

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: P479465

Luminaire Tested: **IFLD-M-SA4C-827-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479465
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-827-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

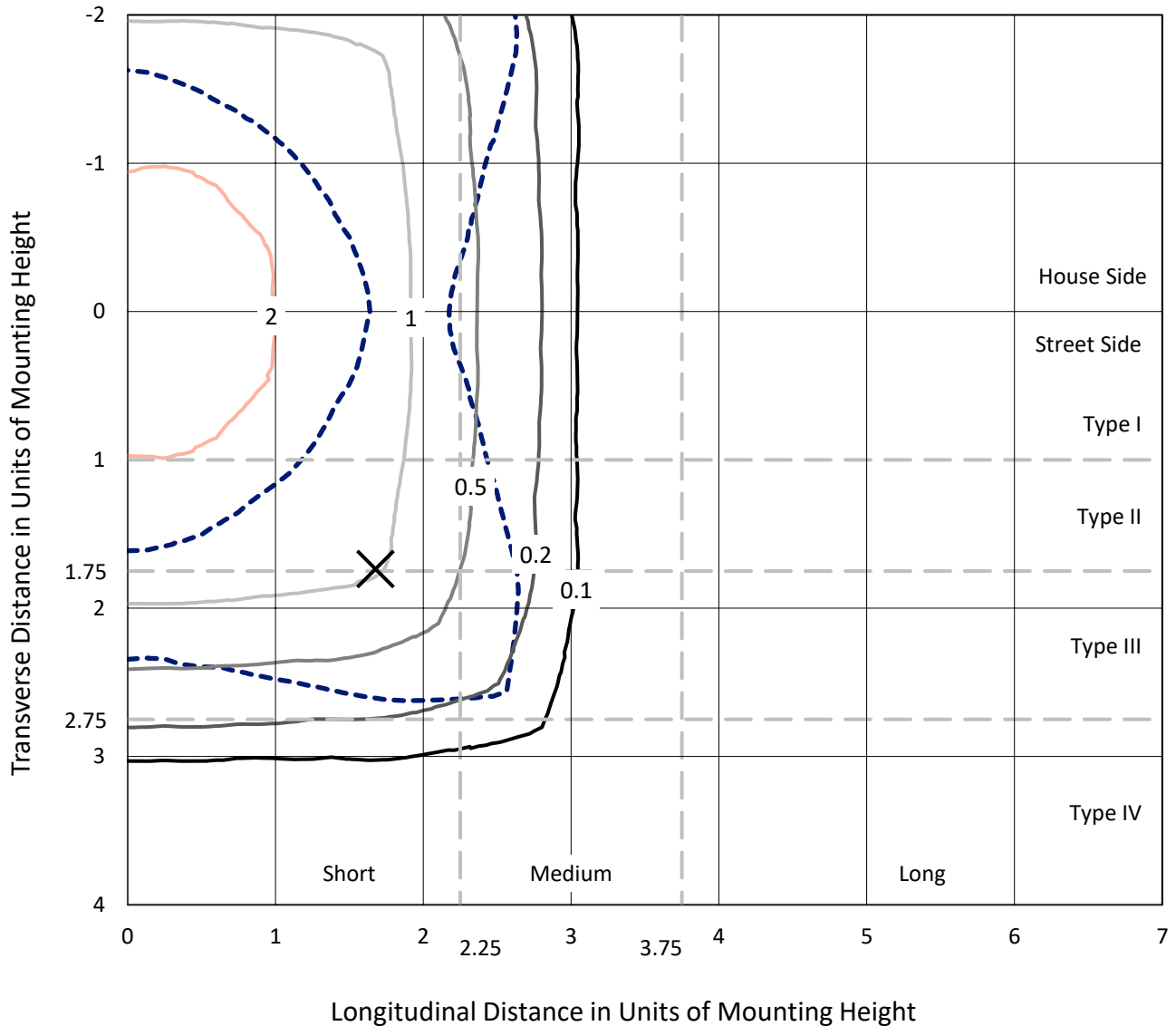
Lumens per Lamp: N/A
Luminaire Lumens: 21096.8 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

REPORT NUMBER: P479465
 CATALOG NUMBER: IFLD-M-SA4C-827-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

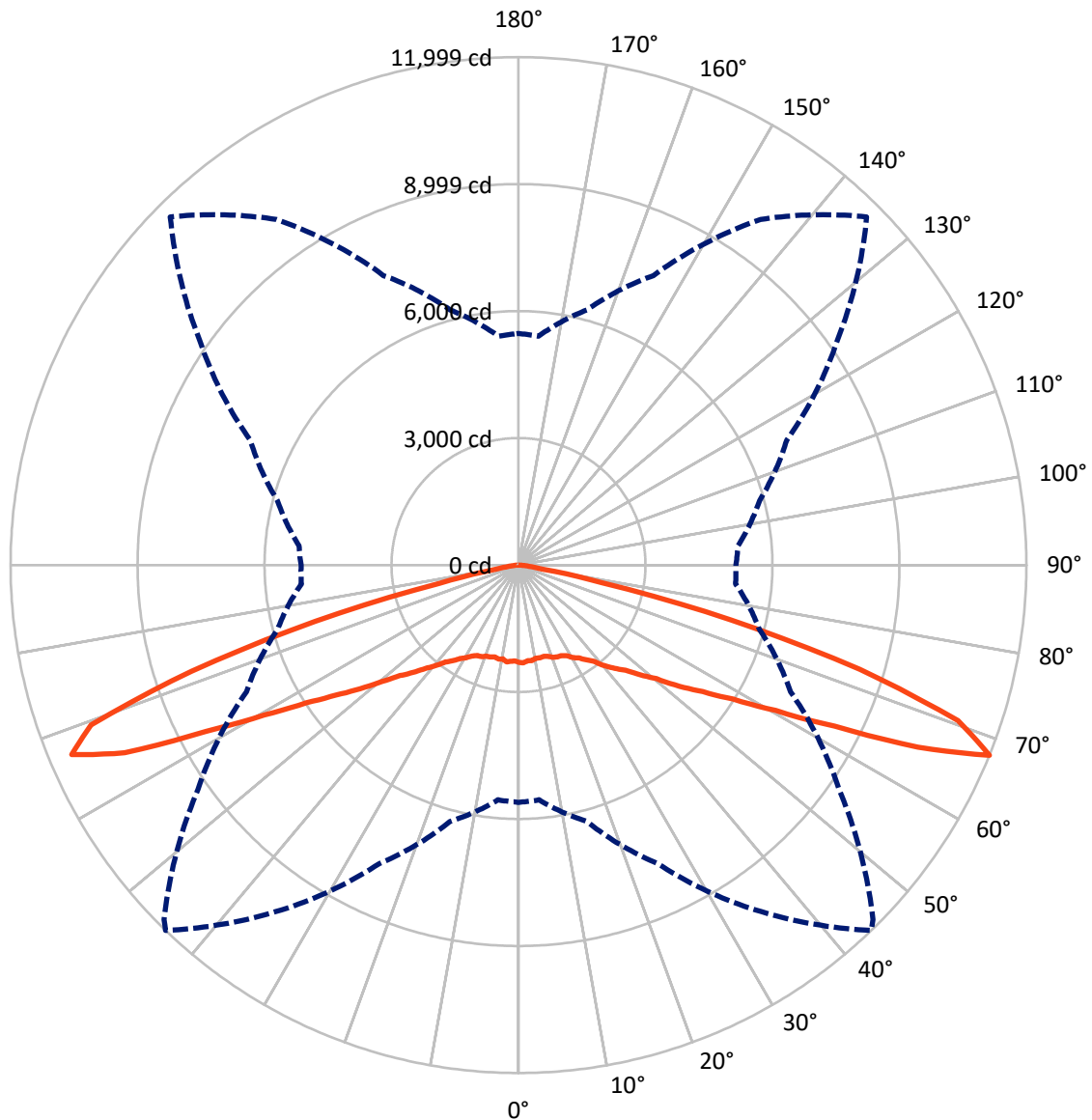
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - N/A

REPORT NUMBER: P479465
CATALOG NUMBER: IFLD-M-SA4C-827-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P479465
 CATALOG NUMBER: IFLD-M-SA4C-827-U-5MQ

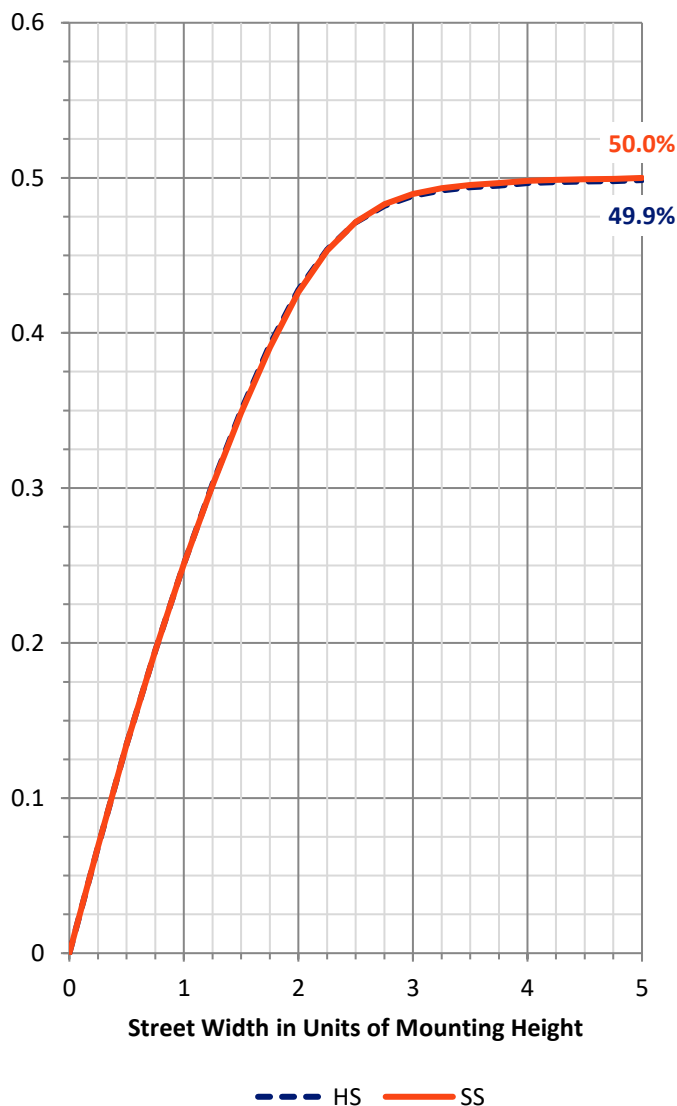
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10521.4	0.0	10521.4
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	10575.4	0.0	10575.4
	% Fixture	50.1	0.0	50.1
Total	Lumens	21096.8	0.0	21096.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.1	1.0
10°-20°	637.1	3.0
20°-30°	1083.4	5.1
30°-40°	1717.8	8.1
40°-50°	2801.0	13.3
50°-60°	4783.7	22.7
60°-70°	7276.0	34.5
70°-80°	2452.4	11.6
80°-90°	127.3	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°	21096.8	100.0
0°-180°	21096.8	100.0

Coefficient of Utilization



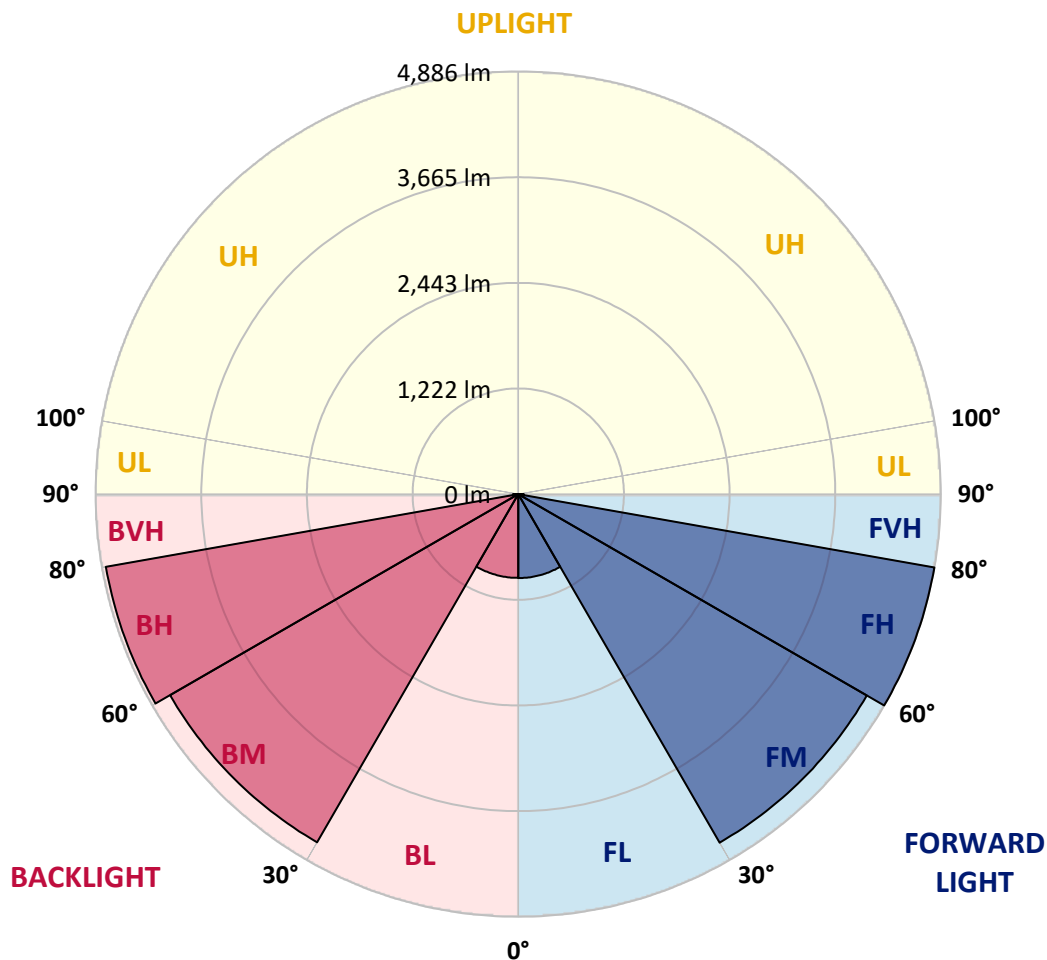
REPORT NUMBER: P479465
 CATALOG NUMBER: IFLD-M-SA4C-827-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	970.3	4.6			
FM (30°-60°)	4653.7	22.1			
FH (60°-80°)	4886.2	23.2			G2/5000
FVH (80°-90°)	65.1	0.3			G1/100
BL (0°-30°)	968.3	4.6	B2/1000		
BM (30°-60°)	4648.7	22.0	B3/5000		
BH (60°-80°)	4842.2	23.0	B4/5000		G2/5000
BVH (80°-90°)	62.2	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





REPORT NUMBER: P479465
 CATALOG NUMBER: IFLD-M-SA4C-827-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2304.5	2304.5	2304.5	2304.5	2304.5	2304.5	2304.5	2304.5	2304.5	2304.5	2304.5
2.5°	2251.5	2278.0	2297.2	2294.8	2302.1	2309.3	2299.6	2314.1	2304.5	2321.3	2330.9
5°	2294.8	2287.6	2290.0	2275.6	2309.3	2270.7	2270.7	2290.0	2314.1	2285.2	2302.1
7.5°	2268.3	2263.5	2251.5	2273.2	2280.4	2280.4	2299.6	2263.5	2304.5	2314.1	2316.5
10°	2239.4	2213.0	2249.1	2270.7	2275.6	2237.0	2253.9	2263.5	2251.5	2263.5	2270.7
12.5°	2215.4	2229.8	2229.8	2229.8	2222.6	2249.1	2265.9	2263.5	2239.4	2261.1	2222.6
15°	2213.0	2205.7	2227.4	2246.7	2234.6	2239.4	2246.7	2268.3	2222.6	2232.2	2232.2
17.5°	2210.5	2220.2	2227.4	2225.0	2265.9	2265.9	2258.7	2244.3	2280.4	2261.1	2234.6
20°	2220.2	2213.0	2232.2	2239.4	2268.3	2326.1	2304.5	2292.4	2273.2	2249.1	2249.1
22.5°	2232.2	2227.4	2253.9	2285.2	2340.6	2355.0	2352.6	2338.2	2304.5	2275.6	2270.7
25°	2275.6	2232.2	2261.1	2321.3	2340.6	2369.5	2388.7	2369.5	2323.7	2330.9	2287.6
27.5°	2340.6	2333.4	2371.9	2412.8	2396.0	2422.5	2405.6	2420.0	2422.5	2386.3	2343.0
30°	2417.6	2396.0	2420.0	2499.5	2506.7	2535.6	2506.7	2468.2	2480.2	2448.9	2427.3
32.5°	2528.4	2521.2	2566.9	2619.9	2629.5	2615.1	2600.6	2622.3	2571.7	2547.7	2509.1
35°	2600.6	2631.9	2687.3	2728.3	2759.6	2745.1	2752.3	2730.7	2742.7	2692.1	2675.3
37.5°	2815.0	2802.9	2815.0	2884.8	2892.0	2884.8	2892.0	2916.1	2899.2	2855.9	2812.5
40°	3017.2	2998.0	3026.9	3106.3	3101.5	3125.6	3077.4	3103.9	3103.9	3022.0	3005.2
42.5°	3168.9	3233.9	3267.7	3332.7	3356.8	3335.1	3325.5	3330.3	3383.2	3286.9	3250.8
45°	3482.0	3479.6	3580.7	3616.8	3549.4	3544.6	3525.3	3583.1	3619.2	3563.8	3549.4
47.5°	3821.5	3838.4	3896.1	3910.6	3951.5	3876.9	3876.9	3884.1	4011.7	3881.7	3814.3
50°	4127.3	4149.0	4264.6	4377.7	4300.7	4221.2	4252.5	4291.1	4360.9	4238.1	4180.3
52.5°	4498.1	4616.1	4693.2	4753.4	4808.8	4753.4	4681.2	4724.5	4861.8	4698.0	4625.8
55°	5032.7	5126.6	5198.9	5309.6	5355.4	5280.8	5273.5	5268.7	5345.8	5172.4	5073.7
57.5°	5629.9	5591.4	5707.0	5877.9	6044.1	5971.8	5950.2	5955.0	5974.3	5728.6	5654.0
60°	6371.6	6414.9	6552.2	6701.5	6877.3	6978.4	6836.3	6754.4	6771.3	6436.6	6321.0
62.5°	6795.4	6891.7	7202.3	7715.2	8069.2	8384.7	8406.3	7874.2	7517.8	6867.6	6376.4
65°	6590.7	6576.3	7161.4	8110.2	9451.4	10368.9	10231.6	8940.9	7696.0	6662.9	6003.2
67.5°	5605.8	5567.3	6275.3	7780.3	9995.6	11999.1	11842.6	9241.9	7094.0	5894.8	5148.3
70°	3612.0	3602.4	4370.5	5930.9	8924.1	11016.6	11074.4	8394.3	5774.4	4317.5	3578.3
72.5°	1312.4	1391.8	1837.3	3188.2	6060.9	8428.0	8464.1	6215.1	3320.6	1996.2	1471.3
75°	484.0	498.5	580.3	1035.4	2762.0	5174.8	5309.6	3014.8	1179.9	650.2	529.8
77.5°	279.3	281.7	310.6	385.3	818.7	2020.3	2102.2	915.0	457.5	346.8	320.3
80°	190.2	187.8	219.1	250.4	327.5	573.1	609.2	382.9	289.0	240.8	202.3
82.5°	110.8	118.0	161.3	178.2	199.9	252.8	257.7	238.4	216.7	178.2	132.4
85°	67.4	55.4	89.1	98.7	115.6	113.2	113.2	130.0	139.7	125.2	74.6
87.5°	16.9	16.9	21.7	24.1	31.3	24.1	26.5	50.6	67.4	62.6	38.5
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: P479465
 CATALOG NUMBER: IFLD-M-SA4C-827-U-5MQ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2304.5	2304.5	2304.5	2304.5	2304.5	2304.5	2304.5	2304.5	2304.5	2304.5	2304.5
2.5°	2309.3	2302.1	2306.9	2333.4	2316.5	2265.9	2278.0	2304.5	2282.8	2270.7	2268.3
5°	2299.6	2314.1	2297.2	2302.1	2318.9	2278.0	2285.2	2318.9	2304.5	2309.3	2282.8
7.5°	2302.1	2309.3	2294.8	2273.2	2273.2	2306.9	2287.6	2292.4	2270.7	2306.9	2258.7
10°	2287.6	2268.3	2251.5	2263.5	2258.7	2249.1	2241.9	2256.3	2234.6	2265.9	2232.2
12.5°	2244.3	2249.1	2244.3	2239.4	2249.1	2273.2	2234.6	2239.4	2205.7	2210.5	2227.4
15°	2227.4	2241.9	2237.0	2263.5	2275.6	2239.4	2268.3	2239.4	2213.0	2198.5	2225.0
17.5°	2234.6	2256.3	2249.1	2268.3	2246.7	2273.2	2278.0	2265.9	2234.6	2222.6	2234.6
20°	2241.9	2234.6	2244.3	2278.0	2309.3	2282.8	2282.8	2275.6	2246.7	2229.8	2229.8
22.5°	2258.7	2246.7	2261.1	2287.6	2297.2	2338.2	2302.1	2285.2	2237.0	2193.7	2234.6
25°	2292.4	2299.6	2309.3	2299.6	2352.6	2347.8	2343.0	2330.9	2256.3	2258.7	2251.5
27.5°	2357.4	2316.5	2328.5	2386.3	2393.6	2412.8	2388.7	2410.4	2330.9	2333.4	2285.2
30°	2436.9	2393.6	2432.1	2482.7	2480.2	2516.4	2504.3	2509.1	2453.8	2422.5	2357.4
32.5°	2523.6	2518.8	2542.9	2574.2	2586.2	2605.5	2603.1	2603.1	2569.3	2487.5	2499.5
35°	2619.9	2653.6	2682.5	2716.2	2721.0	2745.1	2711.4	2716.2	2682.5	2622.3	2641.6
37.5°	2810.1	2807.7	2839.0	2880.0	2884.8	2865.5	2892.0	2880.0	2834.2	2793.3	2762.0
40°	3031.7	2983.5	3012.4	3108.7	3116.0	3082.2	3079.8	3077.4	3043.7	2954.6	2935.4
42.5°	3224.3	3286.9	3282.1	3313.4	3291.7	3274.9	3335.1	3301.4	3274.9	3181.0	3164.1
45°	3472.3	3491.6	3554.2	3655.3	3551.8	3551.8	3592.7	3566.3	3551.8	3482.0	3417.0
47.5°	3780.6	3797.4	3922.6	3929.9	3862.4	3816.7	3944.3	3949.1	3888.9	3835.9	3756.5
50°	4141.8	4149.0	4262.2	4377.7	4303.1	4216.4	4346.4	4397.0	4262.2	4189.9	4091.2
52.5°	4539.1	4517.4	4611.3	4828.0	4755.8	4729.3	4869.0	4881.0	4698.0	4584.8	4611.3
55°	4996.6	4967.7	5223.0	5369.8	5324.1	5275.9	5338.5	5367.4	5220.5	5035.1	5100.1
57.5°	5589.0	5603.4	5731.0	5875.5	5950.2	5962.2	5991.1	5962.2	5812.9	5625.1	5564.9
60°	6181.3	6224.7	6472.7	6744.8	6768.9	6980.8	6942.3	6797.8	6585.9	6318.6	6330.6
62.5°	6400.5	6364.4	6764.1	7428.7	7994.6	8382.3	8211.3	7698.4	7207.2	6720.7	6756.9
65°	5959.8	6048.9	6593.1	7633.4	8861.5	10395.3	9485.1	8066.8	7074.7	6446.2	6376.4
67.5°	5136.3	5203.7	5894.8	6992.8	9172.1	11633.1	9966.7	7546.7	6239.1	5425.2	5468.6
70°	3578.3	3612.0	4288.7	5728.6	8317.2	10978.1	8991.5	5796.1	4307.9	3433.8	3482.0
72.5°	1440.0	1521.9	1967.3	3450.7	6140.4	8341.3	6053.7	3041.3	1786.7	1329.2	1206.4
75°	532.2	534.6	628.5	1187.1	2916.1	5242.2	2730.7	977.6	570.7	467.2	445.5
77.5°	308.2	305.8	327.5	428.6	845.2	2046.8	775.4	382.9	310.6	279.3	267.3
80°	192.6	190.2	223.9	284.1	370.8	561.1	327.5	238.4	209.5	180.6	180.6
82.5°	122.8	125.2	175.8	209.5	226.4	248.0	190.2	168.6	156.5	103.5	101.1
85°	79.5	72.2	122.8	139.7	125.2	110.8	106.0	89.1	81.9	50.6	55.4
87.5°	36.1	38.5	62.6	69.8	45.8	26.5	26.5	19.3	19.3	12.0	12.0
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)