

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: P481408

Luminaire Tested: **IFLD-S-SA6A-827-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481408
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-827-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

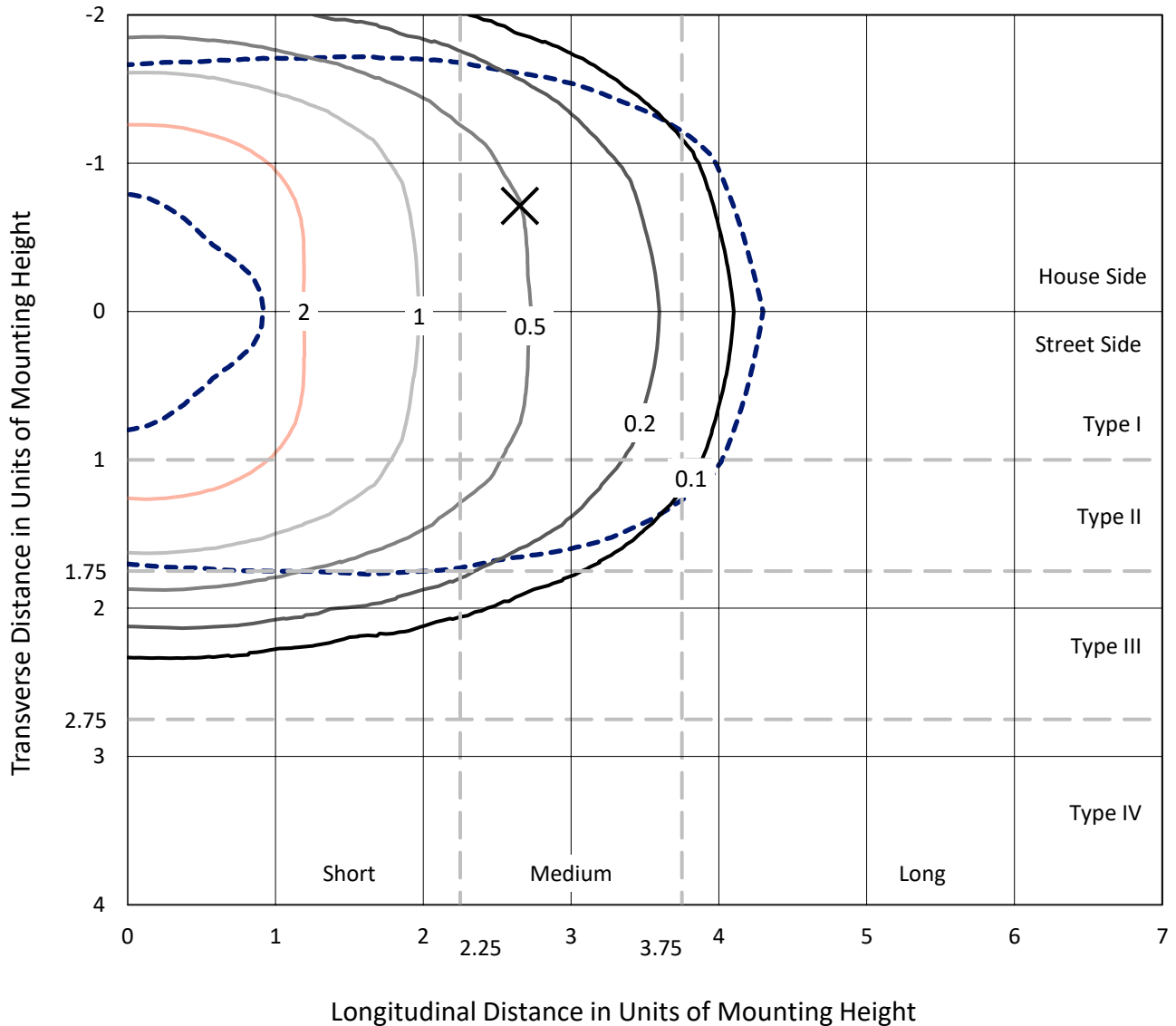
Lumens per Lamp: N/A
Luminaire Lumens: 20436.1 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 189.6
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: P481408
 CATALOG NUMBER: IFLD-S-SA6A-827-U-RW

Iso-Footcandle Lines of Horizontal Illumination

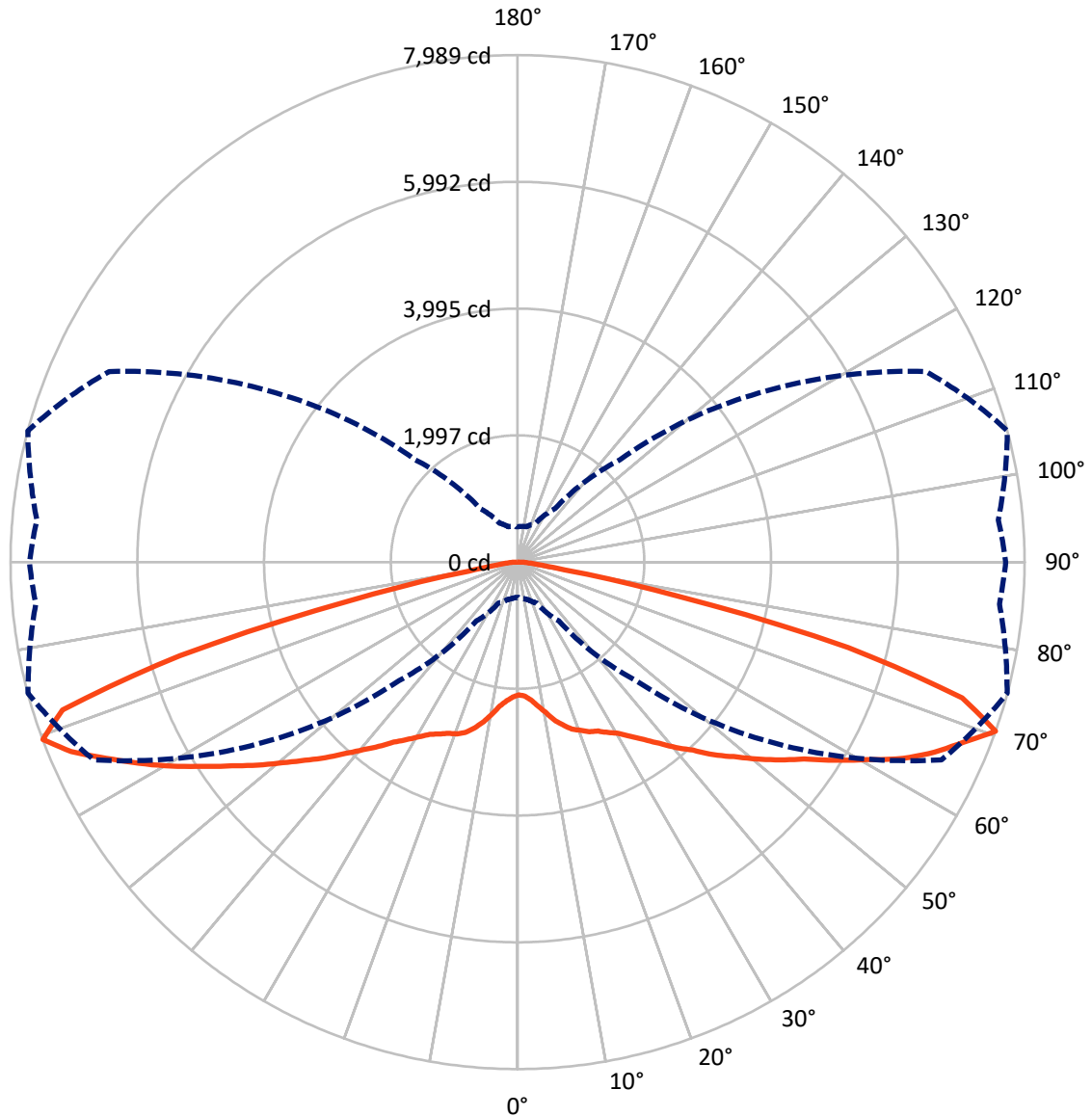
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

REPORT NUMBER: P481408
CATALOG NUMBER: IFLD-S-SA6A-827-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P481408
 CATALOG NUMBER: IFLD-S-SA6A-827-U-RW

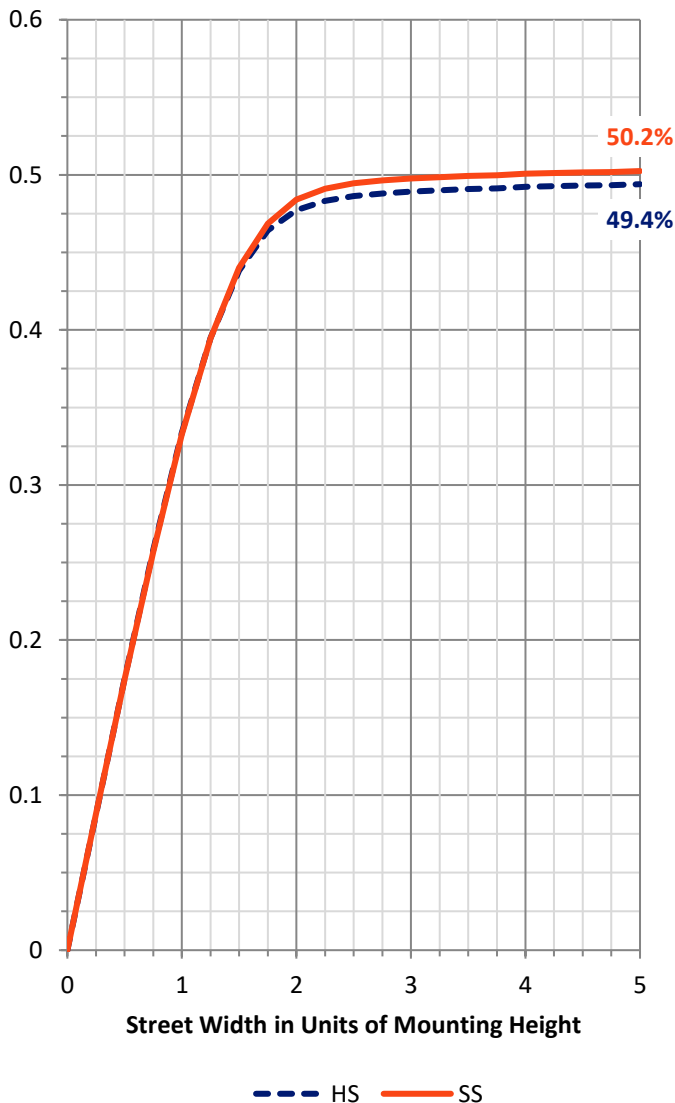
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10145.3	0.0	10145.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	10290.7	0.0	10290.7
	% Fixture	50.4	0.0	50.4
Total	Lumens	20436.1	0.0	20436.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.3	1.0
10°-20°	709.2	3.5
20°-30°	1373.3	6.7
30°-40°	2322.7	11.4
40°-50°	3705.5	18.1
50°-60°	5072.0	24.8
60°-70°	4780.7	23.4
70°-80°	2106.0	10.3
80°-90°	158.5	0.8
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°	20436.1	100.0
0°-180°	20436.1	100.0



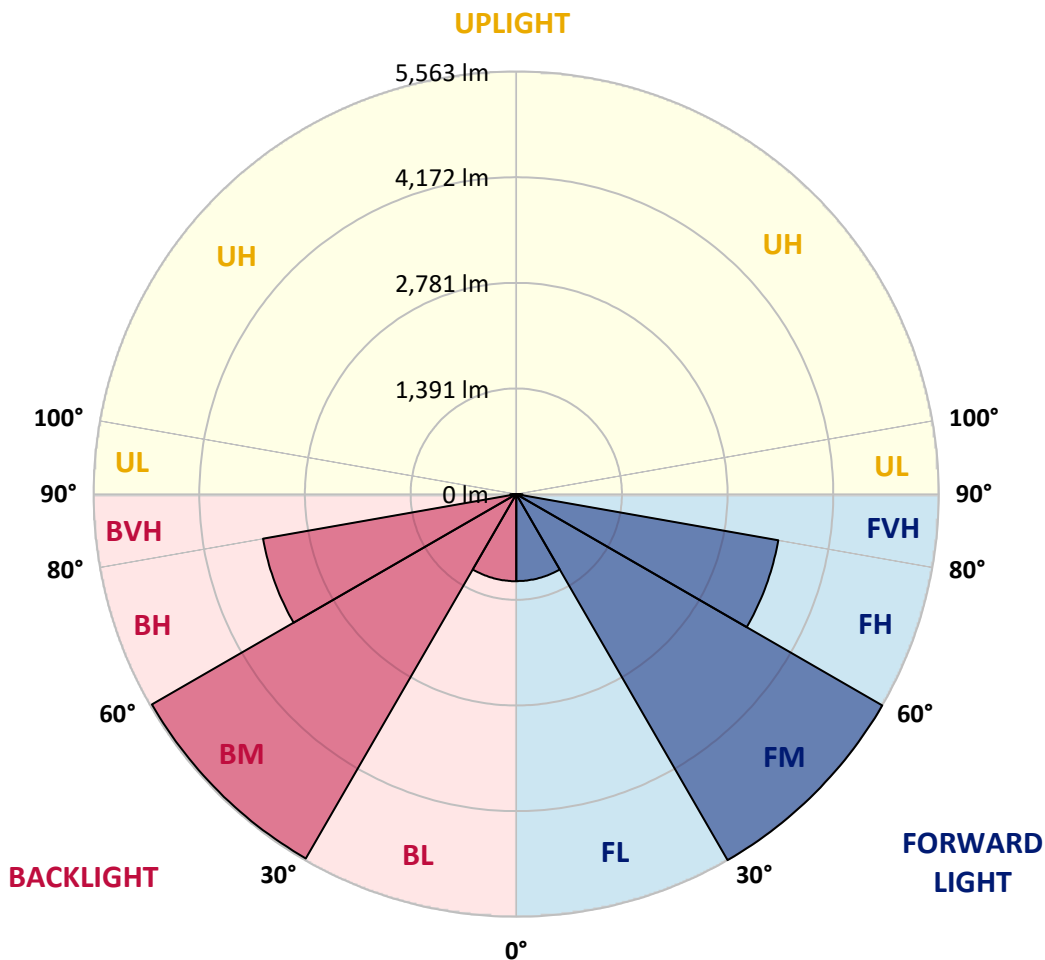
REPORT NUMBER: P481408
 CATALOG NUMBER: IFLD-S-SA6A-827-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1144.7	5.6			
FM (30°-60°)	5562.5	27.2			
FH (60°-80°)	3502.5	17.1			G2/5000
FVH (80°-90°)	80.9	0.4			G1/100
BL (0°-30°)	1146.0	5.6	B3/2500		
BM (30°-60°)	5537.7	27.1	B4/8500		
BH (60°-80°)	3384.2	16.6	B4/5000		G4/5000
BVH (80°-90°)	77.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





REPORT NUMBER: P481408
 CATALOG NUMBER: IFLD-S-SA6A-827-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2092.6	2092.6	2092.6	2092.6	2092.6	2092.6	2092.6	2092.6	2092.6	2092.6	2092.6
2.5°	2079.4	2079.4	2077.2	2088.2	2099.2	2103.6	2112.5	2114.7	2127.9	2116.9	2138.9
5°	2072.8	2070.6	2088.2	2114.7	2114.7	2143.3	2160.9	2185.1	2191.8	2205.0	2209.4
7.5°	2119.1	2114.7	2105.8	2134.5	2158.7	2202.8	2227.0	2268.9	2284.3	2301.9	2321.7
10°	2147.7	2147.7	2138.9	2189.6	2211.6	2271.1	2323.9	2365.8	2425.3	2445.1	2447.3
12.5°	2152.1	2158.7	2185.1	2251.2	2312.9	2390.0	2429.7	2509.0	2568.4	2605.9	2619.1
15°	2218.2	2205.0	2233.6	2323.9	2414.2	2482.5	2553.0	2610.3	2696.2	2744.7	2775.5
17.5°	2277.7	2264.4	2317.3	2425.3	2517.8	2623.5	2685.2	2746.9	2808.5	2852.6	2854.8
20°	2372.4	2383.4	2429.7	2546.4	2667.6	2760.1	2830.6	2841.6	2872.4	2936.3	2925.3
22.5°	2489.1	2480.3	2577.2	2705.0	2837.2	2914.3	2953.9	2925.3	2909.9	2978.1	2993.6
25°	2605.9	2632.3	2720.4	2839.4	2998.0	3101.5	3112.5	3033.2	2975.9	3000.2	2993.6
27.5°	2784.3	2788.7	2881.2	3022.2	3183.0	3273.3	3266.7	3154.4	3044.2	3046.4	3050.8
30°	3013.4	2991.4	3092.7	3220.5	3379.1	3460.6	3471.6	3310.8	3163.2	3119.1	3130.1
32.5°	3233.7	3260.1	3348.2	3493.6	3610.3	3656.6	3632.4	3489.2	3297.5	3238.1	3244.7
35°	3515.6	3511.2	3632.4	3755.7	3843.8	3852.6	3832.8	3623.6	3442.9	3365.8	3335.0
37.5°	3817.4	3857.1	3936.4	4037.7	4130.2	4134.6	4026.7	3859.3	3636.8	3509.0	3546.5
40°	4154.4	4198.5	4255.8	4403.3	4471.6	4401.1	4291.0	4064.1	3832.8	3720.5	3738.1
42.5°	4451.8	4471.6	4588.4	4762.4	4795.4	4764.6	4601.6	4326.2	4057.5	3934.1	3943.0
45°	4724.9	4751.4	4903.4	5059.8	5136.9	5084.0	4894.6	4632.4	4319.6	4213.9	4172.0
47.5°	4976.1	5028.9	5176.5	5337.3	5456.3	5460.7	5227.2	4910.0	4579.6	4440.8	4438.6
50°	5145.7	5222.8	5368.2	5551.0	5725.0	5793.3	5559.8	5218.4	4863.7	4716.1	4700.7
52.5°	5238.2	5317.5	5462.9	5747.0	5940.9	6046.6	5936.5	5506.9	5196.3	5042.1	5017.9
55°	5125.8	5178.7	5416.6	5815.3	6114.9	6288.9	6216.2	5905.6	5526.8	5401.2	5423.2
57.5°	4647.8	4758.0	5051.0	5548.8	6110.5	6537.8	6531.2	6282.3	5907.8	5788.9	5793.3
60°	3826.2	3918.7	4280.0	4976.1	5863.8	6639.2	6872.6	6648.0	6335.2	6196.4	6192.0
62.5°	2700.6	2817.3	3235.9	3995.8	5136.9	6498.2	7264.7	7108.3	6753.7	6652.4	6689.8
65°	1511.1	1581.6	1969.3	2656.5	3914.3	5722.8	7335.2	7586.3	7178.8	7024.6	7031.2
67.5°	808.4	834.9	1015.5	1394.4	2394.4	4412.1	6623.7	7861.7	7639.2	7372.7	7330.8
70°	555.1	563.9	610.2	713.7	1132.2	2638.9	4995.9	7370.5	7985.0	7621.6	7692.1
72.5°	469.2	464.8	475.8	486.8	592.5	1180.7	2931.9	5672.1	7537.9	7401.3	7374.9
75°	407.5	405.3	409.7	398.7	411.9	519.9	1297.4	3535.4	5517.9	6158.9	6258.1
77.5°	337.0	339.2	341.4	330.4	326.0	343.6	522.1	1553.0	2716.0	2998.0	3233.7
80°	255.5	259.9	277.5	266.5	248.9	251.1	308.4	519.9	779.8	707.1	729.1
82.5°	174.0	176.2	213.7	200.5	187.2	169.6	198.2	268.7	304.0	231.3	202.7
85°	123.4	121.2	138.8	127.8	118.9	85.9	118.9	152.0	182.8	114.5	103.5
87.5°	28.6	28.6	57.3	46.3	44.1	35.2	46.3	59.5	79.3	50.7	46.3
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: P481408
 CATALOG NUMBER: IFLD-S-SA6A-827-U-RW

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2092.6	2092.6	2092.6	2092.6	2092.6	2092.6	2092.6	2092.6	2092.6	2092.6
2.5°	2132.3	2112.5	2112.5	2108.1	2090.4	2086.0	2070.6	2075.0	2064.0	2053.0
5°	2207.2	2180.7	2180.7	2143.3	2108.1	2103.6	2086.0	2086.0	2068.4	2072.8
7.5°	2310.7	2286.5	2246.8	2213.8	2165.3	2145.5	2112.5	2108.1	2103.6	2094.8
10°	2434.1	2403.2	2363.6	2295.3	2255.6	2218.2	2185.1	2138.9	2127.9	2130.1
12.5°	2601.5	2553.0	2467.1	2407.6	2357.0	2308.5	2260.0	2191.8	2176.3	2182.9
15°	2720.4	2658.7	2572.8	2550.8	2482.5	2423.0	2343.7	2266.7	2240.2	2233.6
17.5°	2817.3	2766.7	2716.0	2683.0	2627.9	2555.2	2445.1	2357.0	2297.5	2290.9
20°	2896.6	2830.6	2819.5	2839.4	2771.1	2722.6	2588.3	2480.3	2401.0	2368.0
22.5°	2945.1	2903.3	2934.1	2951.7	2947.3	2865.8	2727.0	2601.5	2502.3	2471.5
25°	2998.0	2949.5	3059.6	3119.1	3134.5	3000.2	2892.2	2727.0	2630.1	2610.3
27.5°	3024.4	3042.0	3169.8	3295.3	3284.3	3180.8	3035.4	2887.8	2810.7	2775.5
30°	3101.5	3130.1	3324.0	3465.0	3467.2	3365.8	3255.7	3088.3	3002.4	2987.0
32.5°	3240.3	3275.5	3482.6	3632.4	3658.8	3581.7	3471.6	3368.0	3279.9	3244.7
35°	3346.0	3436.3	3669.8	3806.4	3876.9	3830.6	3768.9	3661.0	3568.5	3537.6
37.5°	3498.0	3623.6	3848.2	4033.3	4112.6	4108.2	4061.9	3945.2	3868.1	3841.6
40°	3716.1	3841.6	4046.5	4291.0	4438.6	4432.0	4405.5	4315.2	4200.7	4187.5
42.5°	3947.4	4050.9	4317.4	4597.2	4808.6	4786.6	4716.1	4610.4	4531.1	4513.5
45°	4172.0	4332.8	4579.6	4938.6	5097.2	5152.3	5068.6	4887.9	4797.6	4786.6
47.5°	4454.0	4581.8	4890.2	5211.8	5447.5	5456.3	5313.1	5145.7	4980.5	5015.7
50°	4705.1	4874.7	5187.5	5540.0	5821.9	5720.6	5537.8	5328.5	5209.6	5163.3
52.5°	4973.9	5180.9	5544.4	5903.4	6059.8	5958.5	5661.1	5427.6	5247.0	5227.2
55°	5365.9	5473.9	5949.7	6225.0	6275.7	6062.0	5623.7	5293.3	5059.8	5002.5
57.5°	5764.7	5890.2	6306.5	6544.4	6491.6	6004.8	5381.4	4870.3	4564.1	4482.6
60°	6167.8	6322.0	6672.2	6890.3	6617.1	5610.5	4696.3	4037.7	3680.8	3608.1
62.5°	6617.1	6817.6	7130.4	7207.5	6244.9	4830.7	3727.1	2914.3	2553.0	2431.9
65°	7015.8	7220.7	7606.2	7141.4	5454.1	3603.7	2409.8	1665.3	1398.8	1301.8
67.5°	7344.0	7575.3	7764.8	6319.7	3993.6	2110.3	1255.6	876.7	777.6	742.3
70°	7604.0	7989.4	7103.9	4645.6	2282.1	1028.7	678.5	577.1	563.9	555.1
72.5°	7377.1	7326.4	5304.3	2680.8	1000.1	566.1	491.2	475.8	473.6	475.8
75°	6033.4	5381.4	3172.0	1165.3	502.2	409.7	407.5	400.9	411.9	411.9
77.5°	2927.5	2559.6	1326.1	500.0	330.4	321.6	332.6	332.6	332.6	332.6
80°	678.5	751.1	473.6	304.0	240.1	240.1	264.3	266.5	255.5	251.1
82.5°	231.3	308.4	259.9	191.6	158.6	178.4	200.5	204.9	169.6	171.8
85°	114.5	180.6	141.0	110.1	81.5	110.1	130.0	136.6	116.7	112.3
87.5°	52.9	79.3	52.9	37.4	28.6	39.6	37.4	30.8	17.6	17.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)