

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: P478898

Luminaire Tested: **IFLD-S-SA3B-735-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478898
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-735-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

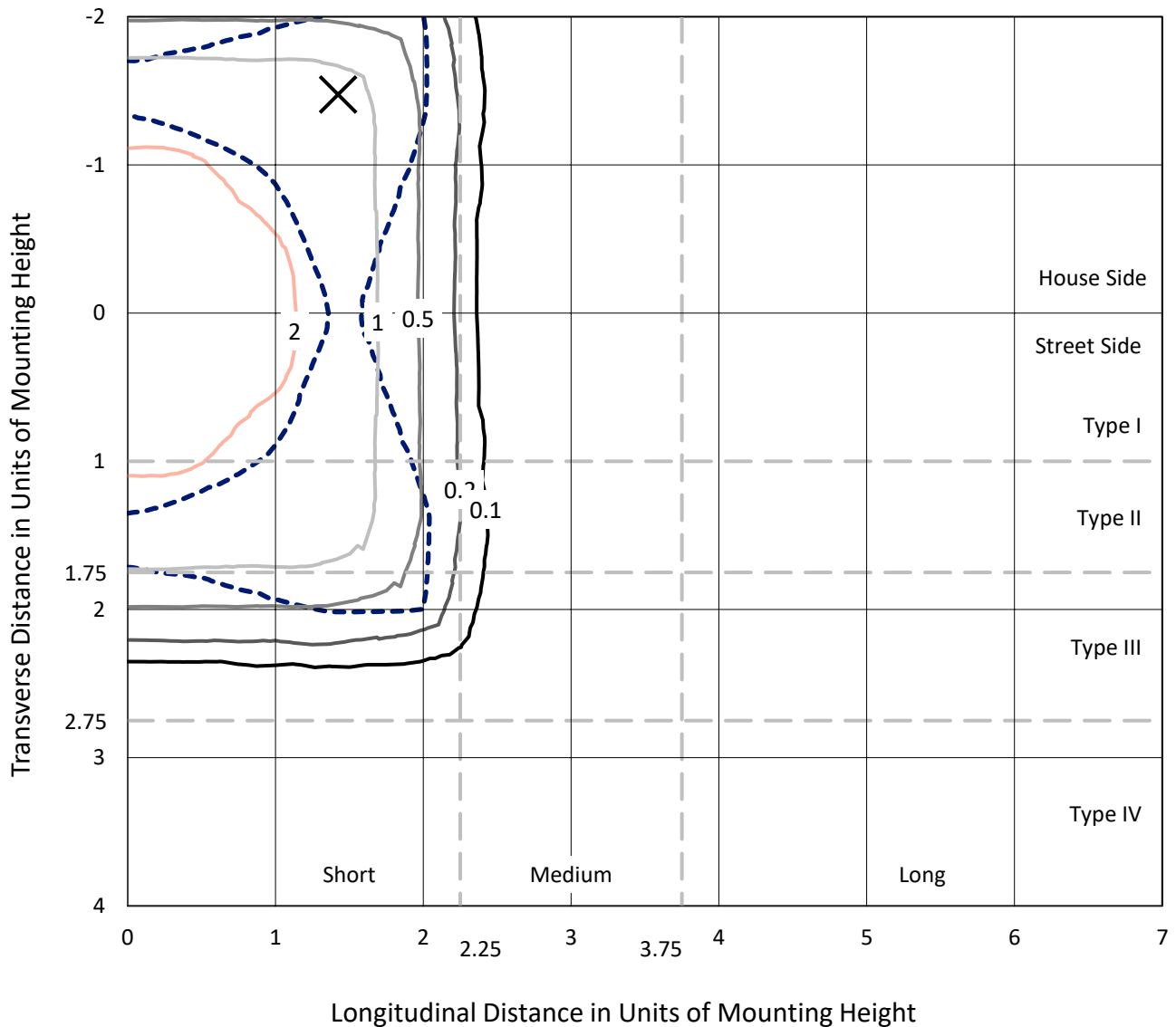
Lumens per Lamp: N/A
Luminaire Lumens: 16738.7 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 122.4
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

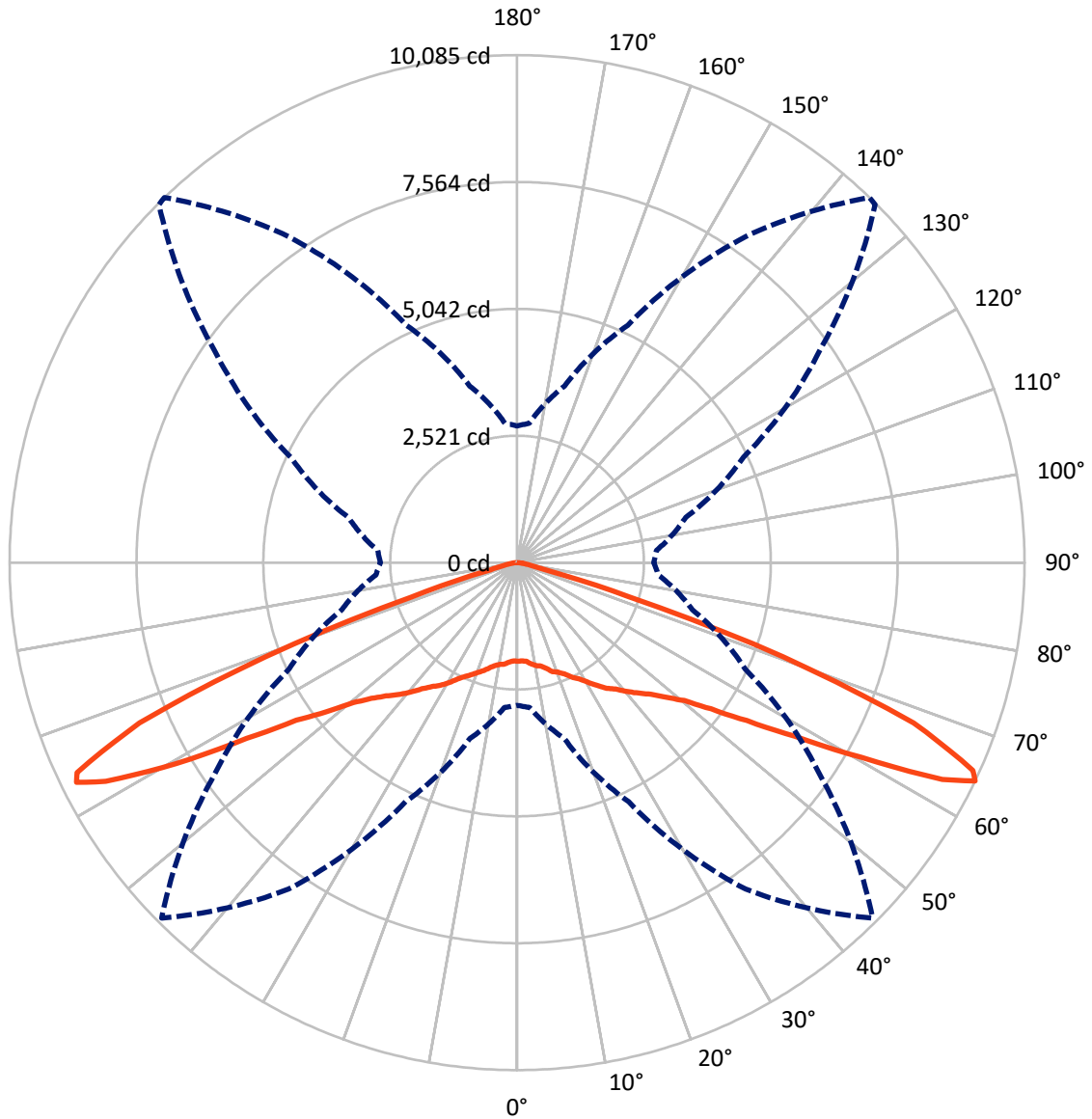
× Max cd
 - - - 1/2 Max cd



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	8377.3	0.0	8377.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8361.4	0.0	8361.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	16738.7	0.0	16738.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.6	1.2
10°-20°	620.6	3.7
20°-30°	1166.4	7.0
30°-40°	1923.6	11.5
40°-50°	3008.4	18.0
50°-60°	4860.8	29.0
60°-70°	4376.8	26.1
70°-80°	518.5	3.1
80°-90°	71.0	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°	16738.7	100.0
0°-180°	16738.7	100.0

Coefficient of Utilization



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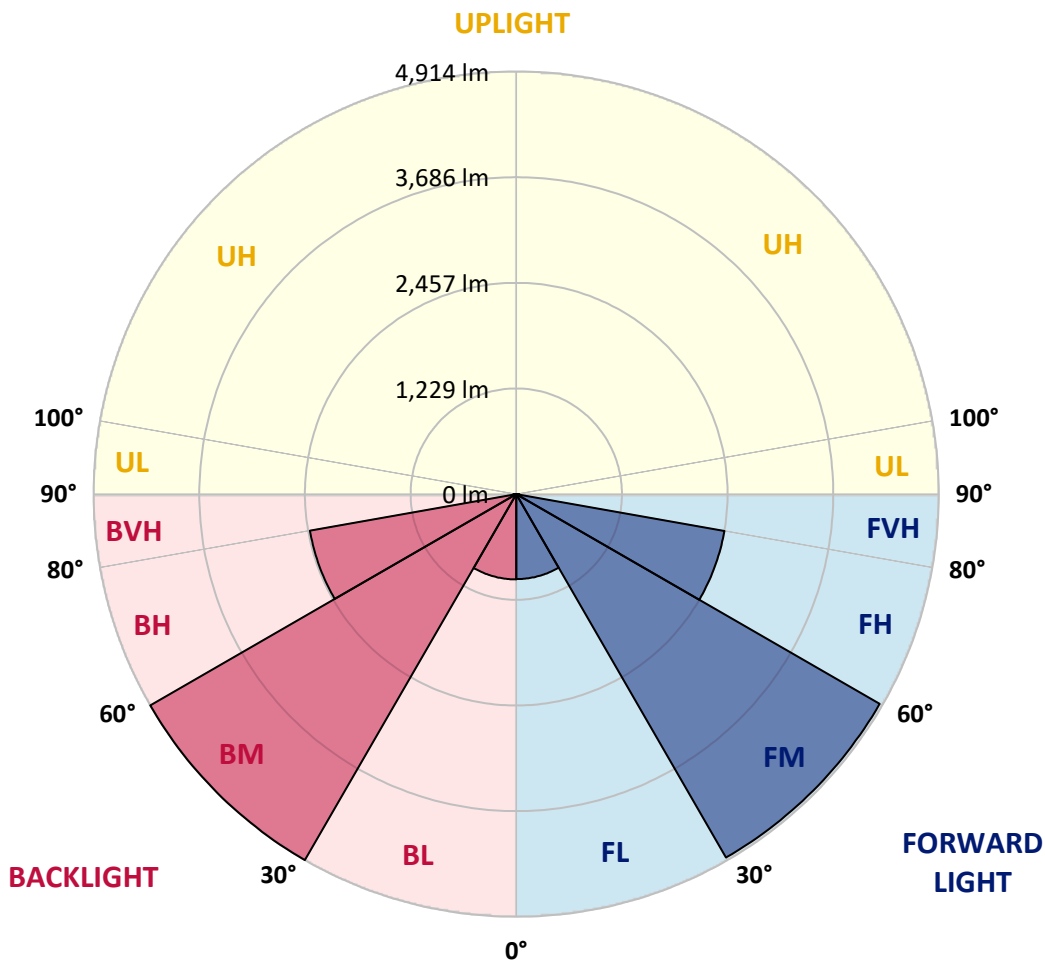
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	987.9	5.9			
FM (30°-60°)	4878.8	29.1			
FH (60°-80°)	2458.3	14.7			G2/5000
FVH (80°-90°)	36.4	0.2			G1/100
BL (0°-30°)	991.7	5.9	B2/1000		
BM (30°-60°)	4914.0	29.4	B3/5000		
BH (60°-80°)	2437.1	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°	1959.8	1959.8	1959.8	1959.8	1959.8	1959.8	1959.8	1959.8	1959.8	1959.8	1959.8
2.5°	1936.7	1940.6	1975.1	1961.7	1973.2	1952.1	1967.4	2000.1	1961.7	1990.5	2000.1
5°	1957.8	1963.6	1963.6	1977.0	1984.7	1980.9	1990.5	1977.0	2013.5	1998.1	2021.2
7.5°	2034.6	2025.0	2009.7	2021.2	2023.1	2032.7	2042.3	2059.6	2053.8	2040.4	2063.4
10°	2048.0	2040.4	2063.4	2065.3	2055.7	2048.0	2057.6	2057.6	2074.9	2078.8	2078.8
12.5°	2071.1	2078.8	2076.8	2092.2	2094.1	2088.4	2103.7	2132.5	2124.8	2130.6	2117.1
15°	2159.4	2149.8	2147.9	2163.2	2188.2	2151.7	2178.6	2176.7	2169.0	2180.5	2149.8
17.5°	2236.2	2205.4	2218.9	2243.8	2234.2	2241.9	2276.5	2245.8	2253.4	2240.0	2230.4
20°	2303.3	2278.4	2280.3	2289.9	2289.9	2312.9	2326.4	2314.9	2307.2	2305.3	2309.1
22.5°	2378.2	2349.4	2351.3	2391.6	2405.1	2397.4	2387.8	2407.0	2410.8	2395.5	2412.7
25°	2433.9	2464.6	2474.2	2493.4	2464.6	2485.7	2478.0	2514.5	2537.5	2506.8	2527.9
27.5°	2579.7	2566.3	2591.3	2589.3	2612.4	2591.3	2604.7	2616.2	2625.8	2627.7	2618.1
30°	2710.3	2716.0	2691.1	2758.2	2704.5	2739.0	2762.1	2767.8	2779.4	2779.4	2750.6
32.5°	2848.5	2836.9	2877.2	2861.9	2852.3	2879.2	2854.2	2932.9	2886.8	2913.7	2881.1
35°	3003.9	3003.9	3019.3	3061.5	3003.9	2986.7	3032.7	3065.4	3065.4	3017.4	3028.9
37.5°	3178.6	3163.2	3182.4	3236.2	3192.0	3134.5	3218.9	3232.3	3222.7	3209.3	3186.3
40°	3301.4	3297.6	3336.0	3407.0	3343.7	3332.2	3347.5	3384.0	3395.5	3408.9	3378.2
42.5°	3508.7	3526.0	3637.3	3620.1	3568.2	3527.9	3524.1	3660.4	3627.8	3593.2	3575.9
45°	3815.9	3800.5	3858.1	3860.0	3792.8	3704.5	3723.7	3848.5	3904.2	3827.4	3856.2
47.5°	4059.6	4067.3	4107.6	4190.1	4034.7	3942.5	4013.6	4215.1	4197.8	4169.0	4195.9
50°	4385.9	4420.5	4547.2	4518.4	4380.2	4266.9	4422.4	4612.4	4633.5	4528.0	4508.8
52.5°	4837.0	4890.7	4959.8	4982.9	4850.4	4810.1	4819.7	5055.8	5004.0	4902.3	4837.0
55°	5232.4	5257.4	5384.0	5574.1	5564.5	5370.6	5481.9	5570.2	5359.1	5149.9	5167.1
57.5°	5401.3	5412.8	5766.0	6146.1	6372.6	6416.7	6290.0	5992.5	5489.6	5086.5	5061.6
60°	4981.0	5090.4	5516.5	6374.5	7409.1	7919.6	7077.0	6040.5	5184.4	4695.0	4658.5
62.5°	3980.9	3986.7	4620.1	5921.5	8054.0	9391.8	7378.3	5589.4	4370.6	3815.9	3670.0
64°	2835.0	2888.8	3616.2	5242.0	7919.6	9990.7	7341.9	5000.2	3602.8	2815.8	2714.1
65°	2034.6	2109.5	2812.0	4551.0	7604.8	9919.7	7232.5	4493.4	2913.7	2149.8	2046.1
67.5°	748.6	779.3	1103.7	2276.5	5460.8	8453.2	5731.5	2470.3	1280.3	911.7	819.6
70°	347.4	349.3	408.8	752.4	2387.8	5652.8	2735.2	927.1	481.8	382.0	355.1
72.5°	255.3	261.0	286.0	347.4	702.5	2393.5	898.3	380.1	282.2	249.5	243.8
75°	207.3	211.1	218.8	251.4	324.4	641.1	364.7	263.0	224.6	201.5	193.9
77.5°	159.3	159.3	176.6	191.9	215.0	299.4	241.9	209.2	182.3	159.3	153.6
80°	115.2	117.1	138.2	149.7	145.9	197.7	174.7	172.8	149.7	124.8	115.2
82.5°	67.2	72.9	99.8	107.5	103.7	117.1	126.7	134.4	117.1	86.4	78.7
85°	38.4	40.3	57.6	59.5	59.5	55.7	72.9	80.6	78.7	53.7	48.0
87.5°	11.5	11.5	15.4	15.4	17.3	19.2	28.8	34.6	38.4	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°	1959.8	1959.8	1959.8	1959.8	1959.8	1959.8	1959.8	1959.8	1959.8	1959.8	1959.8
2.5°	1990.5	1961.7	1963.6	1971.3	1946.3	1955.9	1984.7	1963.6	1957.8	1946.3	1940.6
5°	1980.9	2011.6	2000.1	2003.9	1998.1	1971.3	1967.4	1984.7	1994.3	1977.0	2011.6
7.5°	2048.0	2034.6	2019.3	2025.0	2011.6	2034.6	2050.0	2015.4	2032.7	2023.1	2003.9
10°	2086.4	2061.5	2073.0	2069.2	2059.6	2082.6	2067.2	2063.4	2048.0	2026.9	2057.6
12.5°	2099.9	2128.7	2147.9	2115.2	2121.0	2109.5	2099.9	2099.9	2082.6	2076.8	2082.6
15°	2159.4	2184.3	2176.7	2201.6	2169.0	2180.5	2192.0	2163.2	2178.6	2136.3	2169.0
17.5°	2268.8	2247.7	2274.5	2241.9	2253.4	2276.5	2240.0	2240.0	2251.5	2228.5	2199.7
20°	2337.9	2328.3	2318.7	2320.6	2301.4	2322.5	2311.0	2305.3	2288.0	2295.7	2311.0
22.5°	2403.1	2389.7	2393.5	2399.3	2412.7	2403.1	2397.4	2403.1	2360.9	2399.3	2345.6
25°	2483.8	2520.2	2508.7	2533.7	2495.3	2520.2	2518.3	2481.8	2504.9	2489.5	2478.0
27.5°	2618.1	2598.9	2616.2	2585.5	2612.4	2614.3	2591.3	2652.7	2625.8	2622.0	2614.3
30°	2790.9	2777.4	2765.9	2748.6	2769.8	2752.5	2771.7	2777.4	2752.5	2733.3	2696.8
32.5°	2888.8	2925.2	2938.7	2896.4	2898.4	2908.0	2890.7	2873.4	2888.8	2894.5	2888.8
35°	3027.0	3061.5	3069.2	3036.6	3019.3	3067.3	3032.7	3090.3	3040.4	3042.3	2990.5
37.5°	3188.2	3197.8	3263.1	3226.6	3211.2	3188.2	3251.5	3243.9	3255.4	3163.2	3209.3
40°	3370.5	3405.1	3441.6	3349.4	3347.5	3368.6	3364.8	3408.9	3387.8	3374.4	3341.8
42.5°	3570.2	3643.1	3648.9	3587.4	3549.1	3545.2	3564.4	3662.3	3664.2	3575.9	3537.5
45°	3835.1	3915.7	3894.6	3775.5	3733.3	3727.6	3821.6	3863.8	3900.3	3865.8	3833.1
47.5°	4165.2	4218.9	4203.6	4094.2	3957.9	3996.3	4088.4	4220.9	4182.5	4136.4	4098.0
50°	4518.4	4581.7	4549.1	4439.7	4309.2	4309.2	4422.4	4591.3	4579.8	4489.6	4455.0
52.5°	4909.9	5002.1	5076.9	4921.5	4812.0	4829.3	5007.8	5069.3	5040.5	4977.1	4948.3
55°	5201.7	5378.3	5531.8	5539.5	5545.3	5543.4	5589.4	5650.8	5445.5	5343.7	5240.1
57.5°	5130.7	5464.7	5990.6	6347.6	6453.2	6508.8	6493.5	6209.4	5723.8	5389.8	5424.4
60°	4623.9	5169.1	6017.5	7163.4	7931.1	7854.4	7574.1	6451.3	5570.2	5005.9	4934.9
62.5°	3689.2	4345.6	5566.4	7393.7	9508.9	9485.9	8019.4	5892.7	4641.2	3927.2	3883.0
64°	2779.4	3470.4	4965.6	7334.2	10061.7	10084.8	7906.2	5205.5	3631.6	2779.4	2712.2
65°	2126.7	2767.8	4376.3	7211.4	9942.7	9956.2	7591.4	4495.3	2760.2	1973.2	1900.3
67.5°	846.5	1178.5	2374.4	5468.5	8537.7	8501.2	5416.7	2174.7	1055.7	687.2	673.7
70°	360.9	449.2	833.0	2591.3	5716.1	5610.5	2332.1	706.4	391.6	328.2	326.3
72.5°	247.6	274.5	357.0	800.4	2376.3	2320.6	664.1	328.2	266.8	245.7	245.7
75°	199.6	218.8	259.1	335.9	629.6	606.5	312.9	241.9	213.1	197.7	195.8
77.5°	155.5	174.7	203.5	232.3	287.9	286.0	209.2	182.3	165.1	153.6	149.7
80°	122.8	142.0	161.2	165.1	188.1	184.3	142.0	144.0	134.4	111.3	109.4
82.5°	84.5	115.2	128.6	117.1	111.3	111.3	101.7	101.7	94.1	69.1	63.3
85°	51.8	76.8	80.6	69.1	51.8	51.8	55.7	53.7	49.9	36.5	34.6
87.5°	26.9	36.5	32.6	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)