

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: P481124

Luminaire Tested: **IFLD-S-SA3E-722-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481124
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-722-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

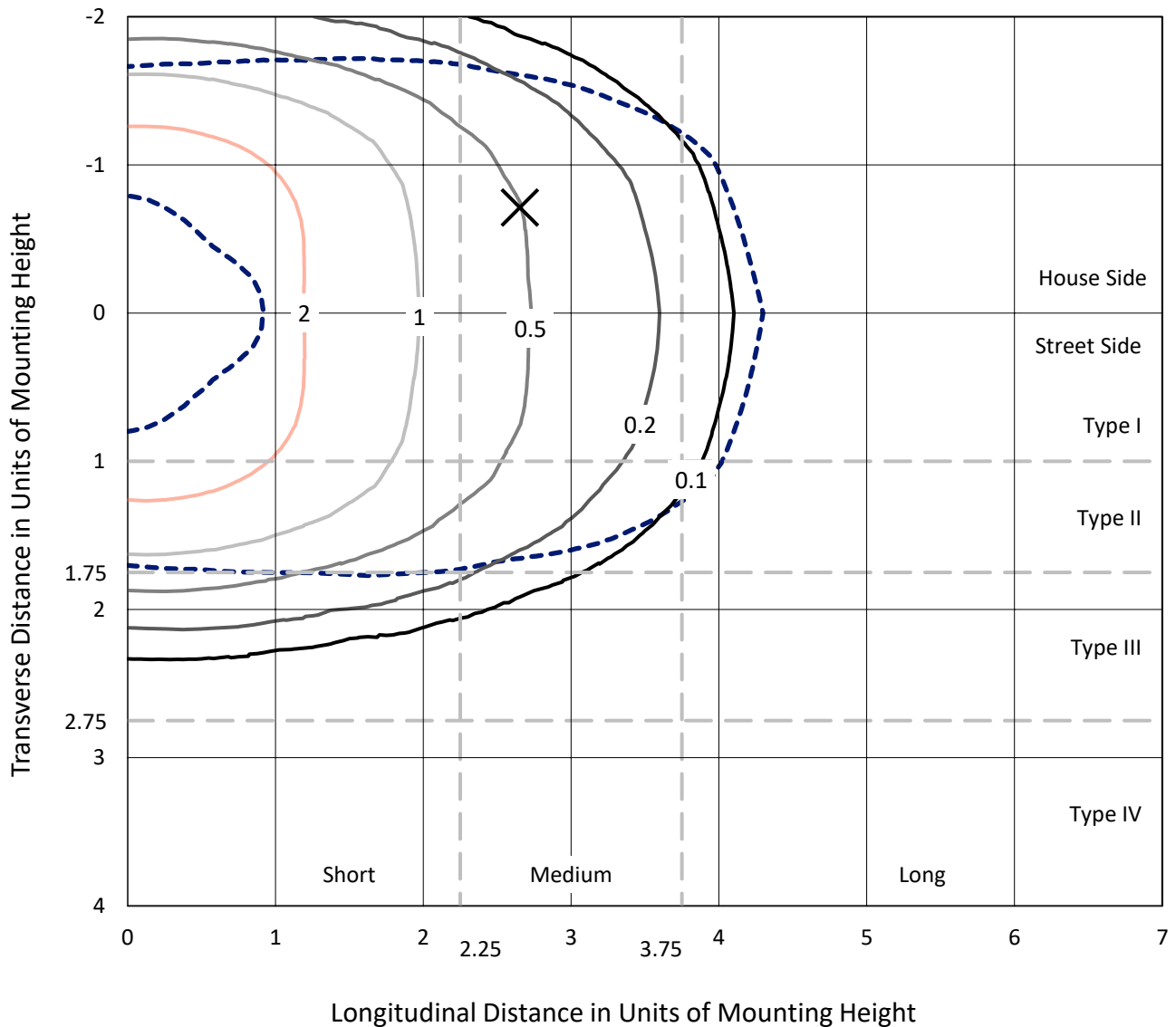
Lumens per Lamp: N/A
Luminaire Lumens: 20465.2 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

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

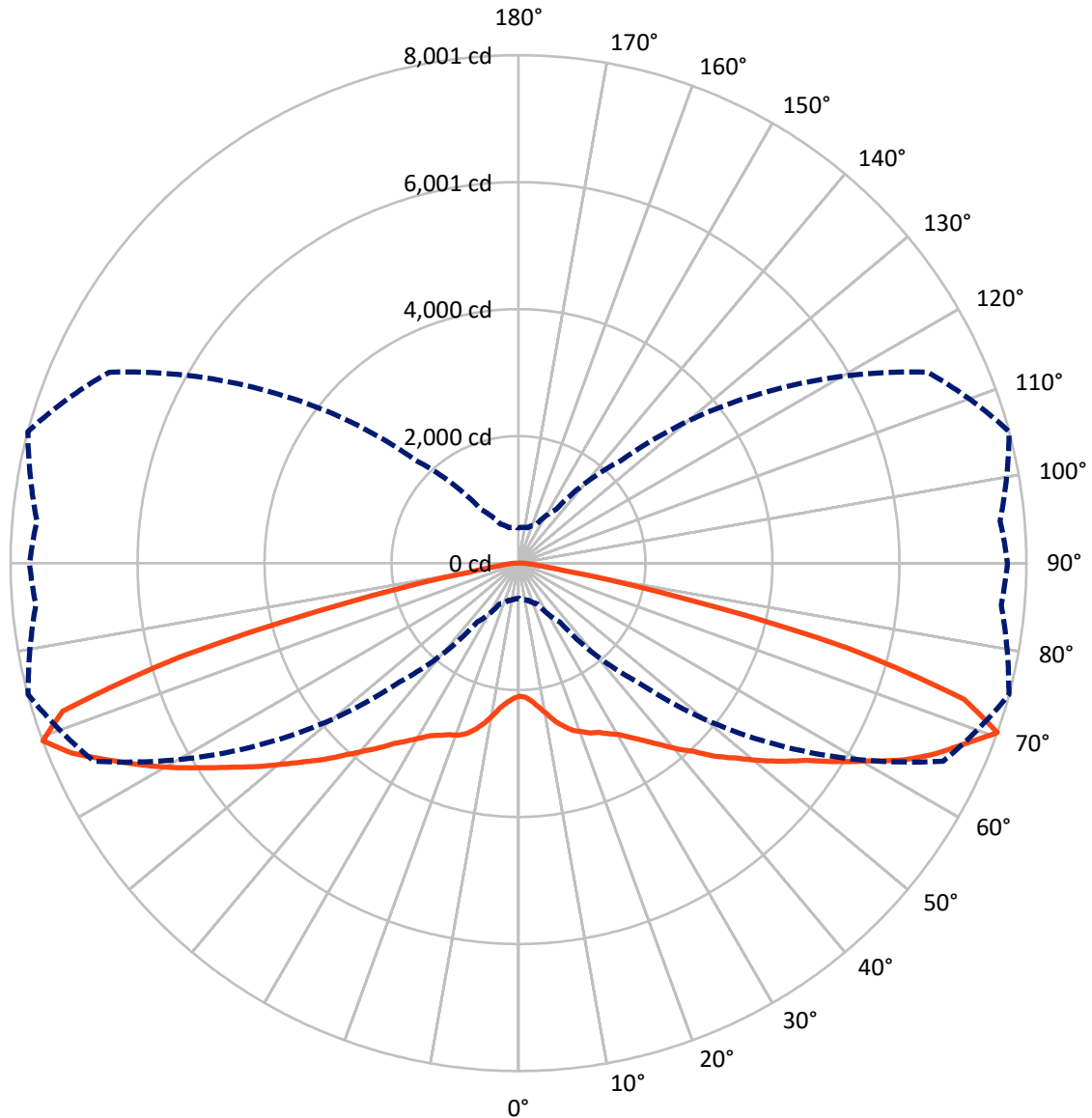
× Max cd
 - - - 1/2 Max cd



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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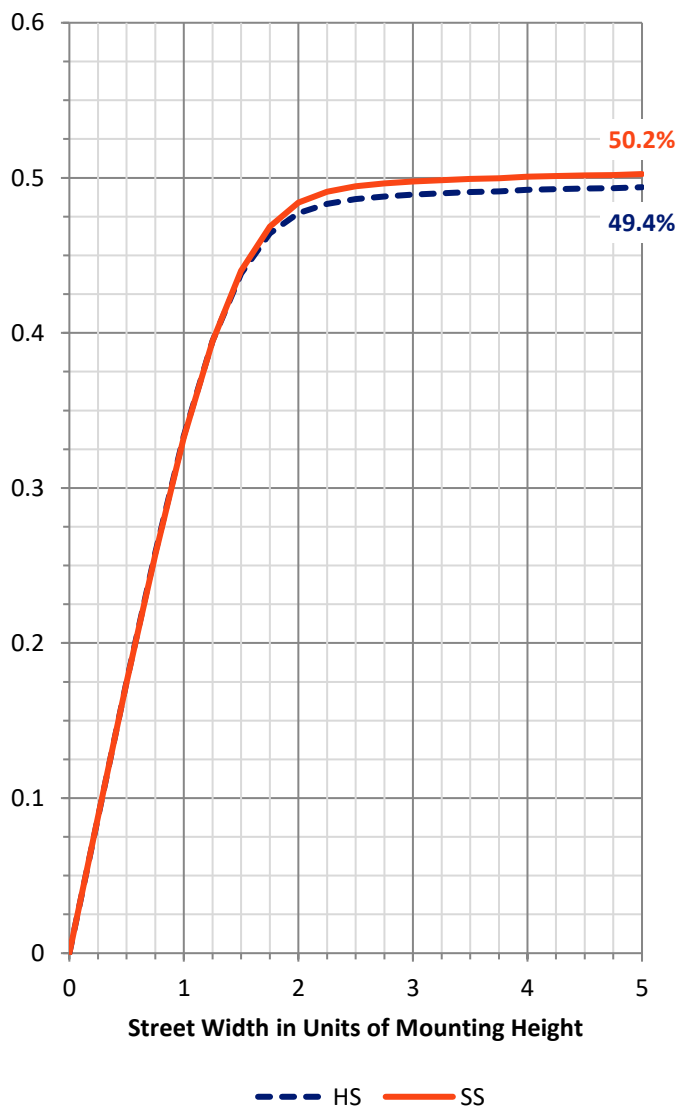
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10159.8	0.0	10159.8
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	10305.4	0.0	10305.4
	% Fixture	50.4	0.0	50.4
Total	Lumens	20465.2	0.0	20465.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.6	1.0
10°-20°	710.2	3.5
20°-30°	1375.2	6.7
30°-40°	2326.0	11.4
40°-50°	3710.7	18.1
50°-60°	5079.2	24.8
60°-70°	4787.5	23.4
70°-80°	2109.0	10.3
80°-90°	158.7	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°	20465.2	100.0
0°-180°	20465.2	100.0

Coefficient of Utilization



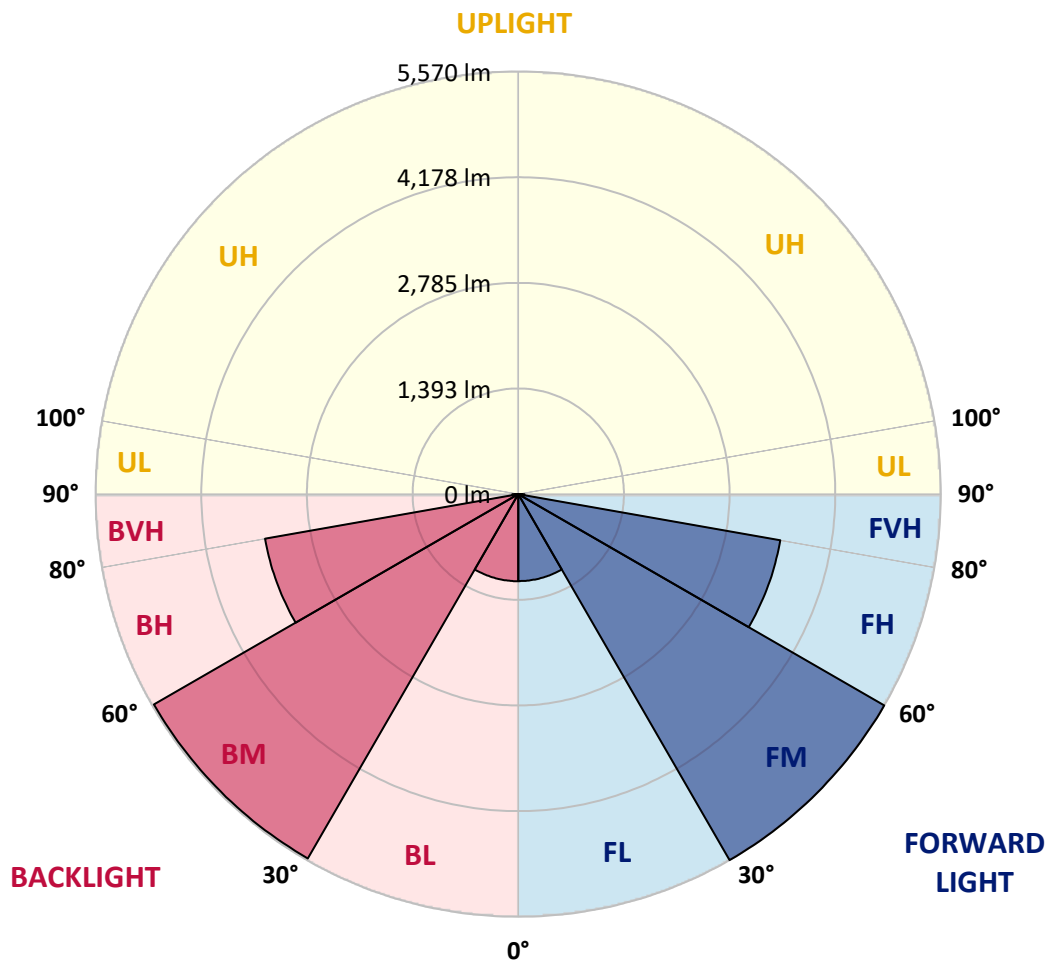
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1146.4	5.6			
FM (30°-60°)	5570.4	27.2			
FH (60°-80°)	3507.5	17.1			G2/5000
FVH (80°-90°)	81.1	0.4			G1/100
BL (0°-30°)	1147.6	5.6	B3/2500		
BM (30°-60°)	5545.5	27.1	B4/8500		
BH (60°-80°)	3389.0	16.6	B4/5000		G4/5000
BVH (80°-90°)	77.6	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°	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6
2.5°	2082.4	2082.4	2080.2	2091.2	2102.2	2106.6	2115.5	2117.7	2130.9	2119.9	2141.9
5°	2075.8	2073.6	2091.2	2117.7	2117.7	2146.3	2164.0	2188.3	2194.9	2208.1	2212.5
7.5°	2122.1	2117.7	2108.8	2137.5	2161.8	2205.9	2230.2	2272.1	2287.5	2305.2	2325.0
10°	2150.8	2150.8	2141.9	2192.7	2214.7	2274.3	2327.2	2369.1	2428.7	2448.6	2450.8
12.5°	2155.2	2161.8	2188.3	2254.4	2316.2	2393.4	2433.1	2512.5	2572.1	2609.6	2622.8
15°	2221.3	2208.1	2236.8	2327.2	2417.7	2486.1	2556.6	2614.0	2700.0	2748.6	2779.4
17.5°	2280.9	2267.7	2320.6	2428.7	2521.4	2627.2	2689.0	2750.8	2812.5	2856.7	2858.9
20°	2375.8	2386.8	2433.1	2550.0	2671.4	2764.0	2834.6	2845.6	2876.5	2940.5	2929.4
22.5°	2492.7	2483.9	2580.9	2708.9	2841.2	2918.4	2958.1	2929.4	2914.0	2982.4	2997.8
25°	2609.6	2636.1	2724.3	2843.4	3002.2	3105.9	3116.9	3037.5	2980.2	3004.4	2997.8
27.5°	2788.3	2792.7	2885.3	3026.5	3187.5	3278.0	3271.4	3158.9	3048.6	3050.8	3055.2
30°	3017.7	2995.6	3097.1	3225.0	3383.9	3465.5	3476.5	3315.5	3167.7	3123.6	3134.6
32.5°	3238.3	3264.7	3353.0	3498.6	3615.5	3661.8	3637.5	3494.2	3302.2	3242.7	3249.3
35°	3520.6	3516.2	3637.5	3761.1	3849.3	3858.1	3838.3	3628.7	3447.8	3370.6	3339.7
37.5°	3822.8	3862.5	3942.0	4043.4	4136.1	4140.5	4032.4	3864.8	3642.0	3514.0	3551.5
40°	4160.3	4204.5	4261.8	4409.6	4478.0	4407.4	4297.1	4069.9	3838.3	3725.8	3743.4
42.5°	4458.1	4478.0	4594.9	4769.2	4802.3	4771.4	4608.1	4332.4	4063.3	3939.8	3948.6
45°	4731.7	4758.1	4910.4	5067.0	5144.2	5091.2	4901.5	4639.0	4325.8	4219.9	4178.0
47.5°	4983.1	5036.1	5183.9	5344.9	5464.0	5468.4	5234.6	4917.0	4586.1	4447.1	4444.9
50°	5153.0	5230.2	5375.8	5558.9	5733.2	5801.5	5567.7	5225.8	4870.6	4722.8	4707.4
52.5°	5245.6	5325.1	5470.7	5755.2	5949.3	6055.2	5944.9	5514.8	5203.7	5049.3	5025.1
55°	5133.1	5186.1	5424.3	5823.6	6123.6	6297.9	6225.1	5914.0	5534.6	5408.9	5430.9
57.5°	4654.5	4764.8	5058.1	5556.7	6119.2	6547.1	6540.5	6291.3	5916.2	5797.1	5801.5
60°	3831.7	3924.3	4286.1	4983.1	5872.1	6648.6	6882.4	6657.4	6344.2	6205.2	6200.8
62.5°	2704.4	2821.4	3240.5	4001.5	5144.2	6507.4	7275.1	7118.5	6763.3	6661.8	6699.3
65°	1513.3	1583.8	1972.1	2660.3	3919.9	5730.9	7345.7	7597.1	7189.1	7034.6	7041.3
67.5°	809.6	836.0	1016.9	1396.3	2397.8	4418.4	6633.2	7872.9	7650.1	7383.2	7341.3
70°	555.9	564.7	611.0	714.7	1133.8	2642.7	5003.0	7381.0	7996.4	7632.4	7703.0
72.5°	469.9	465.4	476.5	487.5	593.4	1182.4	2936.1	5680.2	7548.6	7411.9	7385.4
75°	408.1	405.9	410.3	399.3	412.5	520.6	1299.3	3540.5	5525.8	6167.7	6267.0
77.5°	337.5	339.7	341.9	330.9	326.5	344.1	522.8	1555.2	2719.9	3002.2	3238.3
80°	255.9	260.3	277.9	266.9	249.3	251.5	308.8	520.6	780.9	708.1	730.2
82.5°	174.3	176.5	214.0	200.7	187.5	169.9	198.5	269.1	304.4	231.6	202.9
85°	123.5	121.3	139.0	127.9	119.1	86.0	119.1	152.2	183.1	114.7	103.7
87.5°	28.7	28.7	57.4	46.3	44.1	35.3	46.3	59.6	79.4	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



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6
2.5°	2135.3	2115.5	2115.5	2111.1	2093.4	2089.0	2073.6	2078.0	2066.9	2055.9
5°	2210.3	2183.8	2183.8	2146.3	2111.1	2106.6	2089.0	2089.0	2071.3	2075.8
7.5°	2314.0	2289.7	2250.0	2216.9	2168.4	2148.6	2115.5	2111.1	2106.6	2097.8
10°	2437.5	2406.6	2366.9	2298.6	2258.9	2221.3	2188.3	2141.9	2130.9	2133.1
12.5°	2605.2	2556.6	2470.6	2411.1	2360.3	2311.8	2263.3	2194.9	2179.4	2186.1
15°	2724.3	2662.5	2576.5	2554.4	2486.1	2426.5	2347.1	2269.9	2243.4	2236.8
17.5°	2821.4	2770.6	2719.9	2686.8	2631.6	2558.9	2448.6	2360.3	2300.8	2294.1
20°	2900.8	2834.6	2823.6	2843.4	2775.0	2726.5	2591.9	2483.9	2404.4	2371.4
22.5°	2949.3	2907.4	2938.3	2955.9	2951.5	2869.9	2730.9	2605.2	2505.9	2475.0
25°	3002.2	2953.7	3064.0	3123.6	3139.0	3004.4	2896.4	2730.9	2633.9	2614.0
27.5°	3028.7	3046.4	3174.3	3300.0	3289.0	3185.3	3039.7	2891.9	2814.7	2779.4
30°	3105.9	3134.6	3328.7	3469.9	3472.1	3370.6	3260.3	3092.7	3006.7	2991.2
32.5°	3244.9	3280.2	3487.5	3637.5	3664.0	3586.8	3476.5	3372.8	3284.6	3249.3
35°	3350.8	3441.2	3675.0	3811.8	3882.4	3836.1	3774.3	3666.2	3573.6	3542.7
37.5°	3503.0	3628.7	3853.7	4039.0	4118.4	4114.0	4067.7	3950.8	3873.6	3847.1
40°	3721.4	3847.1	4052.3	4297.1	4444.9	4438.3	4411.8	4321.4	4206.7	4193.4
42.5°	3953.0	4056.7	4323.6	4603.7	4815.5	4793.4	4722.8	4617.0	4537.6	4519.9
45°	4178.0	4339.0	4586.1	4945.6	5104.5	5159.6	5075.8	4894.9	4804.5	4793.4
47.5°	4460.3	4588.3	4897.1	5219.2	5455.2	5464.0	5320.7	5153.0	4987.6	5022.9
50°	4711.8	4881.7	5194.9	5547.9	5830.2	5728.7	5545.7	5336.1	5217.0	5170.6
52.5°	4980.9	5188.3	5552.3	5911.8	6068.5	5967.0	5669.2	5435.4	5254.5	5234.6
55°	5373.6	5481.7	5958.2	6233.9	6284.6	6070.7	5631.7	5300.8	5067.0	5009.6
57.5°	5772.9	5898.6	6315.5	6553.8	6500.8	6013.3	5389.0	4877.3	4570.6	4489.0
60°	6176.5	6331.0	6681.7	6900.1	6626.5	5618.4	4703.0	4043.4	3686.1	3613.3
62.5°	6626.5	6827.3	7140.5	7217.7	6253.8	4837.6	3732.4	2918.4	2556.6	2435.3
65°	7025.8	7231.0	7617.0	7151.6	5461.8	3608.9	2413.3	1667.7	1400.8	1303.7
67.5°	7354.5	7586.1	7775.8	6328.8	3999.3	2113.3	1257.4	878.0	778.7	743.4
70°	7614.8	8000.8	7114.1	4652.3	2285.3	1030.2	679.4	577.9	564.7	555.9
72.5°	7387.6	7336.9	5311.8	2684.6	1001.5	566.9	491.9	476.5	474.3	476.5
75°	6042.0	5389.0	3176.5	1166.9	502.9	410.3	408.1	401.5	412.5	412.5
77.5°	2931.7	2563.3	1328.0	500.7	330.9	322.1	333.1	333.1	333.1	333.1
80°	679.4	752.2	474.3	304.4	240.4	240.4	264.7	266.9	255.9	251.5
82.5°	231.6	308.8	260.3	191.9	158.8	178.7	200.7	205.1	169.9	172.1
85°	114.7	180.9	141.2	110.3	81.6	110.3	130.1	136.8	116.9	112.5
87.5°	52.9	79.4	52.9	37.5	28.7	39.7	37.5	30.9	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)