

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: P481397

Luminaire Tested: **IFLD-S-SA3E-827-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481397  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3E-827-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (48) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

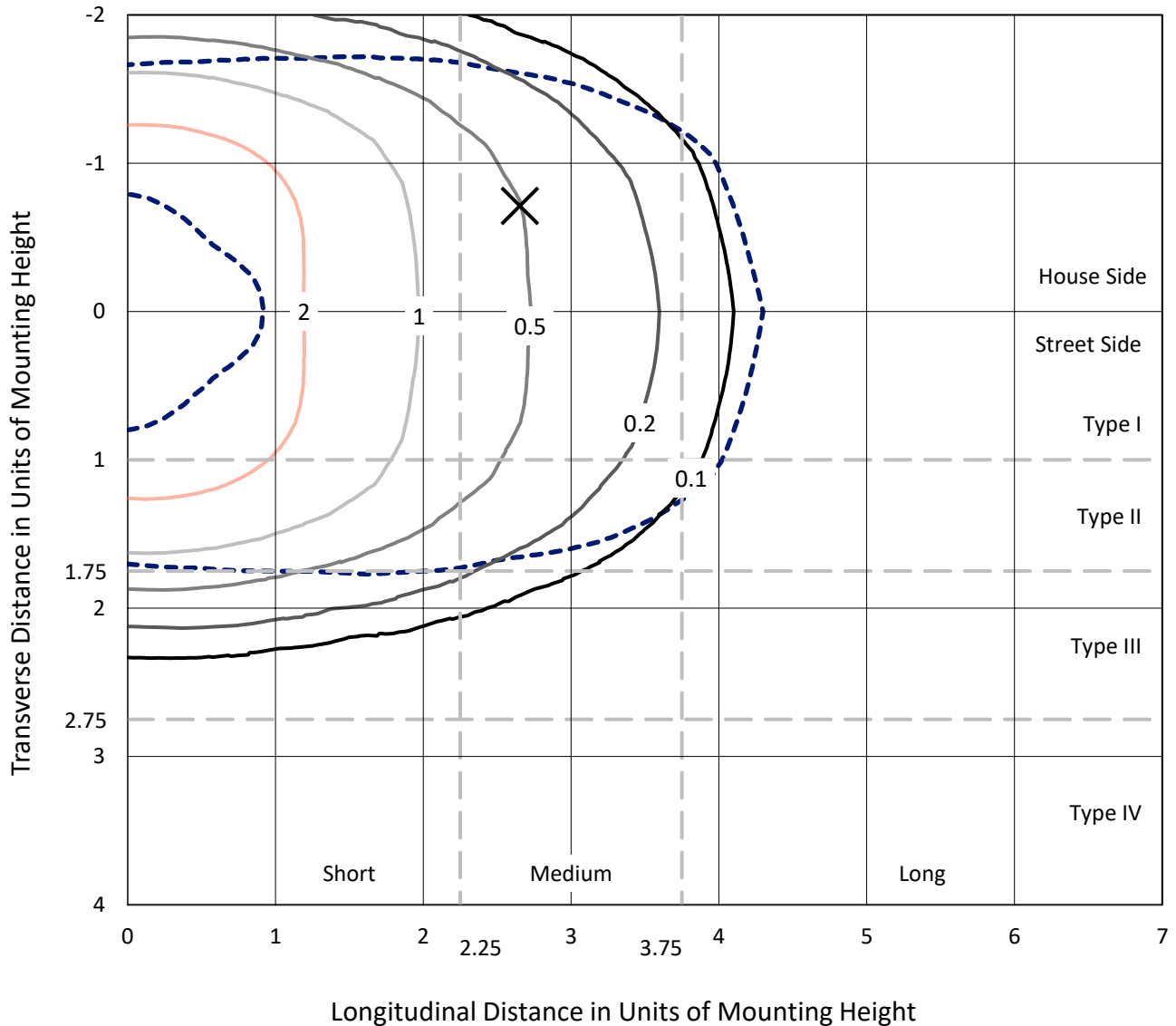
Lumens per Lamp: N/A  
Luminaire Lumens: 20423.5 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 232.1  
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

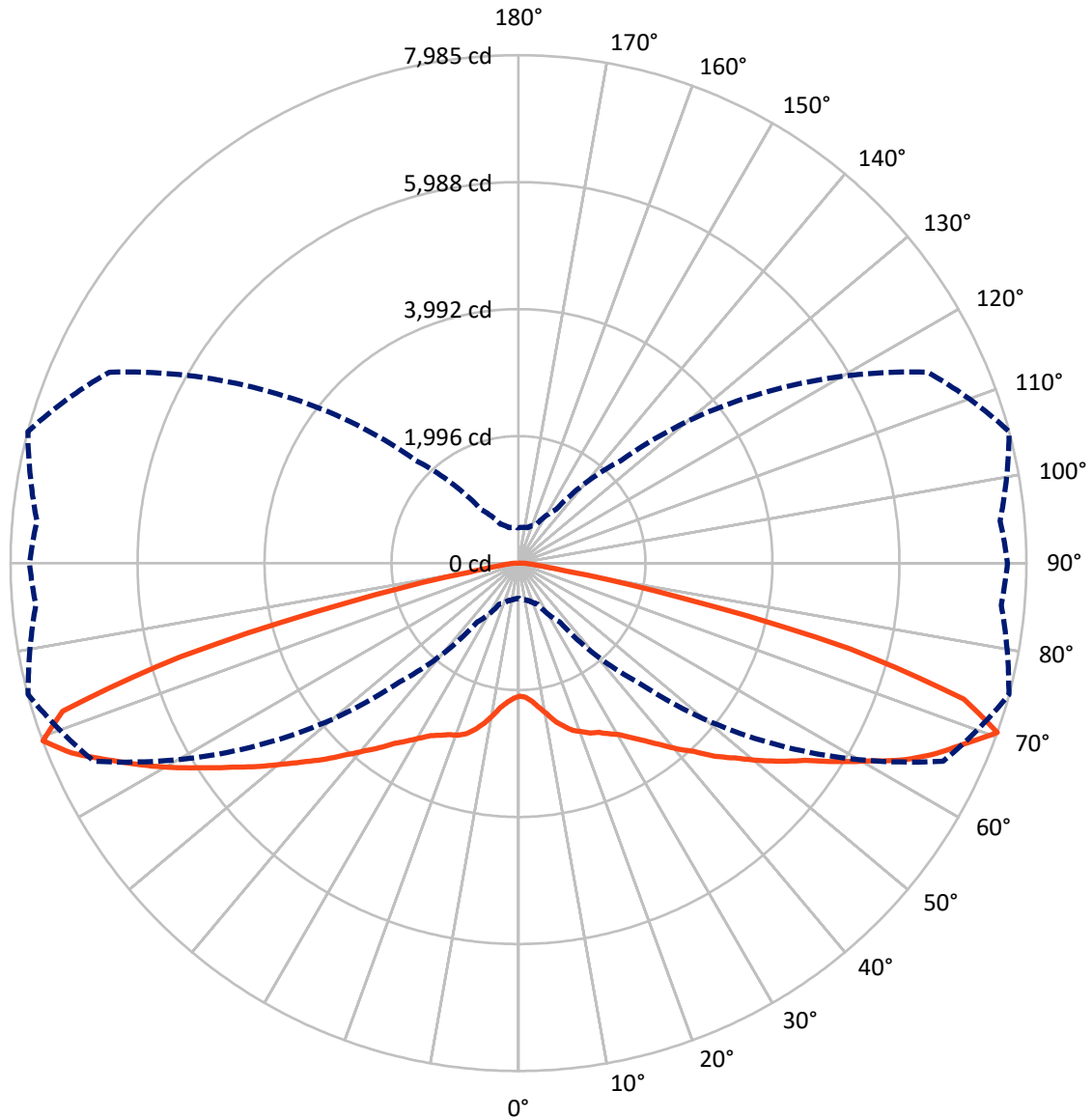
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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

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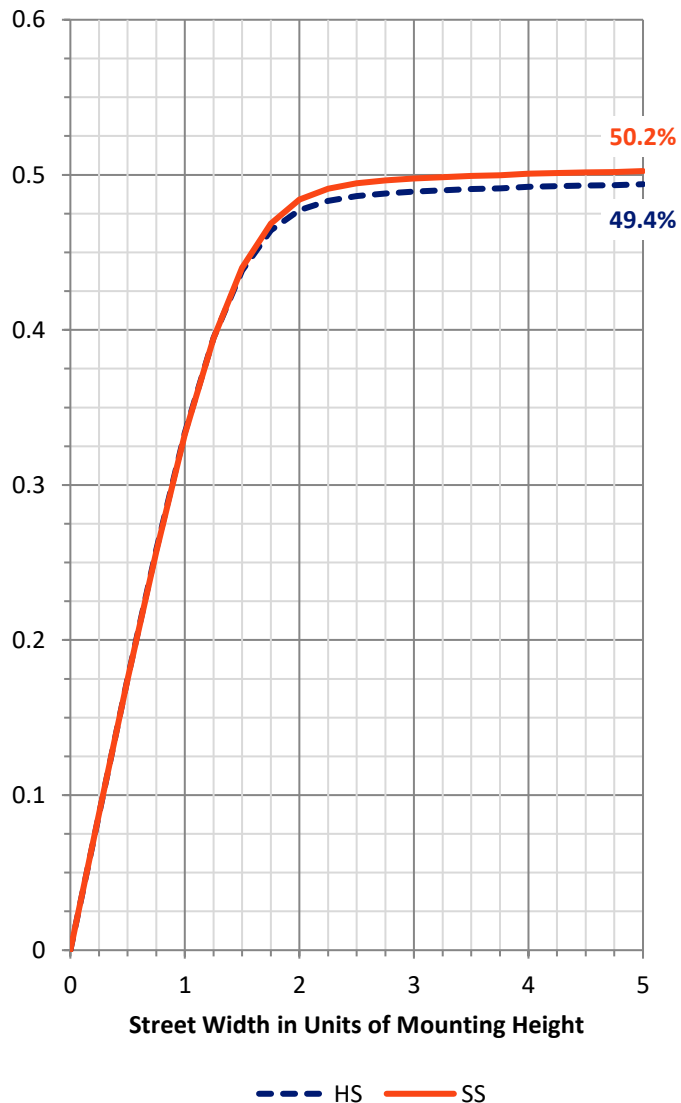
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10139.1	0.0	10139.1
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	10284.4	0.0	10284.4
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	20423.5	0.0	20423.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.2	1.0
10°-20°	708.8	3.5
20°-30°	1372.4	6.7
30°-40°	2321.3	11.4
40°-50°	3703.2	18.1
50°-60°	5068.8	24.8
60°-70°	4777.7	23.4
70°-80°	2104.7	10.3
80°-90°	158.4	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°	20423.5	100.0
0°-180°	20423.5	100.0

**Coefficient of Utilization**



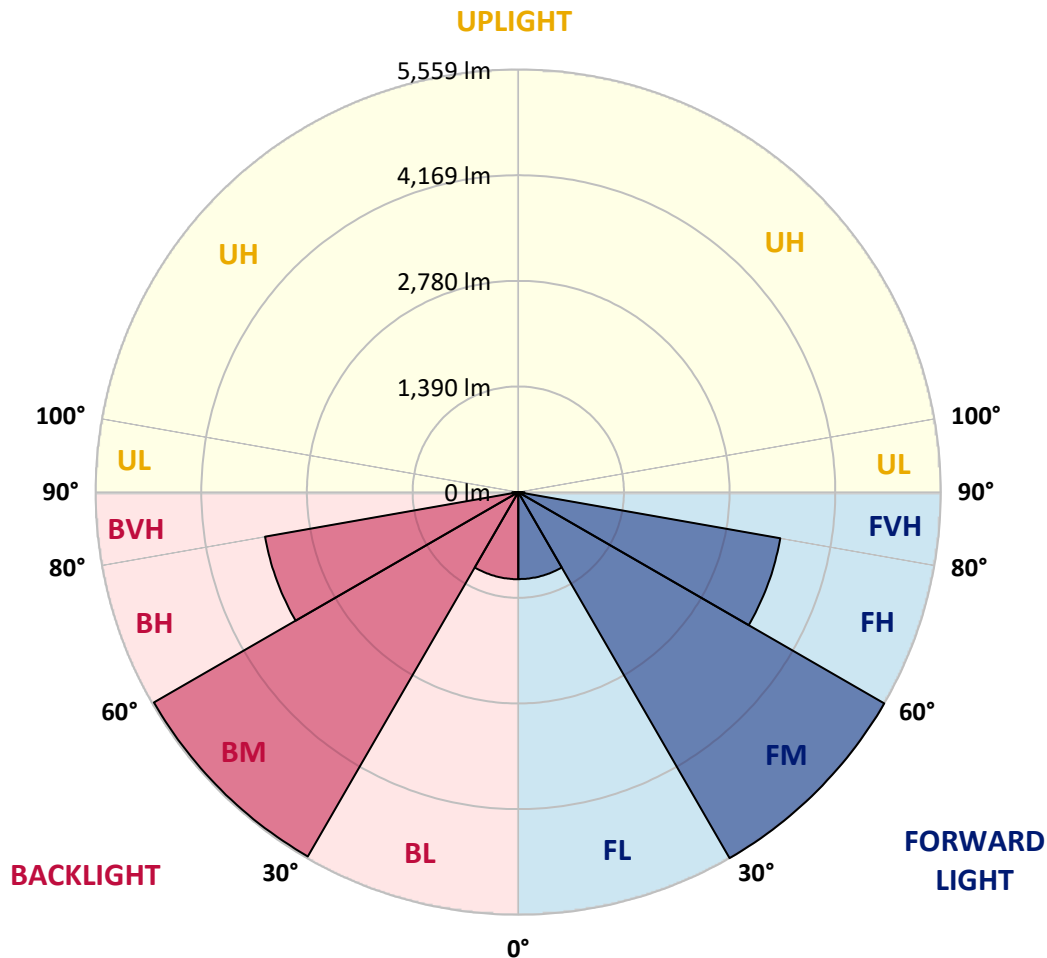
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1144.0	5.6			
FM (30°-60°)	5559.1	27.2			
FH (60°-80°)	3500.4	17.1			G2/5000
FVH (80°-90°)	80.9	0.4			G1/100
BL (0°-30°)	1145.3	5.6	B3/2500		
BM (30°-60°)	5534.2	27.1	B4/8500		
BH (60°-80°)	3382.1	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3
2.5°	2078.1	2078.1	2075.9	2086.9	2097.9	2102.4	2111.2	2113.4	2126.6	2115.6	2137.6
5°	2071.5	2069.3	2086.9	2113.4	2113.4	2142.0	2159.6	2183.8	2190.4	2203.6	2208.0
7.5°	2117.8	2113.4	2104.6	2133.2	2157.4	2201.4	2225.6	2267.5	2282.9	2300.5	2320.3
10°	2146.4	2146.4	2137.6	2188.2	2210.2	2269.7	2322.5	2364.3	2423.8	2443.6	2445.8
12.5°	2150.8	2157.4	2183.8	2249.8	2311.5	2388.5	2428.2	2507.4	2566.9	2604.3	2617.5
15°	2216.8	2203.6	2232.2	2322.5	2412.8	2481.0	2551.4	2608.7	2694.5	2743.0	2773.8
17.5°	2276.3	2263.1	2315.9	2423.8	2516.2	2621.9	2683.5	2745.2	2806.8	2850.8	2853.0
20°	2370.9	2381.9	2428.2	2544.8	2665.9	2758.4	2828.8	2839.8	2870.6	2934.5	2923.5
22.5°	2487.6	2478.8	2575.7	2703.3	2835.4	2912.5	2952.1	2923.5	2908.1	2976.3	2991.7
25°	2604.3	2630.7	2718.7	2837.6	2996.1	3099.6	3110.6	3031.4	2974.1	2998.3	2991.7
27.5°	2782.6	2787.0	2879.5	3020.3	3181.0	3271.3	3264.7	3152.4	3042.4	3044.6	3049.0
30°	3011.5	2989.5	3090.8	3218.5	3377.0	3458.4	3469.4	3308.7	3161.2	3117.2	3128.2
32.5°	3231.7	3258.1	3346.2	3491.4	3608.1	3654.4	3630.1	3487.0	3295.5	3236.1	3242.7
35°	3513.5	3509.1	3630.1	3753.4	3841.5	3850.3	3830.5	3621.3	3440.8	3363.8	3332.9
37.5°	3815.1	3854.7	3933.9	4035.2	4127.7	4132.1	4024.2	3856.9	3634.5	3506.9	3544.3
40°	4151.9	4195.9	4253.1	4400.6	4468.9	4398.4	4288.4	4061.6	3830.5	3718.2	3735.8
42.5°	4449.1	4468.9	4585.6	4759.5	4792.5	4761.7	4598.8	4323.6	4055.0	3931.7	3940.5
45°	4722.0	4748.5	4900.4	5056.7	5133.7	5080.9	4891.5	4629.6	4317.0	4211.3	4169.5
47.5°	4973.0	5025.8	5173.3	5334.0	5452.9	5457.3	5224.0	4907.0	4576.7	4438.1	4435.9
50°	5142.5	5219.6	5364.9	5547.6	5721.5	5789.7	5556.4	5215.2	4860.7	4713.2	4697.8
52.5°	5235.0	5314.2	5459.5	5743.5	5937.2	6042.9	5932.8	5503.5	5193.1	5039.0	5014.8
55°	5122.7	5175.5	5413.3	5811.7	6111.1	6285.0	6212.4	5902.0	5523.4	5397.9	5419.9
57.5°	4645.0	4755.1	5047.8	5545.4	6106.7	6533.8	6527.2	6278.4	5904.2	5785.3	5789.7
60°	3823.9	3916.3	4277.4	4973.0	5860.2	6635.1	6868.4	6643.9	6331.3	6192.6	6188.2
62.5°	2698.9	2815.6	3233.9	3993.4	5133.7	6494.2	7260.3	7104.0	6749.5	6648.3	6685.7
65°	1510.2	1580.6	1968.1	2654.9	3911.9	5719.3	7330.7	7581.7	7174.4	7020.3	7026.9
67.5°	807.9	834.3	1014.9	1393.5	2392.9	4409.4	6619.7	7856.9	7634.5	7368.1	7326.3
70°	554.8	563.6	609.8	713.3	1131.5	2637.3	4992.8	7365.9	7980.1	7616.9	7687.3
72.5°	468.9	464.5	475.5	486.5	592.2	1180.0	2930.1	5668.6	7533.2	7396.8	7370.3
75°	407.3	405.1	409.5	398.5	411.7	519.5	1296.6	3533.3	5514.5	6155.2	6254.2
77.5°	336.8	339.0	341.2	330.2	325.8	343.4	521.7	1552.0	2714.3	2996.1	3231.7
80°	255.4	259.8	277.4	266.4	248.8	251.0	308.2	519.5	779.3	706.7	728.7
82.5°	173.9	176.1	213.5	200.3	187.1	169.5	198.1	268.6	303.8	231.1	202.5
85°	123.3	121.1	138.7	127.7	118.9	85.9	118.9	151.9	182.7	114.5	103.5
87.5°	28.6	28.6	57.2	46.2	44.0	35.2	46.2	59.4	79.3	50.6	46.2
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3	2091.3
2.5°	2131.0	2111.2	2111.2	2106.8	2089.1	2084.7	2069.3	2073.7	2062.7	2051.7
5°	2205.8	2179.4	2179.4	2142.0	2106.8	2102.4	2084.7	2084.7	2067.1	2071.5
7.5°	2309.3	2285.1	2245.4	2212.4	2164.0	2144.2	2111.2	2106.8	2102.4	2093.5
10°	2432.6	2401.7	2362.1	2293.9	2254.3	2216.8	2183.8	2137.6	2126.6	2128.8
12.5°	2599.9	2551.4	2465.6	2406.1	2355.5	2307.1	2258.7	2190.4	2175.0	2181.6
15°	2718.7	2657.1	2571.3	2549.2	2481.0	2421.6	2342.3	2265.3	2238.8	2232.2
17.5°	2815.6	2765.0	2714.3	2681.3	2626.3	2553.6	2443.6	2355.5	2296.1	2289.5
20°	2894.9	2828.8	2817.8	2837.6	2769.4	2721.0	2586.7	2478.8	2399.5	2366.5
22.5°	2943.3	2901.5	2932.3	2949.9	2945.5	2864.0	2725.4	2599.9	2500.8	2470.0
25°	2996.1	2947.7	3057.8	3117.2	3132.6	2998.3	2890.5	2725.4	2628.5	2608.7
27.5°	3022.5	3040.2	3167.8	3293.3	3282.3	3178.8	3033.6	2886.1	2809.0	2773.8
30°	3099.6	3128.2	3321.9	3462.8	3465.0	3363.8	3253.7	3086.4	3000.5	2985.1
32.5°	3238.3	3273.5	3480.4	3630.1	3656.6	3579.5	3469.4	3366.0	3277.9	3242.7
35°	3344.0	3434.2	3667.6	3804.0	3874.5	3828.3	3766.6	3658.8	3566.3	3535.5
37.5°	3495.8	3621.3	3845.9	4030.8	4110.0	4105.6	4059.4	3942.7	3865.7	3839.3
40°	3713.8	3839.3	4044.0	4288.4	4435.9	4429.2	4402.8	4312.6	4198.1	4184.9
42.5°	3944.9	4048.4	4314.8	4594.4	4805.7	4783.7	4713.2	4607.6	4528.3	4510.7
45°	4169.5	4330.2	4576.7	4935.6	5094.1	5149.1	5065.5	4884.9	4794.7	4783.7
47.5°	4451.3	4578.9	4887.1	5208.6	5444.1	5452.9	5309.8	5142.5	4977.4	5012.6
50°	4702.2	4871.7	5184.3	5536.6	5818.3	5717.1	5534.4	5325.2	5206.3	5160.1
52.5°	4970.8	5177.7	5541.0	5899.8	6056.1	5954.8	5657.6	5424.3	5243.8	5224.0
55°	5362.6	5470.5	5946.0	6221.2	6271.8	6058.3	5620.2	5290.0	5056.7	4999.4
57.5°	5761.1	5886.6	6302.7	6540.4	6487.6	6001.1	5378.1	4867.3	4561.3	4479.9
60°	6164.0	6318.1	6668.1	6886.0	6613.1	5607.0	4693.4	4035.2	3678.6	3605.9
62.5°	6613.1	6813.4	7126.0	7203.0	6241.0	4827.7	3724.8	2912.5	2551.4	2430.4
65°	7011.5	7216.2	7601.5	7137.0	5450.7	3601.5	2408.3	1664.3	1397.9	1301.0
67.5°	7339.5	7570.7	7760.0	6315.9	3991.2	2109.0	1254.8	876.2	777.1	741.9
70°	7599.3	7984.5	7099.6	4642.8	2280.7	1028.1	678.0	576.8	563.6	554.8
72.5°	7372.5	7321.9	5301.0	2679.1	999.4	565.8	490.9	475.5	473.3	475.5
75°	6029.7	5378.1	3170.0	1164.5	501.9	409.5	407.3	400.7	411.7	411.7
77.5°	2925.7	2558.0	1325.3	499.7	330.2	321.4	332.4	332.4	332.4	332.4
80°	678.0	750.7	473.3	303.8	240.0	240.0	264.2	266.4	255.4	251.0
82.5°	231.1	308.2	259.8	191.5	158.5	178.3	200.3	204.7	169.5	171.7
85°	114.5	180.5	140.9	110.1	81.5	110.1	129.9	136.5	116.7	112.3
87.5°	52.8	79.3	52.8	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)