

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: P478801

Luminaire Tested: **IFLD-M-SA4B-722-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478801
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-722-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

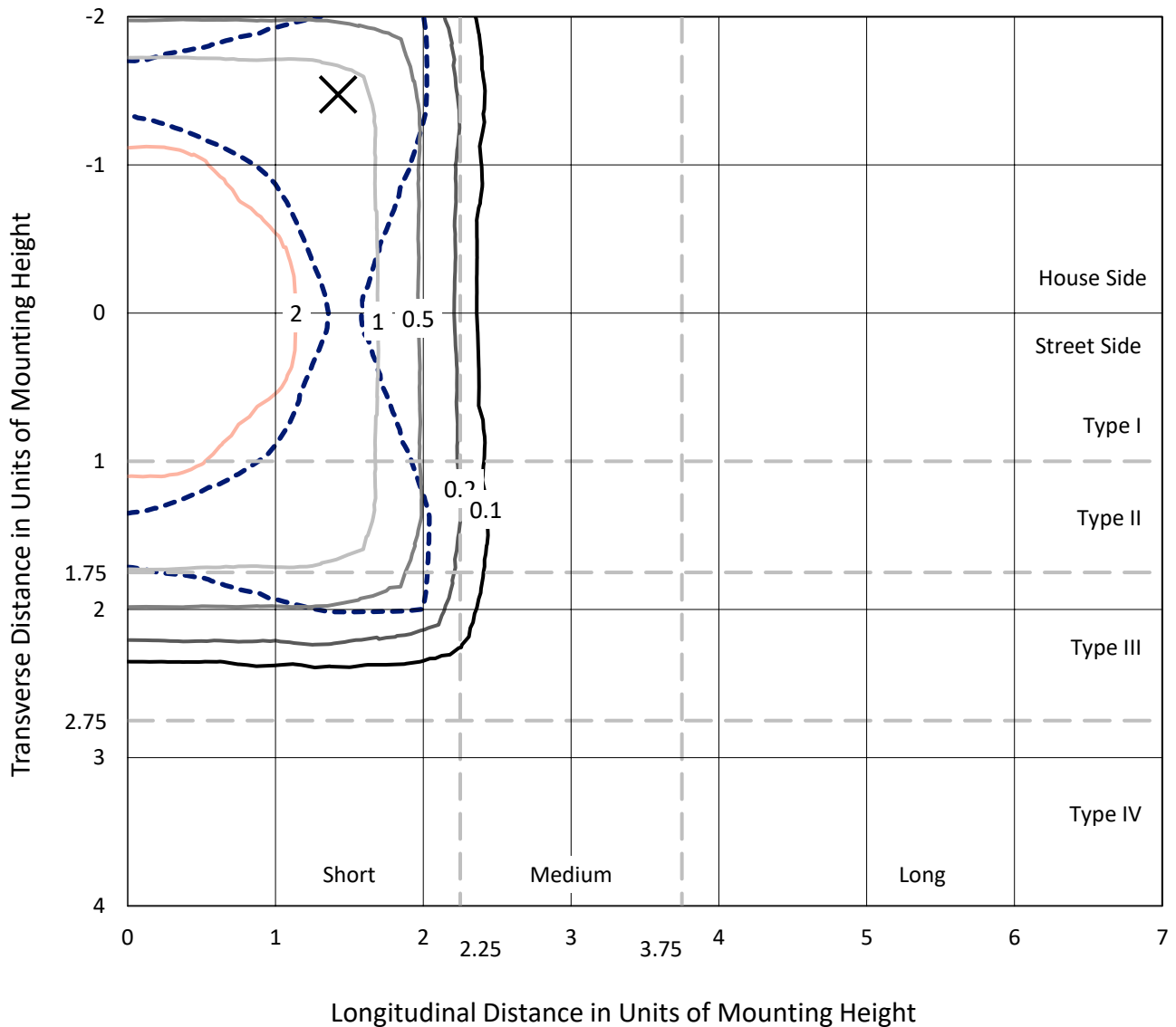
Lumens per Lamp: N/A
Luminaire Lumens: 16779.3 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 166.1
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

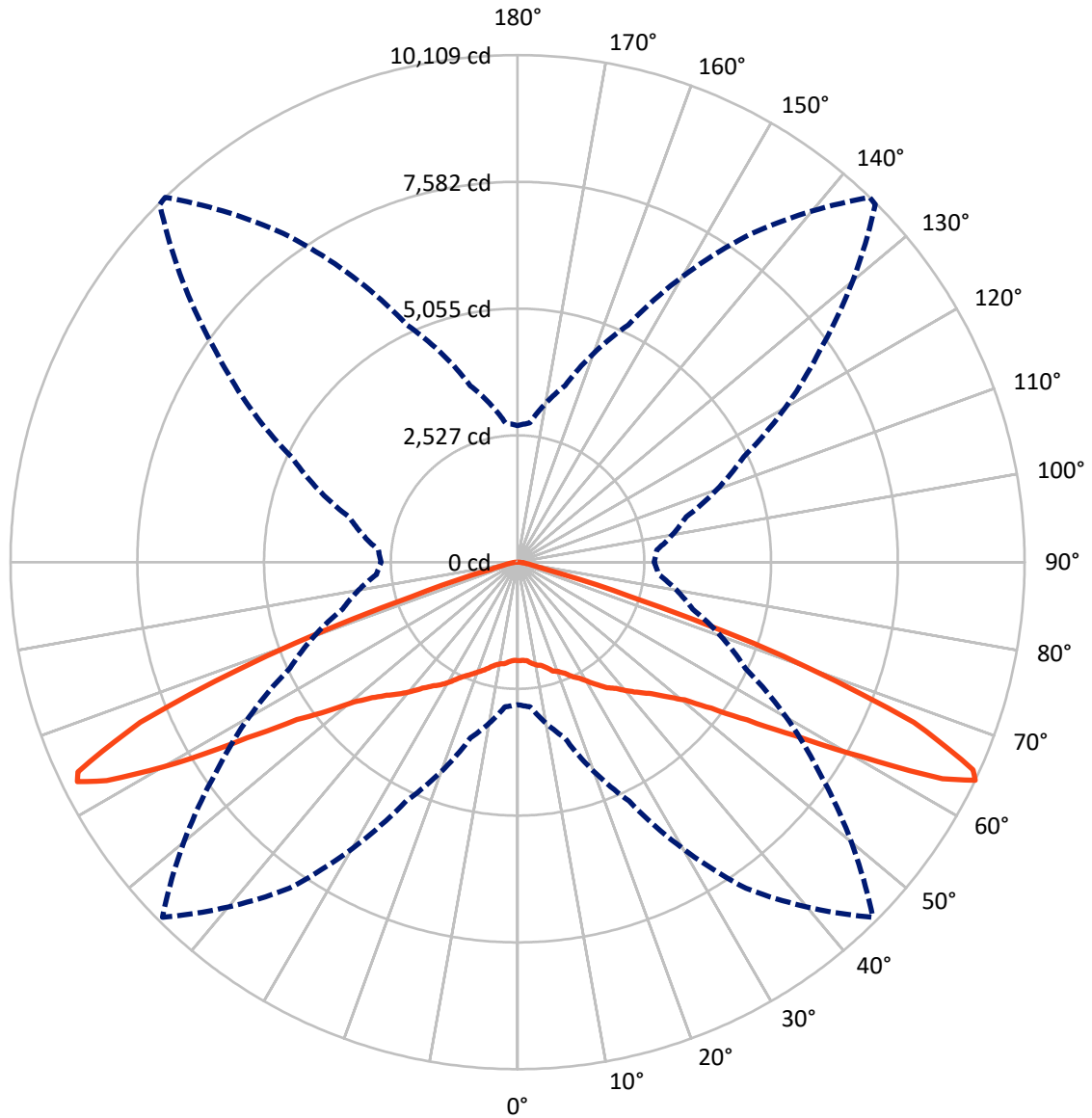
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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
House Side	Lumens	8397.7	0.0	8397.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8381.7	0.0	8381.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	16779.3	0.0	16779.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.0	1.2
10°-20°	622.1	3.7
20°-30°	1169.2	7.0
30°-40°	1928.3	11.5
40°-50°	3015.7	18.0
50°-60°	4872.6	29.0
60°-70°	4387.5	26.1
70°-80°	519.7	3.1
80°-90°	71.1	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°	16779.3	100.0
0°-180°	16779.3	100.0

Coefficient of Utilization



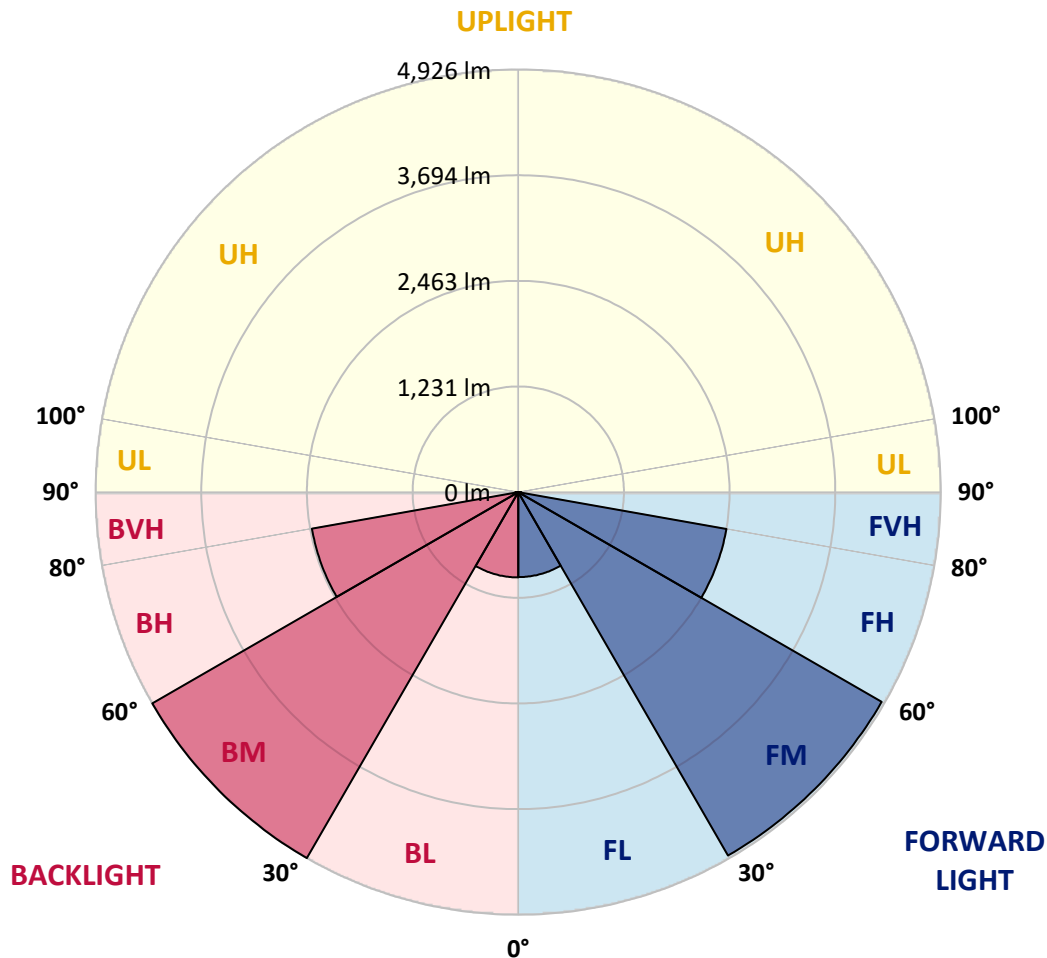
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	990.3	5.9			
FM (30°-60°)	4890.7	29.1			
FH (60°-80°)	2464.2	14.7			G2/5000
FVH (80°-90°)	36.5	0.2			G1/100
BL (0°-30°)	994.1	5.9	B2/1000		
BM (30°-60°)	4925.9	29.4	B3/5000		
BH (60°-80°)	2443.0	14.6	B3/2500		G2/5000
BVH (80°-90°)	34.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1964.5	1964.5	1964.5	1964.5	1964.5	1964.5	1964.5	1964.5	1964.5	1964.5	1964.5
2.5°	1941.4	1945.3	1979.9	1966.4	1978.0	1956.8	1972.2	2004.9	1966.4	1995.3	2004.9
5°	1962.6	1968.4	1968.4	1981.8	1989.5	1985.7	1995.3	1981.8	2018.4	2003.0	2026.1
7.5°	2039.6	2029.9	2014.5	2026.1	2028.0	2037.6	2047.3	2064.6	2058.8	2045.3	2068.4
10°	2053.0	2045.3	2068.4	2070.3	2060.7	2053.0	2062.6	2062.6	2080.0	2083.8	2083.8
12.5°	2076.1	2083.8	2081.9	2097.3	2099.2	2093.4	2108.8	2137.7	2130.0	2135.8	2122.3
15°	2164.6	2155.0	2153.1	2168.5	2193.5	2156.9	2183.9	2181.9	2174.2	2185.8	2155.0
17.5°	2241.6	2210.8	2224.3	2249.3	2239.7	2247.4	2282.0	2251.2	2258.9	2245.4	2235.8
20°	2308.9	2283.9	2285.8	2295.5	2295.5	2318.6	2332.0	2320.5	2312.8	2310.9	2314.7
22.5°	2384.0	2355.1	2357.0	2397.4	2410.9	2403.2	2393.6	2412.8	2416.7	2401.3	2418.6
25°	2439.8	2470.6	2480.2	2499.4	2470.6	2491.7	2484.0	2520.6	2543.7	2512.9	2534.1
27.5°	2586.0	2572.5	2597.5	2595.6	2618.7	2597.5	2611.0	2622.6	2632.2	2634.1	2624.5
30°	2716.8	2722.6	2697.6	2764.9	2711.1	2745.7	2768.8	2774.6	2786.1	2786.1	2757.2
32.5°	2855.4	2843.8	2884.2	2868.8	2859.2	2886.2	2861.2	2940.0	2893.9	2920.8	2888.1
35°	3011.2	3011.2	3026.6	3069.0	3011.2	2993.9	3040.1	3072.8	3072.8	3024.7	3036.2
37.5°	3186.3	3170.9	3190.2	3244.0	3199.8	3142.1	3226.7	3240.2	3230.6	3217.1	3194.0
40°	3309.5	3305.6	3344.1	3415.3	3351.8	3340.3	3355.6	3392.2	3403.8	3417.2	3386.4
42.5°	3517.3	3534.6	3646.2	3628.9	3576.9	3536.5	3532.7	3669.3	3636.6	3601.9	3584.6
45°	3825.1	3809.7	3867.5	3869.4	3802.0	3713.5	3732.8	3857.8	3913.6	3836.7	3865.5
47.5°	4069.5	4077.2	4117.6	4200.3	4044.5	3952.1	4023.3	4225.3	4208.0	4179.2	4206.1
50°	4396.6	4431.2	4558.2	4529.4	4390.8	4277.3	4433.1	4623.6	4644.8	4539.0	4519.7
52.5°	4848.8	4902.6	4971.9	4995.0	4862.2	4821.8	4831.4	5068.1	5016.2	4914.2	4848.8
55°	5245.1	5270.1	5397.1	5587.6	5578.0	5383.7	5495.3	5583.8	5372.1	5162.4	5179.7
57.5°	5414.4	5426.0	5780.0	6161.0	6388.0	6432.3	6305.3	6007.1	5503.0	5098.9	5073.9
60°	4993.1	5102.7	5529.9	6390.0	7427.1	7938.9	7094.2	6055.2	5197.0	4706.4	4669.8
62.5°	3990.6	3996.4	4631.3	5935.9	8073.6	9414.7	7396.3	5603.0	4381.2	3825.1	3678.9
64°	2841.9	2895.8	3625.0	5254.7	7938.9	10015.0	7359.7	5012.3	3611.6	2822.7	2720.7
65°	2039.6	2114.6	2818.8	4562.1	7623.3	9943.8	7250.0	4504.3	2920.8	2155.0	2051.1
67.5°	750.4	781.2	1106.4	2282.0	5474.1	8473.8	5745.4	2476.3	1283.4	914.0	821.6
70°	348.3	350.2	409.8	754.3	2393.6	5666.5	2741.9	929.3	483.0	382.9	356.0
72.5°	255.9	261.7	286.7	348.3	704.2	2399.4	900.5	381.0	282.8	250.1	244.4
75°	207.8	211.7	219.3	252.1	325.2	642.7	365.6	263.6	225.1	202.0	194.3
77.5°	159.7	159.7	177.0	192.4	215.5	300.2	242.4	209.7	182.8	159.7	153.9
80°	115.4	117.4	138.5	150.1	146.2	198.2	175.1	173.2	150.1	125.1	115.4
82.5°	67.3	73.1	100.1	107.8	103.9	117.4	127.0	134.7	117.4	86.6	78.9
85°	38.5	40.4	57.7	59.6	59.6	55.8	73.1	80.8	78.9	53.9	48.1
87.5°	11.5	11.5	15.4	15.4	17.3	19.2	28.9	34.6	38.5	26.9	25.0
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°	136°	145°	155°	165°	175°	180°
0°	1964.5	1964.5	1964.5	1964.5	1964.5	1964.5	1964.5	1964.5	1964.5	1964.5	1964.5
2.5°	1995.3	1966.4	1968.4	1976.1	1951.0	1960.7	1989.5	1968.4	1962.6	1951.0	1945.3
5°	1985.7	2016.5	2004.9	2008.8	2003.0	1976.1	1972.2	1989.5	1999.2	1981.8	2016.5
7.5°	2053.0	2039.6	2024.2	2029.9	2016.5	2039.6	2054.9	2020.3	2037.6	2028.0	2008.8
10°	2091.5	2066.5	2078.0	2074.2	2064.6	2087.7	2072.3	2068.4	2053.0	2031.9	2062.6
12.5°	2105.0	2133.8	2153.1	2120.4	2126.1	2114.6	2105.0	2105.0	2087.7	2081.9	2087.7
15°	2164.6	2189.6	2181.9	2207.0	2174.2	2185.8	2197.3	2168.5	2183.9	2141.5	2174.2
17.5°	2274.3	2253.1	2280.1	2247.4	2258.9	2282.0	2245.4	2245.4	2257.0	2233.9	2205.0
20°	2343.6	2333.9	2324.3	2326.2	2307.0	2328.2	2316.6	2310.9	2293.5	2301.2	2316.6
22.5°	2409.0	2395.5	2399.4	2405.1	2418.6	2409.0	2403.2	2409.0	2366.7	2405.1	2351.3
25°	2489.8	2526.4	2514.8	2539.8	2501.3	2526.4	2524.4	2487.9	2511.0	2495.6	2484.0
27.5°	2624.5	2605.2	2622.6	2591.8	2618.7	2620.6	2597.5	2659.1	2632.2	2628.3	2620.6
30°	2797.7	2784.2	2772.6	2755.3	2776.5	2759.2	2778.4	2784.2	2759.2	2739.9	2703.4
32.5°	2895.8	2932.3	2945.8	2903.5	2905.4	2915.0	2897.7	2880.4	2895.8	2901.6	2895.8
35°	3034.3	3069.0	3076.7	3043.9	3026.6	3074.7	3040.1	3097.8	3047.8	3049.7	2997.8
37.5°	3195.9	3205.6	3271.0	3234.4	3219.0	3195.9	3259.4	3251.7	3263.3	3170.9	3217.1
40°	3378.7	3413.4	3449.9	3357.6	3355.6	3376.8	3373.0	3417.2	3396.1	3382.6	3349.9
42.5°	3578.8	3652.0	3657.7	3596.2	3557.7	3553.8	3573.1	3671.2	3673.1	3584.6	3546.1
45°	3844.4	3925.2	3904.0	3784.7	3742.4	3736.6	3830.9	3873.2	3909.8	3875.2	3842.4
47.5°	4175.3	4229.2	4213.8	4104.1	3967.5	4006.0	4098.4	4231.1	4192.6	4146.5	4108.0
50°	4529.4	4592.9	4560.1	4450.5	4319.6	4319.6	4433.1	4602.5	4590.9	4500.5	4465.9
52.5°	4921.9	5014.2	5089.3	4933.4	4823.7	4841.1	5020.0	5081.6	5052.7	4989.2	4960.4
55°	5214.3	5391.4	5545.3	5553.0	5558.8	5556.8	5603.0	5664.6	5458.7	5356.7	5252.8
57.5°	5143.1	5477.9	6005.1	6363.0	6468.9	6524.7	6509.3	6224.5	5737.7	5402.9	5437.5
60°	4635.2	5181.6	6032.1	7180.8	7950.4	7873.5	7592.5	6466.9	5583.8	5018.1	4946.9
62.5°	3698.1	4356.2	5579.9	7411.7	9532.0	9509.0	8038.9	5907.0	4652.5	3936.7	3892.5
64°	2786.1	3478.8	4977.7	7352.0	10086.2	10109.3	7925.4	5218.2	3640.4	2786.1	2718.8
65°	2131.9	2774.6	4387.0	7228.9	9966.9	9980.4	7609.9	4506.3	2766.9	1978.0	1904.9
67.5°	848.5	1181.4	2380.1	5481.8	8558.4	8521.9	5429.8	2180.0	1058.3	688.8	675.4
70°	361.7	450.2	835.1	2597.5	5730.0	5624.2	2337.8	708.1	392.5	329.0	327.1
72.5°	248.2	275.1	357.9	802.4	2382.0	2326.2	665.7	329.0	267.5	246.3	246.3
75°	200.1	219.3	259.8	336.7	631.1	608.0	313.6	242.4	213.6	198.2	196.3
77.5°	155.9	175.1	204.0	232.8	288.6	286.7	209.7	182.8	165.5	153.9	150.1
80°	123.1	142.4	161.6	165.5	188.6	184.7	142.4	144.3	134.7	111.6	109.7
82.5°	84.7	115.4	128.9	117.4	111.6	111.6	102.0	102.0	94.3	69.3	63.5
85°	52.0	77.0	80.8	69.3	52.0	52.0	55.8	53.9	50.0	36.6	34.6
87.5°	26.9	36.6	32.7	26.9	17.3	17.3	15.4	11.5	11.5	9.6	9.6
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)