

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: P479074

Luminaire Tested: **IFLD-M-SA4B-827-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479074
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-827-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

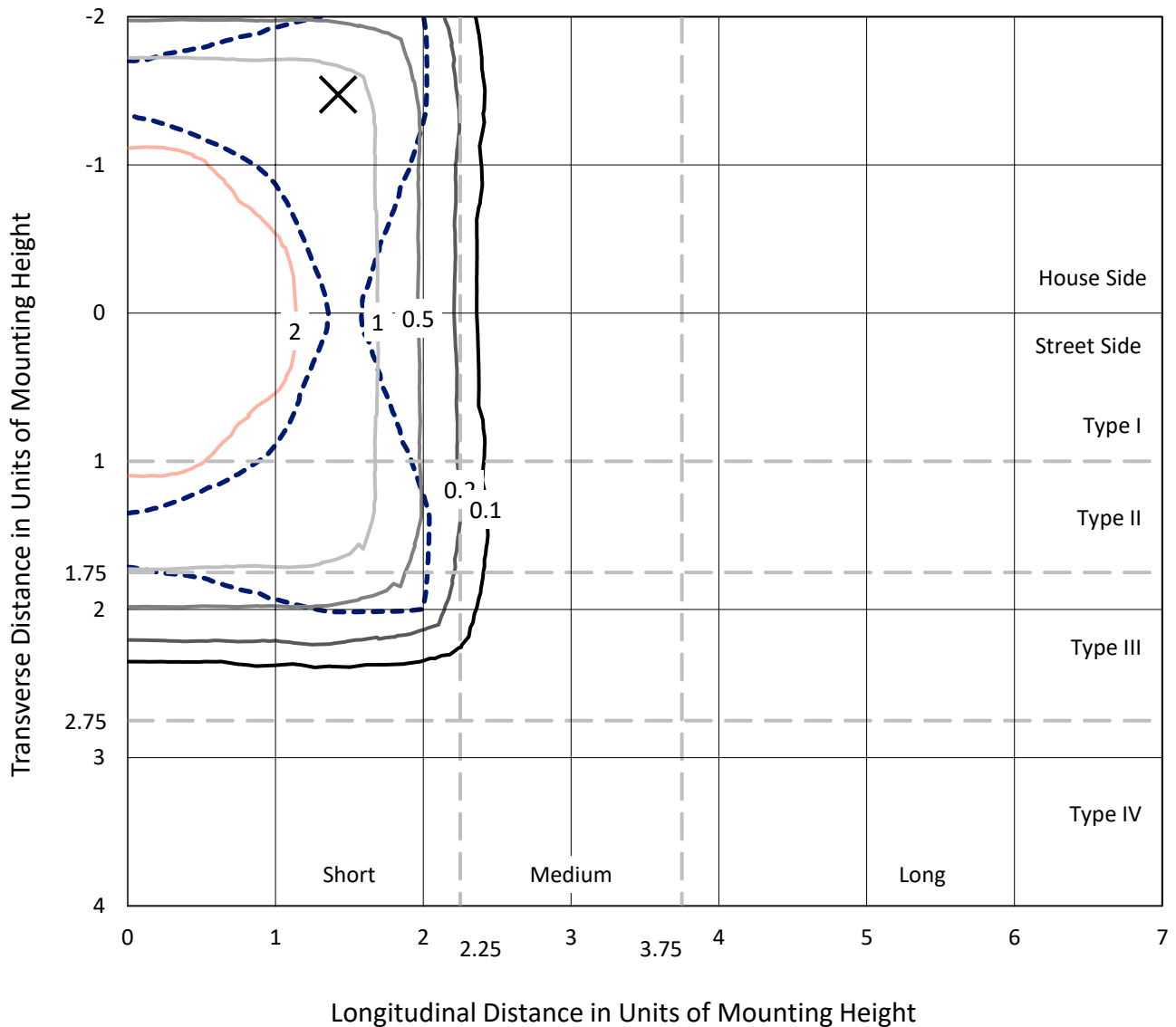
Lumens per Lamp: N/A
Luminaire Lumens: 16745.2 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 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

REPORT NUMBER: P479074
 CATALOG NUMBER: IFLD-M-SA4B-827-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

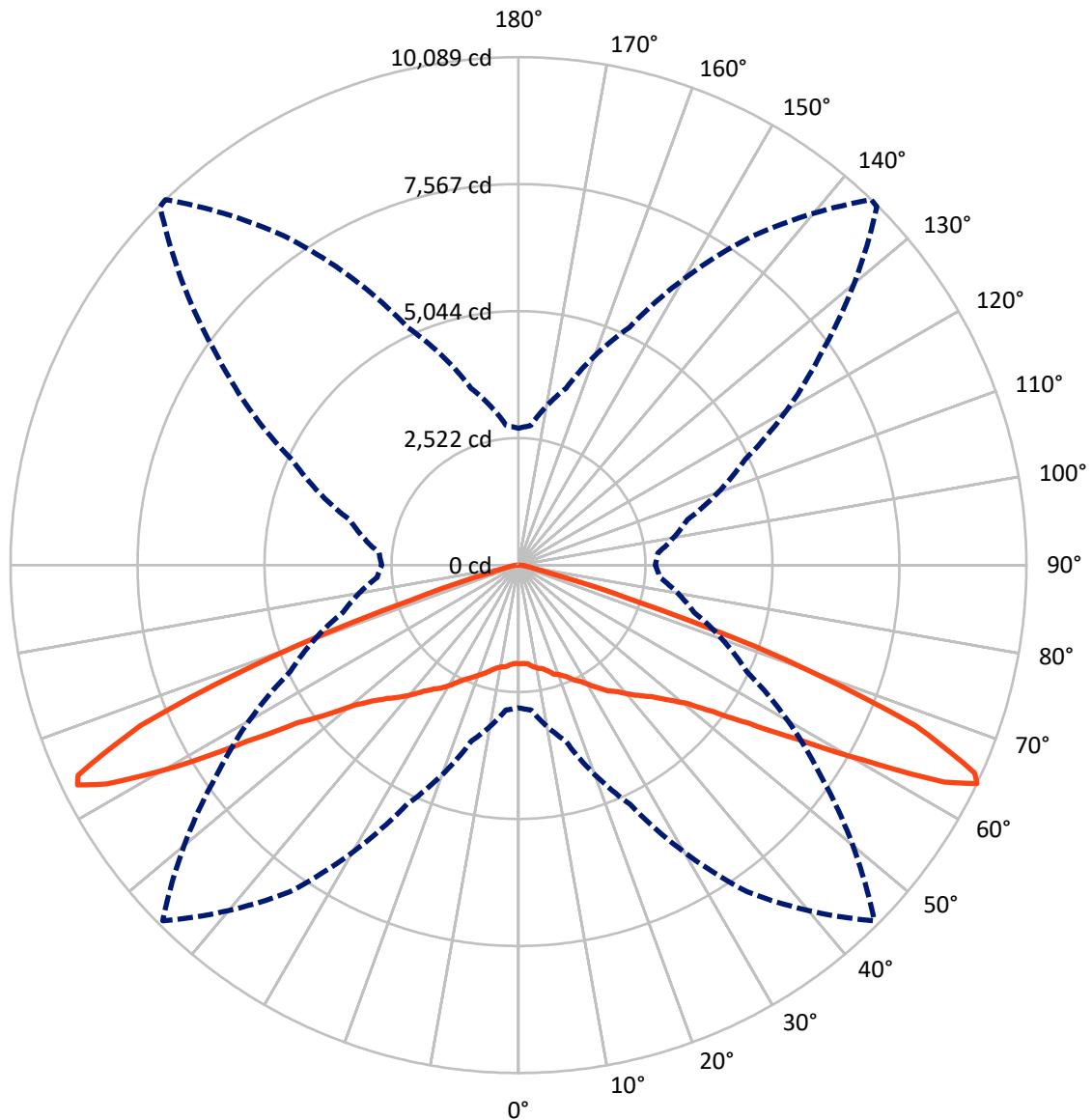
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - N/A

REPORT NUMBER: P479074
CATALOG NUMBER: IFLD-M-SA4B-827-U-5NQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P479074

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8380.6	0.0	8380.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8364.6	0.0	8364.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	16745.2	0.0	16745.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.6	1.2
10°-20°	620.9	3.7
20°-30°	1166.9	7.0
30°-40°	1924.3	11.5
40°-50°	3009.6	18.0
50°-60°	4862.7	29.0
60°-70°	4378.5	26.1
70°-80°	518.7	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°	16745.2	100.0
0°-180°	16745.2	100.0

Coefficient of Utilization



REPORT NUMBER: P479074

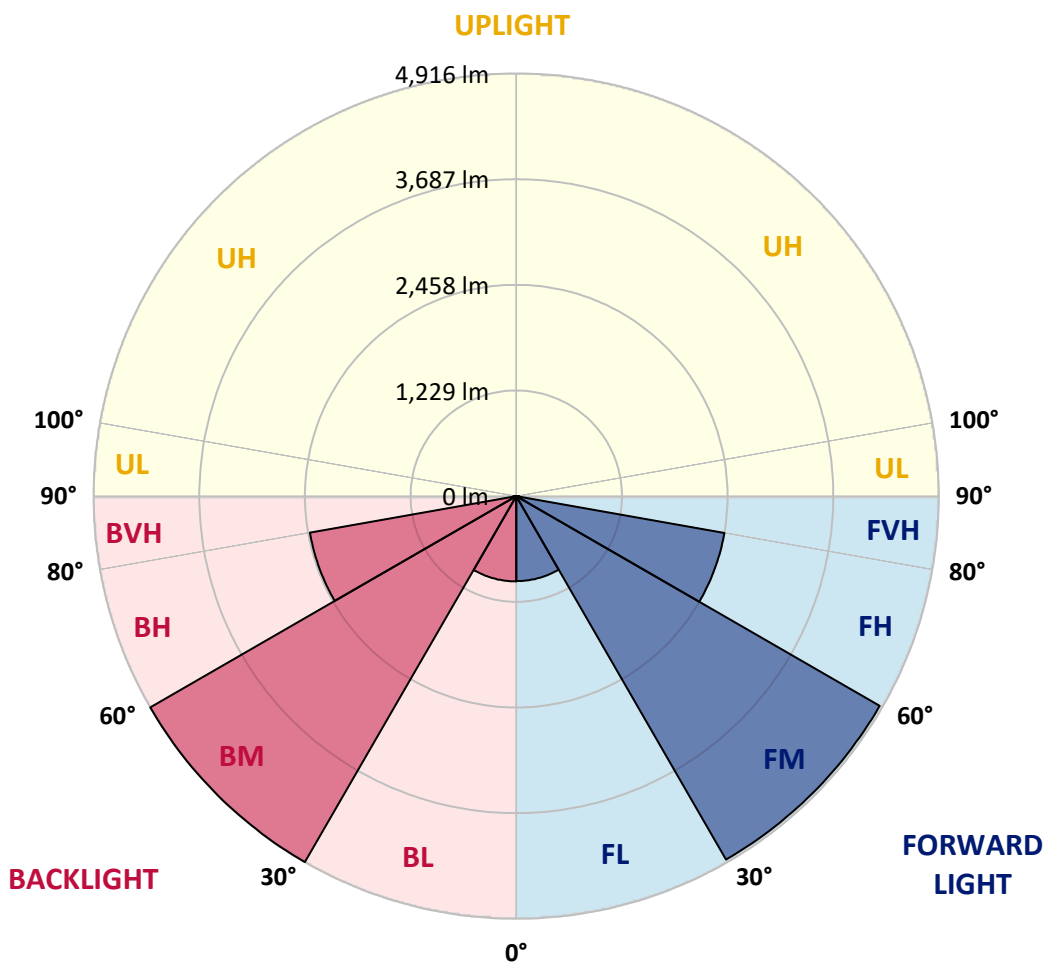
CATALOG NUMBER: IFLD-M-SA4B-827-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	988.3	5.9			
FM (30°-60°)	4880.7	29.1			
FH (60°-80°)	2459.2	14.7			G2/5000
FVH (80°-90°)	36.4	0.2			G1/100
BL (0°-30°)	992.1	5.9	B2/1000		
BM (30°-60°)	4915.9	29.4	B3/5000		
BH (60°-80°)	2438.0	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





REPORT NUMBER: P479074
 CATALOG NUMBER: IFLD-M-SA4B-827-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5
2.5°	1937.5	1941.3	1975.9	1962.4	1974.0	1952.8	1968.2	2000.8	1962.4	1991.2	2000.8
5°	1958.6	1964.4	1964.4	1977.8	1985.5	1981.6	1991.2	1977.8	2014.3	1998.9	2022.0
7.5°	2035.4	2025.8	2010.4	2022.0	2023.9	2033.5	2043.1	2060.4	2054.6	2041.2	2064.2
10°	2048.8	2041.2	2064.2	2066.1	2056.5	2048.8	2058.4	2058.4	2075.7	2079.6	2079.6
12.5°	2071.9	2079.6	2077.6	2093.0	2094.9	2089.2	2104.5	2133.3	2125.7	2131.4	2118.0
15°	2160.2	2150.6	2148.7	2164.1	2189.0	2152.5	2179.4	2177.5	2169.8	2181.3	2150.6
17.5°	2237.0	2206.3	2219.7	2244.7	2235.1	2242.8	2277.3	2246.6	2254.3	2240.9	2231.3
20°	2304.2	2279.3	2281.2	2290.8	2290.8	2313.8	2327.3	2315.8	2308.1	2306.2	2310.0
22.5°	2379.1	2350.3	2352.2	2392.6	2406.0	2398.3	2388.7	2407.9	2411.8	2396.4	2413.7
25°	2434.8	2465.5	2475.1	2494.3	2465.5	2486.6	2479.0	2515.5	2538.5	2507.8	2528.9
27.5°	2580.7	2567.3	2592.3	2590.3	2613.4	2592.3	2605.7	2617.2	2626.8	2628.7	2619.1
30°	2711.3	2717.1	2692.1	2759.3	2705.6	2740.1	2763.2	2768.9	2780.4	2780.4	2751.6
32.5°	2849.6	2838.0	2878.4	2863.0	2853.4	2880.3	2855.3	2934.1	2888.0	2914.9	2882.2
35°	3005.1	3005.1	3020.5	3062.7	3005.1	2987.8	3033.9	3066.5	3066.5	3018.5	3030.1
37.5°	3179.8	3164.5	3183.7	3237.4	3193.3	3135.7	3220.2	3233.6	3224.0	3210.6	3187.5
40°	3302.7	3298.9	3337.3	3408.3	3345.0	3333.5	3348.8	3385.3	3396.8	3410.3	3379.5
42.5°	3510.1	3527.4	3638.8	3621.5	3569.6	3529.3	3525.5	3661.8	3629.2	3594.6	3577.3
45°	3817.3	3802.0	3859.6	3861.5	3794.3	3706.0	3725.2	3850.0	3905.7	3828.9	3857.7
47.5°	4061.2	4068.9	4109.2	4191.8	4036.2	3944.1	4015.1	4216.7	4199.5	4170.7	4197.5
50°	4387.6	4422.2	4548.9	4520.1	4381.9	4268.6	4424.1	4614.2	4635.3	4529.7	4510.5
52.5°	4838.9	4892.6	4961.8	4984.8	4852.3	4812.0	4821.6	5057.8	5005.9	4904.2	4838.9
55°	5234.4	5259.4	5386.1	5576.2	5566.6	5372.7	5484.1	5572.4	5361.2	5151.9	5169.2
57.5°	5403.4	5414.9	5768.3	6148.5	6375.0	6419.2	6292.5	5994.8	5491.7	5088.5	5063.5
60°	4982.9	5092.3	5518.6	6377.0	7411.9	7922.7	7079.7	6042.8	5186.4	4696.8	4660.3
62.5°	3982.5	3988.2	4621.9	5923.8	8057.1	9395.5	7381.2	5591.6	4372.3	3817.3	3671.4
64°	2836.1	2889.9	3617.6	5244.0	7922.7	9994.6	7344.7	5002.1	3604.2	2816.9	2715.2
65°	2035.4	2110.3	2813.1	4552.8	7607.8	9923.6	7235.3	4495.2	2914.9	2150.6	2046.9
67.5°	748.9	779.6	1104.1	2277.3	5462.9	8456.5	5733.7	2471.3	1280.8	912.1	819.9
70°	347.6	349.5	409.0	752.7	2388.7	5655.0	2736.3	927.5	482.0	382.1	355.2
72.5°	255.4	261.1	286.1	347.6	702.8	2394.5	898.6	380.2	282.3	249.6	243.9
75°	207.4	211.2	218.9	251.5	324.5	641.3	364.8	263.1	224.7	201.6	193.9
77.5°	159.4	159.4	176.7	192.0	215.1	299.5	241.9	209.3	182.4	159.4	153.6
80°	115.2	117.1	138.3	149.8	145.9	197.8	174.7	172.8	149.8	124.8	115.2
82.5°	67.2	73.0	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	73.0	80.6	78.7	53.8	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



REPORT NUMBER: P479074
 CATALOG NUMBER: IFLD-M-SA4B-827-U-5N9

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5
2.5°	1991.2	1962.4	1964.4	1972.0	1947.1	1956.7	1985.5	1964.4	1958.6	1947.1	1941.3
5°	1981.6	2012.4	2000.8	2004.7	1998.9	1972.0	1968.2	1985.5	1995.1	1977.8	2012.4
7.5°	2048.8	2035.4	2020.0	2025.8	2012.4	2035.4	2050.8	2016.2	2033.5	2023.9	2004.7
10°	2087.2	2062.3	2073.8	2070.0	2060.4	2083.4	2068.0	2064.2	2048.8	2027.7	2058.4
12.5°	2100.7	2129.5	2148.7	2116.1	2121.8	2110.3	2100.7	2100.7	2083.4	2077.6	2083.4
15°	2160.2	2185.2	2177.5	2202.5	2169.8	2181.3	2192.9	2164.1	2179.4	2137.2	2169.8
17.5°	2269.7	2248.5	2275.4	2242.8	2254.3	2277.3	2240.9	2240.9	2252.4	2229.3	2200.5
20°	2338.8	2329.2	2319.6	2321.5	2302.3	2323.4	2311.9	2306.2	2288.9	2296.5	2311.9
22.5°	2404.1	2390.6	2394.5	2400.2	2413.7	2404.1	2398.3	2404.1	2361.8	2400.2	2346.5
25°	2484.7	2521.2	2509.7	2534.7	2496.2	2521.2	2519.3	2482.8	2505.9	2490.5	2479.0
27.5°	2619.1	2599.9	2617.2	2586.5	2613.4	2615.3	2592.3	2653.7	2626.8	2623.0	2615.3
30°	2792.0	2778.5	2767.0	2749.7	2770.8	2753.6	2772.8	2778.5	2753.6	2734.4	2697.9
32.5°	2889.9	2926.4	2939.8	2897.6	2899.5	2909.1	2891.8	2874.5	2889.9	2895.6	2889.9
35°	3028.1	3062.7	3070.4	3037.7	3020.5	3068.5	3033.9	3091.5	3041.6	3043.5	2991.7
37.5°	3189.4	3199.0	3264.3	3227.8	3212.5	3189.4	3252.8	3245.1	3256.6	3164.5	3210.6
40°	3371.9	3406.4	3442.9	3350.7	3348.8	3369.9	3366.1	3410.3	3389.1	3375.7	3343.1
42.5°	3571.6	3644.5	3650.3	3588.8	3550.4	3546.6	3565.8	3663.7	3665.6	3577.3	3538.9
45°	3836.5	3917.2	3896.1	3777.0	3734.8	3729.0	3823.1	3865.3	3901.8	3867.3	3834.6
47.5°	4166.8	4220.6	4205.2	4095.8	3959.4	3997.8	4090.0	4222.5	4184.1	4138.0	4099.6
50°	4520.1	4583.5	4550.9	4441.4	4310.8	4310.8	4424.1	4593.1	4581.6	4491.3	4456.8
52.5°	4911.9	5004.0	5078.9	4923.4	4813.9	4831.2	5009.8	5071.2	5042.4	4979.1	4950.3
55°	5203.7	5380.4	5534.0	5541.7	5547.4	5545.5	5591.6	5653.0	5447.6	5345.8	5242.1
57.5°	5132.7	5466.8	5992.9	6350.1	6455.7	6511.4	6496.0	6211.8	5726.0	5391.9	5426.5
60°	4625.7	5171.1	6019.8	7166.2	7934.2	7857.4	7577.1	6453.8	5572.4	5007.9	4936.8
62.5°	3690.6	4347.3	5568.6	7396.6	9512.6	9489.6	8022.6	5895.0	4643.0	3928.7	3884.5
64°	2780.4	3471.7	4967.5	7337.1	10065.6	10088.7	7909.3	5207.6	3633.0	2780.4	2713.2
65°	2127.6	2768.9	4378.0	7214.2	9946.6	9960.0	7594.4	4497.1	2761.2	1974.0	1901.0
67.5°	846.8	1179.0	2375.3	5470.6	8541.0	8504.5	5418.8	2175.6	1056.1	687.4	674.0
70°	361.0	449.3	833.4	2592.3	5718.3	5612.7	2333.0	706.6	391.7	328.4	326.4
72.5°	247.7	274.6	357.2	800.7	2377.2	2321.5	664.4	328.4	266.9	245.8	245.8
75°	199.7	218.9	259.2	336.0	629.8	606.8	313.0	241.9	213.1	197.8	195.9
77.5°	155.5	174.7	203.5	232.3	288.0	286.1	209.3	182.4	165.1	153.6	149.8
80°	122.9	142.1	161.3	165.1	188.2	184.3	142.1	144.0	134.4	111.4	109.5
82.5°	84.5	115.2	128.7	117.1	111.4	111.4	101.8	101.8	94.1	69.1	63.4
85°	51.8	76.8	80.6	69.1	51.8	51.8	55.7	53.8	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)