	2596.4	2504.2	2485.3
27.5°	2879.6	2896.4	3018.0	3137.6	3127.1	3028.5	2890.1	2749.6	2676.1	2642.6
30°	2953.0	2980.3	3164.8	3299.0	3301.1	3204.7	3099.8	2940.4	2858.6	2843.9
32.5°	3085.1	3118.7	3315.8	3458.4	3483.6	3410.2	3305.3	3206.8	3122.9	3089.3
35°	3185.8	3271.8	3494.1	3624.1	3691.2	3647.2	3588.5	3485.7	3397.6	3368.3
37.5°	3330.5	3450.0	3664.0	3840.1	3915.6	3911.5	3867.4	3756.3	3682.8	3657.7
40°	3538.1	3657.7	3852.7	4085.5	4226.0	4219.8	4194.6	4108.6	3999.5	3987.0
42.5°	3758.3	3856.9	4110.7	4377.1	4578.4	4557.4	4490.3	4389.6	4314.1	4297.4
45°	3972.3	4125.4	4360.3	4702.1	4853.1	4905.6	4825.9	4653.9	4567.9	4557.4
47.5°	4240.7	4362.4	4656.0	4962.2	5186.6	5195.0	5058.7	4899.3	4742.0	4775.5
50°	4479.8	4641.3	4939.1	5274.7	5543.1	5446.7	5272.6	5073.4	4960.1	4916.1
52.5°	4735.7	4932.8	5278.9	5620.7	5769.7	5673.2	5390.0	5167.7	4995.8	4976.9
55°	5109.0	5211.8	5664.8	5926.9	5975.2	5771.7	5354.4	5039.8	4817.5	4763.0
57.5°	5488.6	5608.2	6004.5	6231.1	6180.7	5717.2	5123.7	4637.1	4345.6	4268.0
60°	5872.4	6019.2	6352.7	6560.3	6300.3	5341.8	4471.4	3844.3	3504.6	3435.4
62.5°	6300.3	6491.1	6788.9	6862.3	5945.8	4599.4	3548.6	2774.7	2430.8	2315.4
65°	6679.9	6874.9	7242.0	6799.4	5192.9	3431.2	2294.4	1585.6	1331.8	1239.5
67.5°	6992.4	7212.6	7393.0	6017.1	3802.4	2009.2	1195.5	834.7	740.3	706.8
70°	7239.9	7606.9	6763.8	4423.2	2172.8	979.4	646.0	549.5	536.9	528.5
72.5°	7023.8	6975.6	5050.3	2552.4	952.2	539.0	467.7	453.0	450.9	453.0
75°	5744.5	5123.7	3020.1	1109.5	478.2	390.1	388.0	381.7	392.2	392.2
77.5°	2787.3	2437.1	1262.6	476.1	314.6	306.2	316.7	316.7	316.7	316.7
80°	646.0	715.2	450.9	289.4	228.6	228.6	251.7	253.8	243.3	239.1
82.5°	220.2	293.6	247.5	182.5	151.0	169.9	190.9	195.0	161.5	163.6
85°	109.1	172.0	134.2	104.9	77.6	104.9	123.7	130.0	111.2	107.0
87.5°	50.3	75.5	50.3	35.7	27.3	37.8	35.7	29.4	16.8	16.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)