

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: P479192

Luminaire Tested: **IFLD-M-SA4C-722-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479192
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-722-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21139.8 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

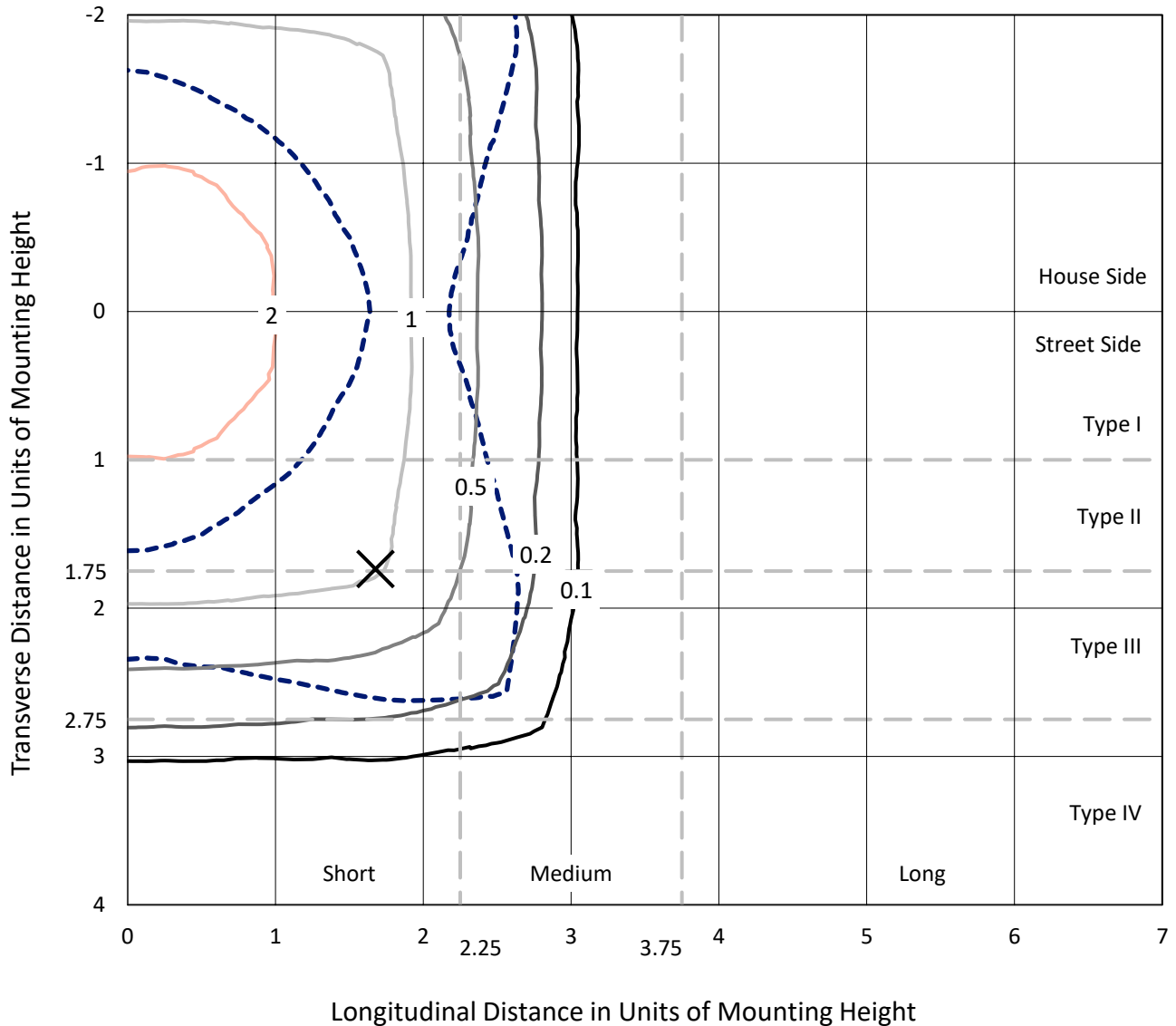
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

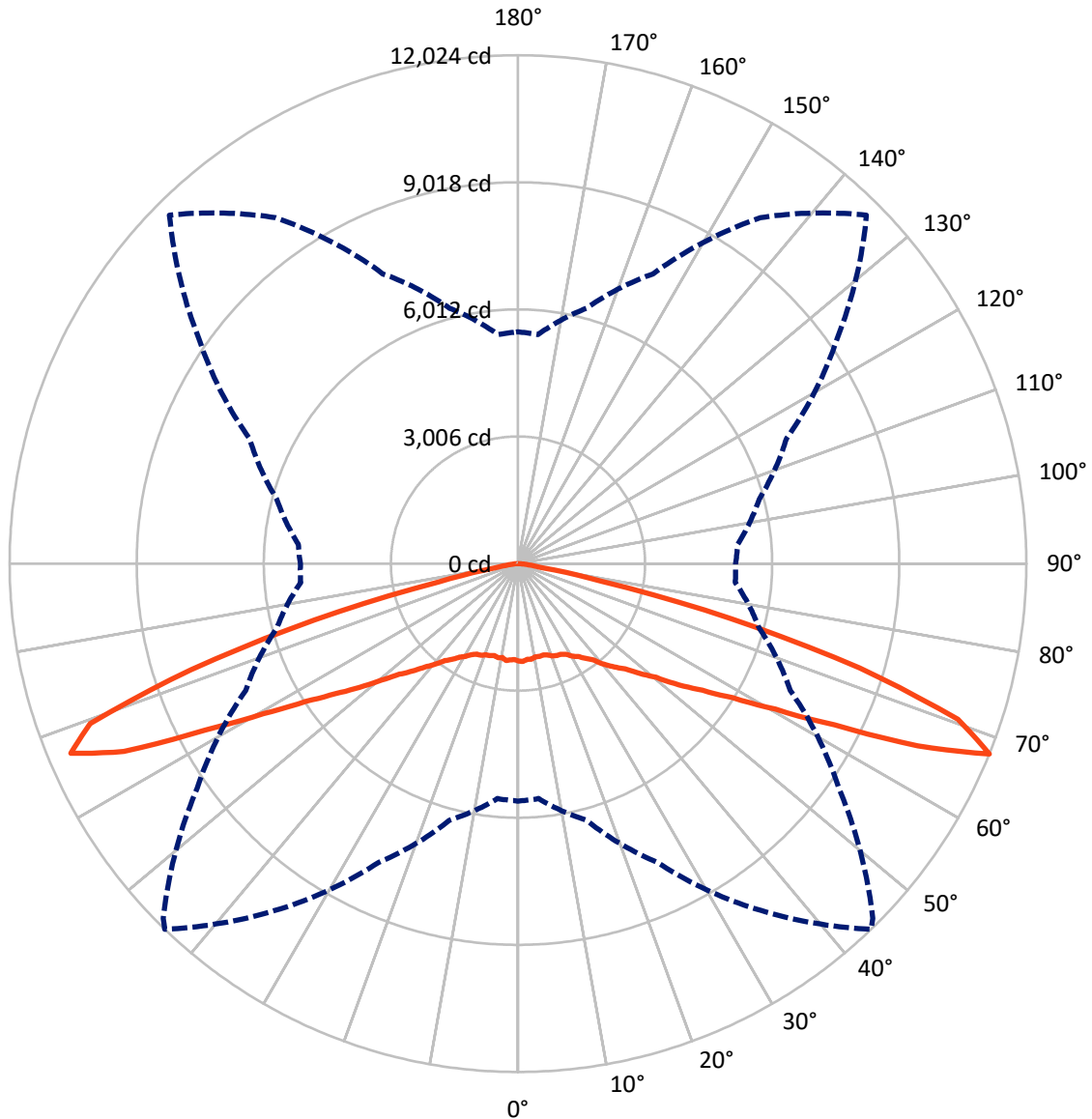
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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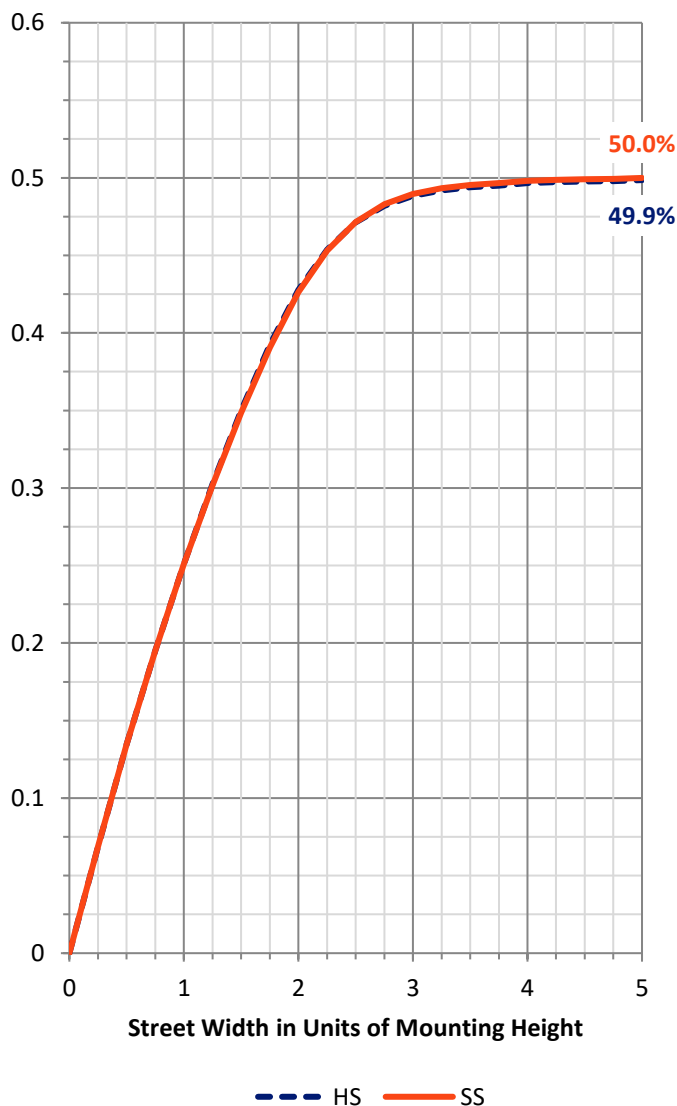
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10542.8	0.0	10542.8
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	10597.0	0.0	10597.0
	% Fixture	50.1	0.0	50.1
Total	Lumens	21139.8	0.0	21139.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.5	1.0
10°-20°	638.4	3.0
20°-30°	1085.6	5.1
30°-40°	1721.3	8.1
40°-50°	2806.7	13.3
50°-60°	4793.5	22.7
60°-70°	7290.8	34.5
70°-80°	2457.5	11.6
80°-90°	127.6	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°	21139.8	100.0
0°-180°	21139.8	100.0

Coefficient of Utilization



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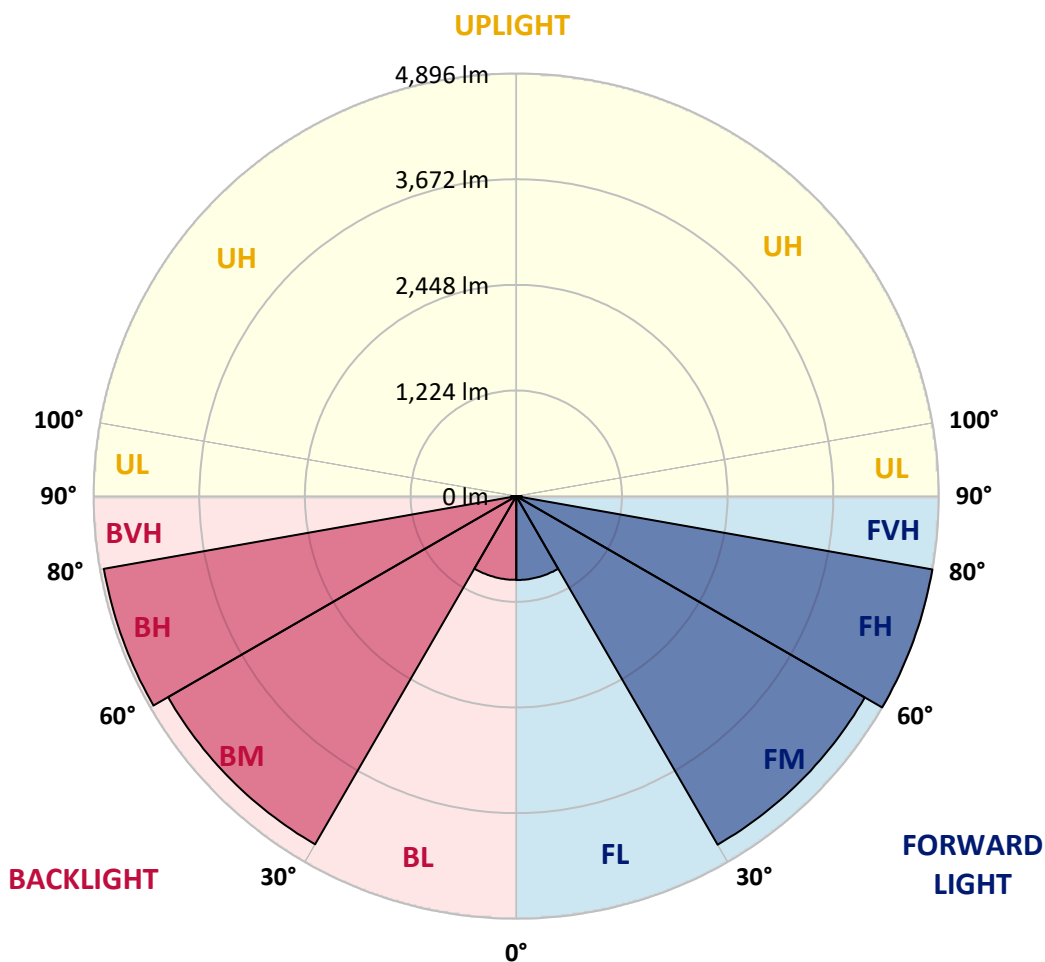
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	972.3	4.6			
FM (30°-60°)	4663.2	22.1			
FH (60°-80°)	4896.2	23.2			G2/5000
FVH (80°-90°)	65.3	0.3			G1/100
BL (0°-30°)	970.3	4.6	B2/1000		
BM (30°-60°)	4658.2	22.0	B3/5000		
BH (60°-80°)	4852.1	23.0	B4/5000		G2/5000
BVH (80°-90°)	62.3	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°	2309.2	2309.2	2309.2	2309.2	2309.2	2309.2	2309.2	2309.2	2309.2	2309.2	2309.2
2.5°	2256.1	2282.6	2301.9	2299.5	2306.7	2314.0	2304.3	2318.8	2309.2	2326.1	2335.7
5°	2299.5	2292.3	2294.7	2280.2	2314.0	2275.4	2275.4	2294.7	2318.8	2289.9	2306.7
7.5°	2273.0	2268.1	2256.1	2277.8	2285.0	2285.0	2304.3	2268.1	2309.2	2318.8	2321.2
10°	2244.0	2217.5	2253.7	2275.4	2280.2	2241.6	2258.5	2268.1	2256.1	2268.1	2275.4
12.5°	2219.9	2234.4	2234.4	2234.4	2227.1	2253.7	2270.6	2268.1	2244.0	2265.7	2227.1
15°	2217.5	2210.2	2231.9	2251.3	2239.2	2244.0	2251.3	2273.0	2227.1	2236.8	2236.8
17.5°	2215.1	2224.7	2231.9	2229.5	2270.6	2270.6	2263.3	2248.8	2285.0	2265.7	2239.2
20°	2224.7	2217.5	2236.8	2244.0	2273.0	2330.9	2309.2	2297.1	2277.8	2253.7	2253.7
22.5°	2236.8	2231.9	2258.5	2289.9	2345.4	2359.8	2357.4	2342.9	2309.2	2280.2	2275.4
25°	2280.2	2236.8	2265.7	2326.1	2345.4	2374.3	2393.6	2374.3	2328.5	2335.7	2292.3
27.5°	2345.4	2338.1	2376.7	2417.7	2400.9	2427.4	2410.5	2425.0	2427.4	2391.2	2347.8
30°	2422.6	2400.9	2425.0	2504.6	2511.8	2540.8	2511.8	2473.2	2485.3	2453.9	2432.2
32.5°	2533.6	2526.3	2572.2	2625.3	2634.9	2620.4	2605.9	2627.7	2577.0	2552.9	2514.3
35°	2605.9	2637.3	2692.8	2733.8	2765.2	2750.7	2758.0	2736.2	2748.3	2697.6	2680.8
37.5°	2820.7	2808.6	2820.7	2890.7	2897.9	2890.7	2897.9	2922.0	2905.2	2861.7	2818.3
40°	3023.4	3004.1	3033.0	3112.7	3107.8	3132.0	3083.7	3110.2	3110.2	3028.2	3011.3
42.5°	3175.4	3240.5	3274.3	3339.5	3363.6	3341.9	3332.2	3337.1	3390.1	3293.6	3257.4
45°	3489.1	3486.7	3588.0	3624.2	3556.6	3551.8	3532.5	3590.4	3626.6	3571.1	3556.6
47.5°	3829.3	3846.2	3904.1	3918.6	3959.6	3884.8	3884.8	3892.0	4019.9	3889.6	3822.1
50°	4135.7	4157.5	4273.3	4386.7	4309.5	4229.8	4261.2	4299.8	4369.8	4246.7	4188.8
52.5°	4507.3	4625.6	4702.8	4763.1	4818.6	4763.1	4690.7	4734.1	4871.7	4707.6	4635.2
55°	5043.0	5137.1	5209.5	5320.5	5366.3	5291.5	5284.3	5279.5	5356.7	5182.9	5084.0
57.5°	5641.4	5602.8	5718.6	5889.9	6056.4	5984.0	5962.3	5967.1	5986.4	5740.3	5665.5
60°	6384.6	6428.0	6565.5	6715.1	6891.3	6992.6	6850.3	6768.2	6785.1	6449.7	6333.9
62.5°	6809.3	6905.8	7217.0	7731.0	8085.7	8401.8	8423.5	7890.2	7533.1	6881.6	6389.4
65°	6604.2	6589.7	7176.0	8126.7	9470.7	10390.0	10252.5	8959.2	7711.7	6676.5	6015.4
67.5°	5617.3	5578.7	6288.1	7796.1	10016.0	12023.6	11866.7	9260.8	7108.5	5906.8	5158.8
70°	3619.4	3609.7	4379.4	5943.0	8942.3	11039.1	11097.0	8411.4	5786.2	4326.4	3585.6
72.5°	1315.0	1394.7	1841.1	3194.7	6073.3	8445.2	8481.4	6227.7	3327.4	2000.3	1474.3
75°	485.0	499.5	581.5	1037.6	2767.6	5185.4	5320.5	3021.0	1182.3	651.5	530.8
77.5°	279.9	282.3	311.3	386.1	820.4	2024.4	2106.5	916.9	458.5	347.5	320.9
80°	190.6	188.2	219.6	250.9	328.2	574.3	610.5	383.7	289.5	241.3	202.7
82.5°	111.0	118.2	161.7	178.6	200.3	253.4	258.2	238.9	217.2	178.6	132.7
85°	67.6	55.5	89.3	98.9	115.8	113.4	113.4	130.3	139.9	125.5	74.8
87.5°	16.9	16.9	21.7	24.1	31.4	24.1	26.5	50.7	67.6	62.7	38.6
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°	2309.2	2309.2	2309.2	2309.2	2309.2	2309.2	2309.2	2309.2	2309.2	2309.2	2309.2
2.5°	2314.0	2306.7	2311.6	2338.1	2321.2	2270.6	2282.6	2309.2	2287.4	2275.4	2273.0
5°	2304.3	2318.8	2301.9	2306.7	2323.6	2282.6	2289.9	2323.6	2309.2	2314.0	2287.4
7.5°	2306.7	2314.0	2299.5	2277.8	2277.8	2311.6	2292.3	2297.1	2275.4	2311.6	2263.3
10°	2292.3	2273.0	2256.1	2268.1	2263.3	2253.7	2246.4	2260.9	2239.2	2270.6	2236.8
12.5°	2248.8	2253.7	2248.8	2244.0	2253.7	2277.8	2239.2	2244.0	2210.2	2215.1	2231.9
15°	2231.9	2246.4	2241.6	2268.1	2280.2	2244.0	2273.0	2244.0	2217.5	2203.0	2229.5
17.5°	2239.2	2260.9	2253.7	2273.0	2251.3	2277.8	2282.6	2270.6	2239.2	2227.1	2239.2
20°	2246.4	2239.2	2248.8	2282.6	2314.0	2287.4	2287.4	2280.2	2251.3	2234.4	2234.4
22.5°	2263.3	2251.3	2265.7	2292.3	2301.9	2342.9	2306.7	2289.9	2241.6	2198.2	2239.2
25°	2297.1	2304.3	2314.0	2304.3	2357.4	2352.6	2347.8	2335.7	2260.9	2263.3	2256.1
27.5°	2362.2	2321.2	2333.3	2391.2	2398.4	2417.7	2393.6	2415.3	2335.7	2338.1	2289.9
30°	2441.9	2398.4	2437.0	2487.7	2485.3	2521.5	2509.4	2514.3	2458.8	2427.4	2362.2
32.5°	2528.7	2523.9	2548.0	2579.4	2591.5	2610.8	2608.4	2608.4	2574.6	2492.5	2504.6
35°	2625.3	2659.0	2688.0	2721.8	2726.6	2750.7	2716.9	2721.8	2688.0	2627.7	2647.0
37.5°	2815.9	2813.5	2844.8	2885.8	2890.7	2871.4	2897.9	2885.8	2840.0	2799.0	2767.6
40°	3037.9	2989.6	3018.6	3115.1	3122.3	3088.5	3086.1	3083.7	3049.9	2960.6	2941.3
42.5°	3230.9	3293.6	3288.8	3320.2	3298.5	3281.6	3341.9	3308.1	3281.6	3187.5	3170.6
45°	3479.4	3498.7	3561.5	3662.8	3559.1	3559.1	3600.1	3573.5	3559.1	3489.1	3423.9
47.5°	3788.3	3805.2	3930.6	3937.9	3870.3	3824.5	3952.4	3957.2	3896.9	3843.8	3764.1
50°	4150.2	4157.5	4270.9	4386.7	4311.9	4225.0	4355.3	4406.0	4270.9	4198.5	4099.5
52.5°	4548.3	4526.6	4620.7	4837.9	4765.5	4739.0	4878.9	4891.0	4707.6	4594.2	4620.7
55°	5006.8	4977.8	5233.6	5380.8	5335.0	5286.7	5349.4	5378.4	5231.2	5045.4	5110.6
57.5°	5600.4	5614.9	5742.7	5887.5	5962.3	5974.4	6003.3	5974.4	5824.8	5636.6	5576.2
60°	6194.0	6237.4	6485.9	6758.6	6782.7	6995.0	6956.4	6811.7	6599.3	6331.5	6343.6
62.5°	6413.5	6377.3	6777.9	7443.8	8010.9	8399.4	8228.0	7714.1	7221.9	6734.4	6770.6
65°	5972.0	6061.2	6606.6	7648.9	8879.5	10416.6	9504.5	8083.3	7089.1	6459.4	6389.4
67.5°	5146.8	5214.3	5906.8	7007.1	9190.8	11656.8	9987.1	7562.1	6251.9	5436.3	5479.7
70°	3585.6	3619.4	4297.4	5740.3	8334.2	11000.5	9009.8	5807.9	4316.7	3440.8	3489.1
72.5°	1442.9	1525.0	1971.4	3457.7	6152.9	8358.3	6066.1	3047.5	1790.4	1331.9	1208.9
75°	533.3	535.7	629.8	1189.6	2922.0	5252.9	2736.2	979.6	571.9	468.1	446.4
77.5°	308.9	306.4	328.2	429.5	846.9	2051.0	777.0	383.7	311.3	279.9	267.8
80°	193.0	190.6	224.4	284.7	371.6	562.2	328.2	238.9	209.9	181.0	181.0
82.5°	123.1	125.5	176.1	209.9	226.8	248.5	190.6	168.9	156.8	103.8	101.3
85°	79.6	72.4	123.1	139.9	125.5	111.0	106.2	89.3	82.0	50.7	55.5
87.5°	36.2	38.6	62.7	70.0	45.8	26.5	26.5	19.3	19.3	12.1	12.1
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)