

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: P479230

Luminaire Tested: **IFLD-M-SA4B-727-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479230
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-727-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

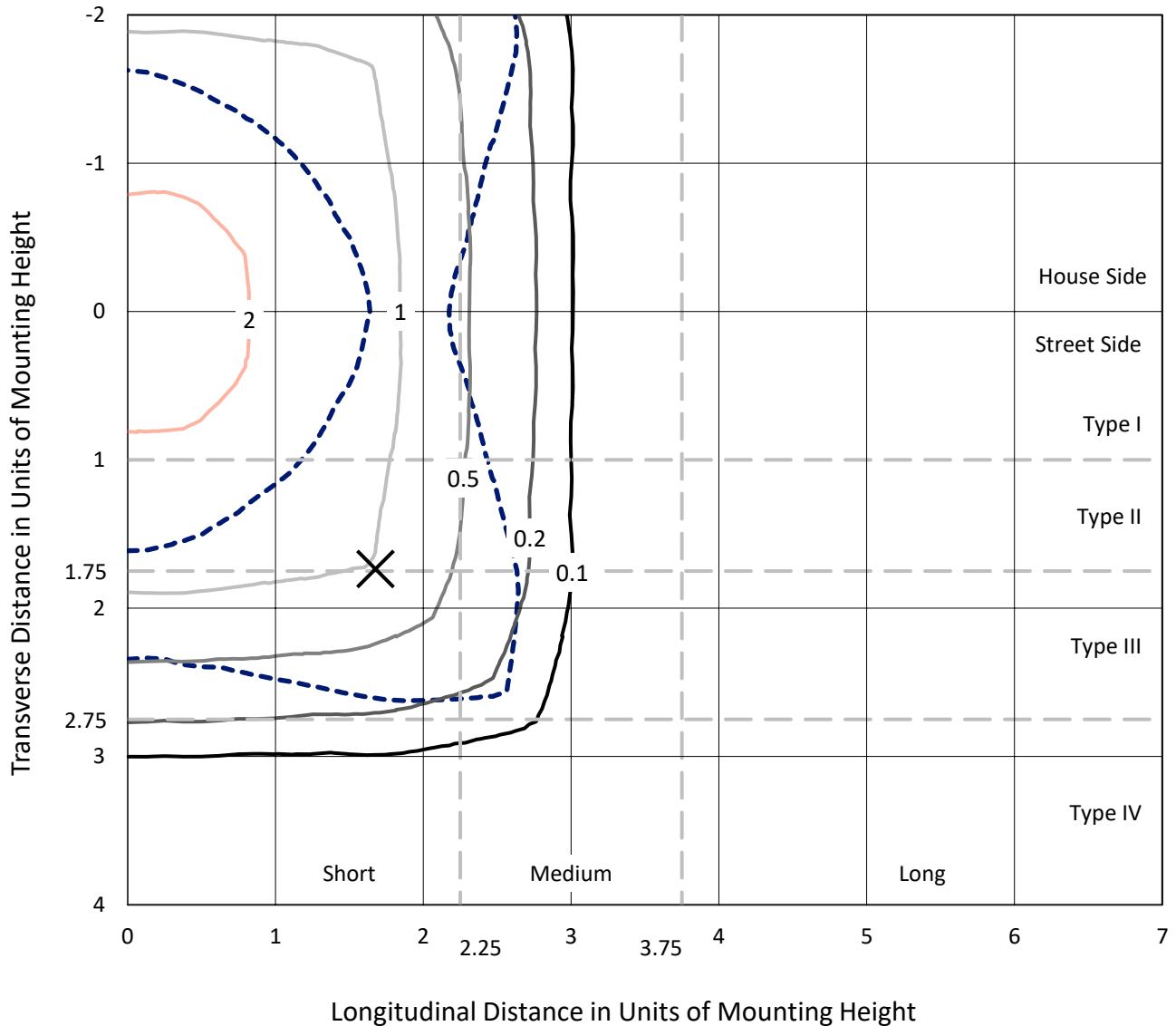
Lumens per Lamp: N/A
Luminaire Lumens: 19280.3 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 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

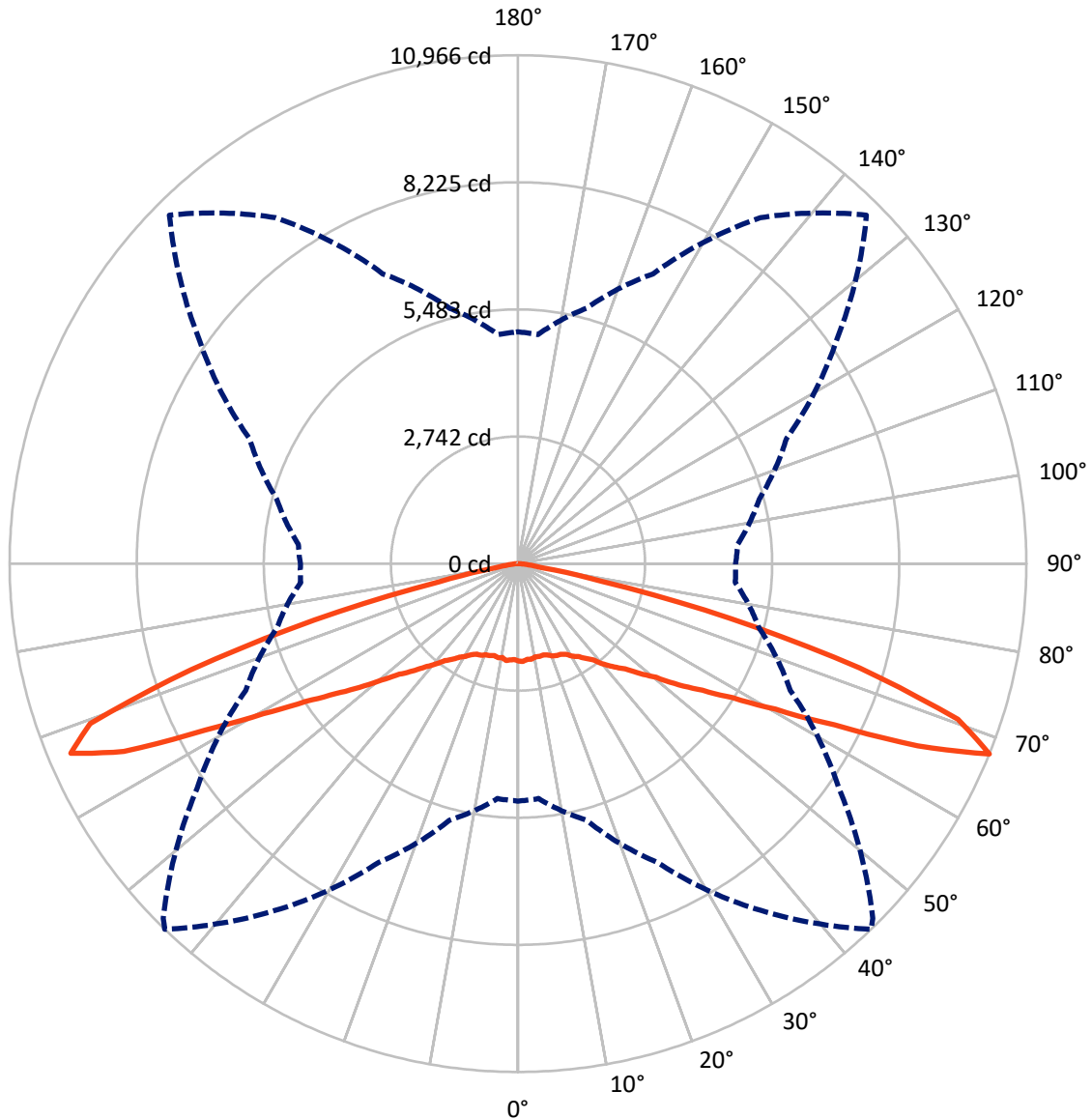
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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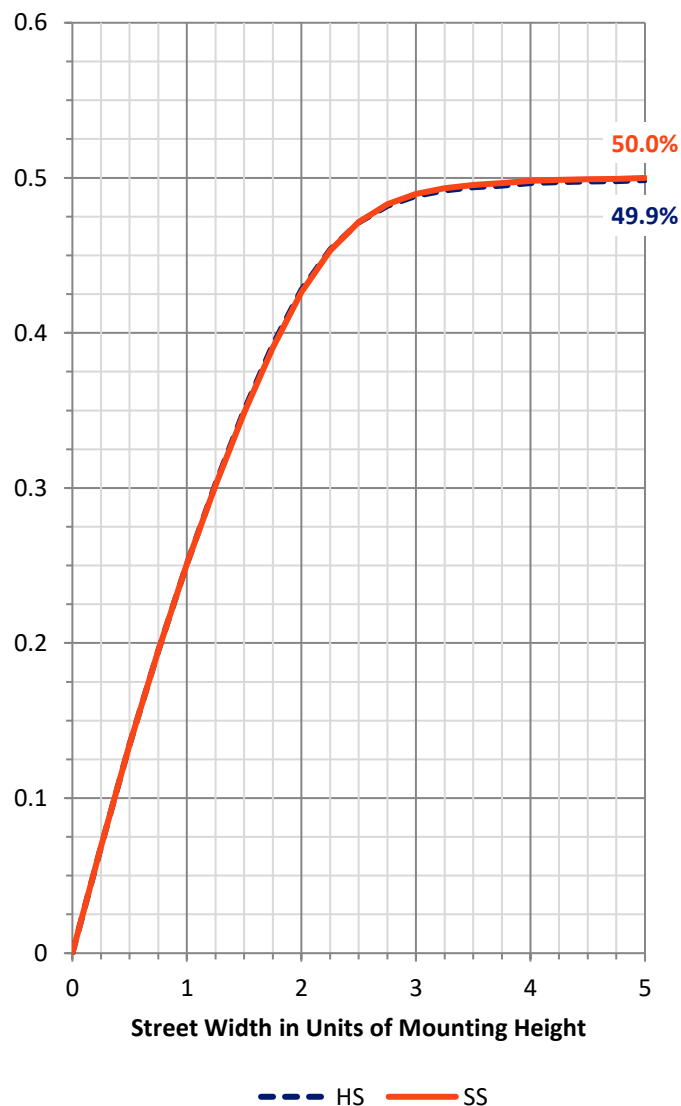
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9615.5	0.0	9615.5
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	9664.9	0.0	9664.9
	% Fixture	50.1	0.0	50.1
Total	Lumens	19280.3	0.0	19280.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.3	1.0
10°-20°	582.2	3.0
20°-30°	990.1	5.1
30°-40°	1569.9	8.1
40°-50°	2559.8	13.3
50°-60°	4371.8	22.7
60°-70°	6649.5	34.5
70°-80°	2241.3	11.6
80°-90°	116.4	0.6
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°	19280.3	100.0
0°-180°	19280.3	100.0

Coefficient of Utilization



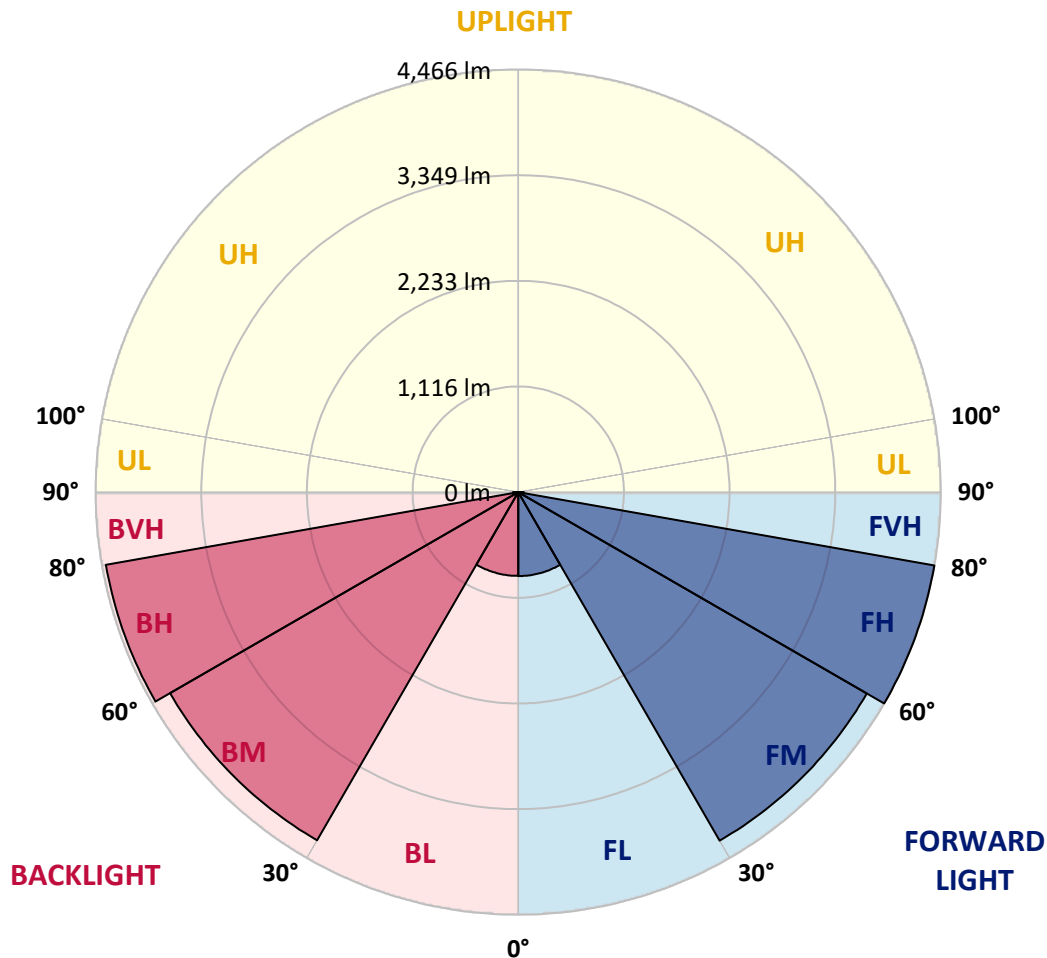
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	886.7	4.6			
FM (30°-60°)	4253.1	22.1			
FH (60°-80°)	4465.5	23.2			G2/5000
FVH (80°-90°)	59.5	0.3			G1/100
BL (0°-30°)	884.9	4.6	B2/1000		
BM (30°-60°)	4248.5	22.0	B3/5000		
BH (60°-80°)	4425.3	23.0	B4/5000		G2/5000
BVH (80°-90°)	56.8	0.3			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°	44°	45°	55°	65°	75°	85°
0°	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0
2.5°	2057.6	2081.8	2099.4	2097.2	2103.8	2110.4	2101.6	2114.8	2106.0	2121.4	2130.3
5°	2097.2	2090.6	2092.8	2079.6	2110.4	2075.2	2075.2	2092.8	2114.8	2088.4	2103.8
7.5°	2073.0	2068.6	2057.6	2077.4	2084.0	2084.0	2101.6	2068.6	2106.0	2114.8	2117.0
10°	2046.6	2022.4	2055.4	2075.2	2079.6	2044.4	2059.8	2068.6	2057.6	2068.6	2075.2
12.5°	2024.6	2037.8	2037.8	2037.8	2031.2	2055.4	2070.8	2068.6	2046.6	2066.4	2031.2
15°	2022.4	2015.8	2035.6	2053.2	2042.2	2046.6	2053.2	2073.0	2031.2	2040.0	2040.0
17.5°	2020.2	2029.0	2035.6	2033.4	2070.8	2070.8	2064.2	2051.0	2084.0	2066.4	2042.2
20°	2029.0	2022.4	2040.0	2046.6	2073.0	2125.9	2106.0	2095.0	2077.4	2055.4	2055.4
22.5°	2040.0	2035.6	2059.8	2088.4	2139.1	2152.3	2150.1	2136.9	2106.0	2079.6	2075.2
25°	2079.6	2040.0	2066.4	2121.4	2139.1	2165.5	2183.1	2165.5	2123.7	2130.3	2090.6
27.5°	2139.1	2132.5	2167.7	2205.1	2189.7	2213.9	2198.5	2211.7	2213.9	2180.9	2141.3
30°	2209.5	2189.7	2211.7	2284.3	2290.9	2317.3	2290.9	2255.7	2266.7	2238.1	2218.3
32.5°	2310.7	2304.1	2345.9	2394.3	2403.1	2389.9	2376.7	2396.5	2350.3	2328.3	2293.1
35°	2376.7	2405.3	2456.0	2493.4	2522.0	2508.8	2515.4	2495.6	2506.6	2460.4	2444.9
37.5°	2572.6	2561.6	2572.6	2636.4	2643.0	2636.4	2643.0	2665.0	2649.6	2610.0	2570.4
40°	2757.4	2739.8	2766.2	2838.9	2834.5	2856.5	2812.5	2836.7	2836.7	2761.8	2746.4
42.5°	2896.1	2955.5	2986.3	3045.7	3067.7	3047.9	3039.1	3043.5	3091.9	3003.9	2970.9
45°	3182.2	3180.0	3272.4	3305.4	3243.8	3239.4	3221.8	3274.6	3307.6	3257.0	3243.8
47.5°	3492.5	3507.9	3560.7	3573.9	3611.3	3543.1	3543.1	3549.7	3666.3	3547.5	3485.9
50°	3772.0	3791.8	3897.4	4000.8	3930.4	3857.8	3886.4	3921.6	3985.4	3873.2	3820.4
52.5°	4110.9	4218.7	4289.1	4344.1	4394.7	4344.1	4278.1	4317.7	4443.2	4293.5	4227.5
55°	4599.4	4685.2	4751.3	4852.5	4894.3	4826.1	4819.5	4815.1	4885.5	4727.0	4636.8
57.5°	5145.2	5110.0	5215.6	5371.8	5523.7	5457.7	5437.9	5442.3	5459.9	5235.4	5167.2
60°	5823.0	5862.6	5988.0	6124.5	6285.1	6377.6	6247.7	6172.9	6188.3	5882.4	5776.8
62.5°	6210.3	6298.3	6582.2	7051.0	7374.5	7662.7	7682.6	7196.2	6870.5	6276.3	5827.4
65°	6023.2	6010.0	6544.8	7411.9	8637.6	9476.1	9350.7	8171.1	7033.4	6089.3	5486.3
67.5°	5123.2	5088.0	5735.0	7110.4	9135.0	10966.0	10822.9	8446.2	6483.2	5387.2	4705.0
70°	3301.0	3292.2	3994.2	5420.3	8155.7	10068.1	10120.9	7671.5	5277.2	3945.8	3270.2
72.5°	1199.4	1272.0	1679.1	2913.7	5539.1	7702.4	7735.4	5679.9	3034.7	1824.4	1344.6
75°	442.3	455.5	530.4	946.3	2524.2	4729.2	4852.5	2755.2	1078.3	594.2	484.1
77.5°	255.3	257.5	283.9	352.1	748.2	1846.4	1921.2	836.3	418.1	316.9	292.7
80°	173.9	171.7	200.3	228.9	299.3	523.8	556.8	349.9	264.1	220.1	184.9
82.5°	101.2	107.8	147.4	162.8	182.7	231.1	235.5	217.9	198.1	162.8	121.0
85°	61.6	50.6	81.4	90.2	105.6	103.4	103.4	118.8	127.6	114.4	68.2
87.5°	15.4	15.4	19.8	22.0	28.6	22.0	24.2	46.2	61.6	57.2	35.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0
2.5°	2110.4	2103.8	2108.2	2132.5	2117.0	2070.8	2081.8	2106.0	2086.2	2075.2	2073.0
5°	2101.6	2114.8	2099.4	2103.8	2119.2	2081.8	2088.4	2119.2	2106.0	2110.4	2086.2
7.5°	2103.8	2110.4	2097.2	2077.4	2077.4	2108.2	2090.6	2095.0	2075.2	2108.2	2064.2
10°	2090.6	2073.0	2057.6	2068.6	2064.2	2055.4	2048.8	2062.0	2042.2	2070.8	2040.0
12.5°	2051.0	2055.4	2051.0	2046.6	2055.4	2077.4	2042.2	2046.6	2015.8	2020.2	2035.6
15°	2035.6	2048.8	2044.4	2068.6	2079.6	2046.6	2073.0	2046.6	2022.4	2009.2	2033.4
17.5°	2042.2	2062.0	2055.4	2073.0	2053.2	2077.4	2081.8	2070.8	2042.2	2031.2	2042.2
20°	2048.8	2042.2	2051.0	2081.8	2110.4	2086.2	2086.2	2079.6	2053.2	2037.8	2037.8
22.5°	2064.2	2053.2	2066.4	2090.6	2099.4	2136.9	2103.8	2088.4	2044.4	2004.8	2042.2
25°	2095.0	2101.6	2110.4	2101.6	2150.1	2145.7	2141.3	2130.3	2062.0	2064.2	2057.6
27.5°	2154.5	2117.0	2128.1	2180.9	2187.5	2205.1	2183.1	2202.9	2130.3	2132.5	2088.4
30°	2227.1	2187.5	2222.7	2268.9	2266.7	2299.7	2288.7	2293.1	2242.5	2213.9	2154.5
32.5°	2306.3	2301.9	2323.9	2352.5	2363.5	2381.1	2378.9	2378.9	2348.1	2273.3	2284.3
35°	2394.3	2425.1	2451.6	2482.4	2486.8	2508.8	2478.0	2482.4	2451.6	2396.5	2414.1
37.5°	2568.2	2566.0	2594.6	2632.0	2636.4	2618.8	2643.0	2632.0	2590.2	2552.8	2524.2
40°	2770.6	2726.6	2753.0	2841.1	2847.7	2816.9	2814.7	2812.5	2781.7	2700.2	2682.6
42.5°	2946.7	3003.9	2999.5	3028.1	3008.3	2992.9	3047.9	3017.1	2992.9	2907.1	2891.7
45°	3173.4	3191.0	3248.2	3340.6	3246.0	3246.0	3283.4	3259.2	3246.0	3182.2	3122.8
47.5°	3455.1	3470.5	3584.9	3591.5	3529.9	3488.1	3604.7	3609.1	3554.1	3505.7	3433.1
50°	3785.2	3791.8	3895.2	4000.8	3932.6	3853.4	3972.2	4018.4	3895.2	3829.2	3738.9
52.5°	4148.3	4128.5	4214.3	4412.4	4346.3	4322.1	4449.8	4460.8	4293.5	4190.1	4214.3
55°	4566.4	4540.0	4773.3	4907.5	4865.7	4821.7	4878.9	4905.3	4771.1	4601.6	4661.0
57.5°	5107.8	5121.0	5237.6	5369.6	5437.9	5448.9	5475.3	5448.9	5312.4	5140.8	5085.8
60°	5649.1	5688.7	5915.4	6164.1	6186.1	6379.8	6344.5	6212.5	6018.8	5774.6	5785.6
62.5°	5849.4	5816.4	6181.7	6789.1	7306.2	7660.5	7504.3	7035.6	6586.6	6142.1	6175.1
65°	5446.7	5528.1	6025.4	6976.1	8098.5	9500.3	8668.5	7372.3	6465.6	5891.2	5827.4
67.5°	4694.0	4755.7	5387.2	6390.8	8382.4	10631.5	9108.6	6896.9	5701.9	4958.1	4997.7
70°	3270.2	3301.0	3919.4	5235.4	7601.1	10032.9	8217.3	5297.0	3937.0	3138.2	3182.2
72.5°	1316.0	1390.8	1798.0	3153.6	5611.7	7623.1	5532.5	2779.5	1632.9	1214.8	1102.5
75°	486.3	488.5	574.4	1084.9	2665.0	4790.9	2495.6	893.5	521.6	426.9	407.1
77.5°	281.7	279.5	299.3	391.7	772.4	1870.6	708.6	349.9	283.9	255.3	244.3
80°	176.1	173.9	204.7	259.7	338.9	512.8	299.3	217.9	191.5	165.1	165.1
82.5°	112.2	114.4	160.6	191.5	206.9	226.7	173.9	154.0	143.0	94.6	92.4
85°	72.6	66.0	112.2	127.6	114.4	101.2	96.8	81.4	74.8	46.2	50.6
87.5°	33.0	35.2	57.2	63.8	41.8	24.2	24.2	17.6	17.6	11.0	11.0
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)