

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: P481162

Luminaire Tested: **IFLD-S-SA3D-727-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481162
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-727-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

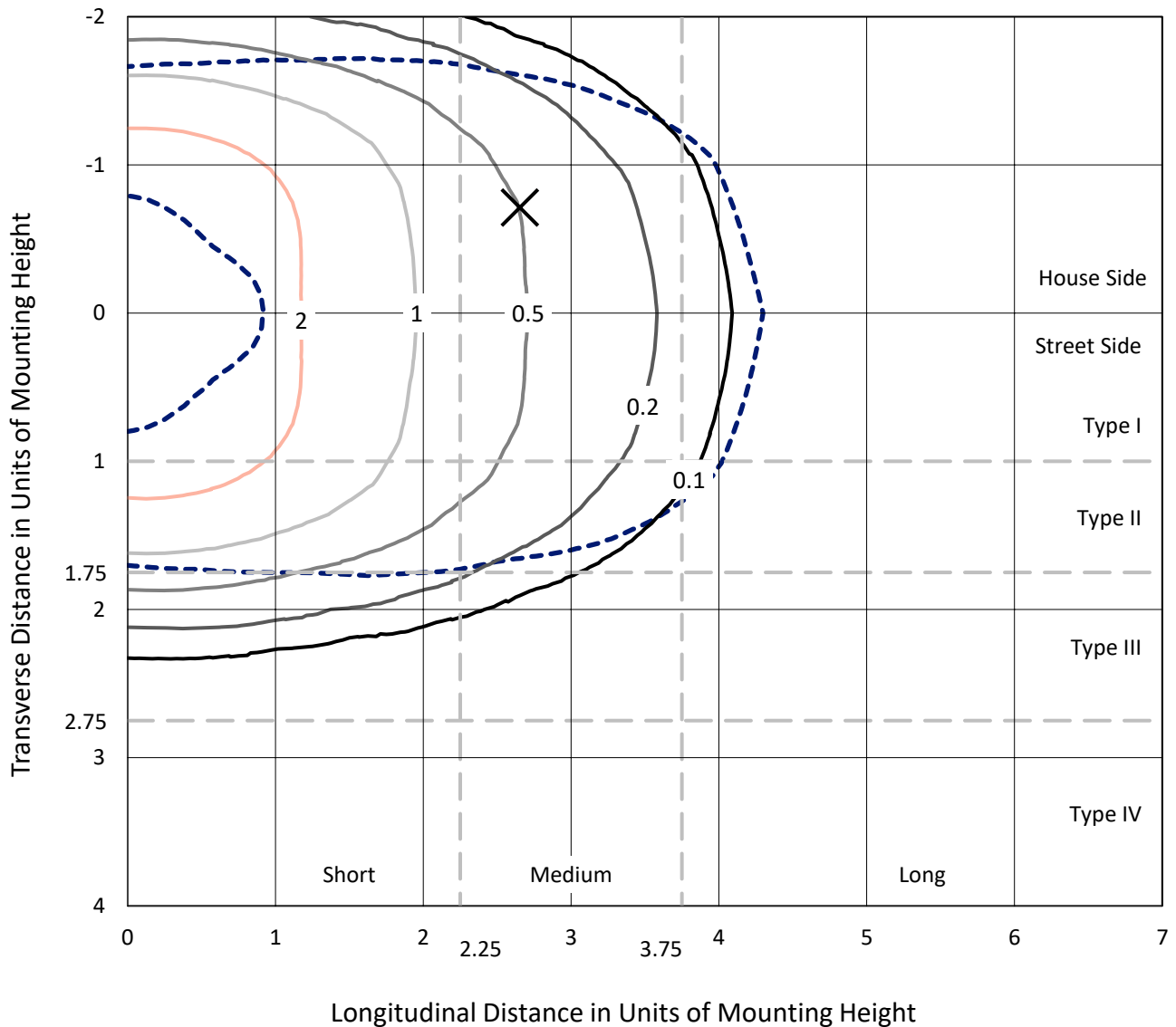
Lumens per Lamp: N/A
Luminaire Lumens: 20076.9 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 184.1
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

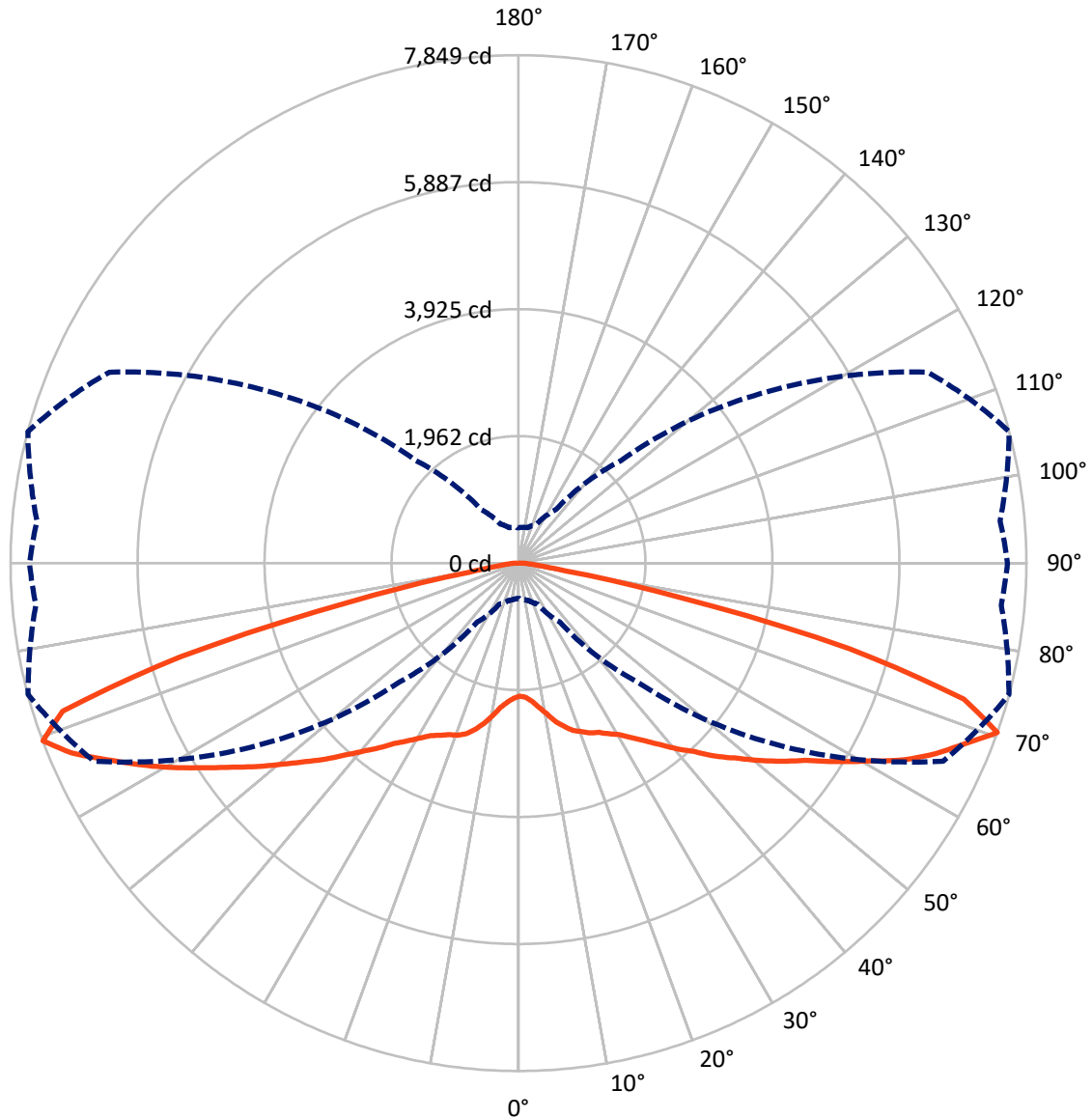
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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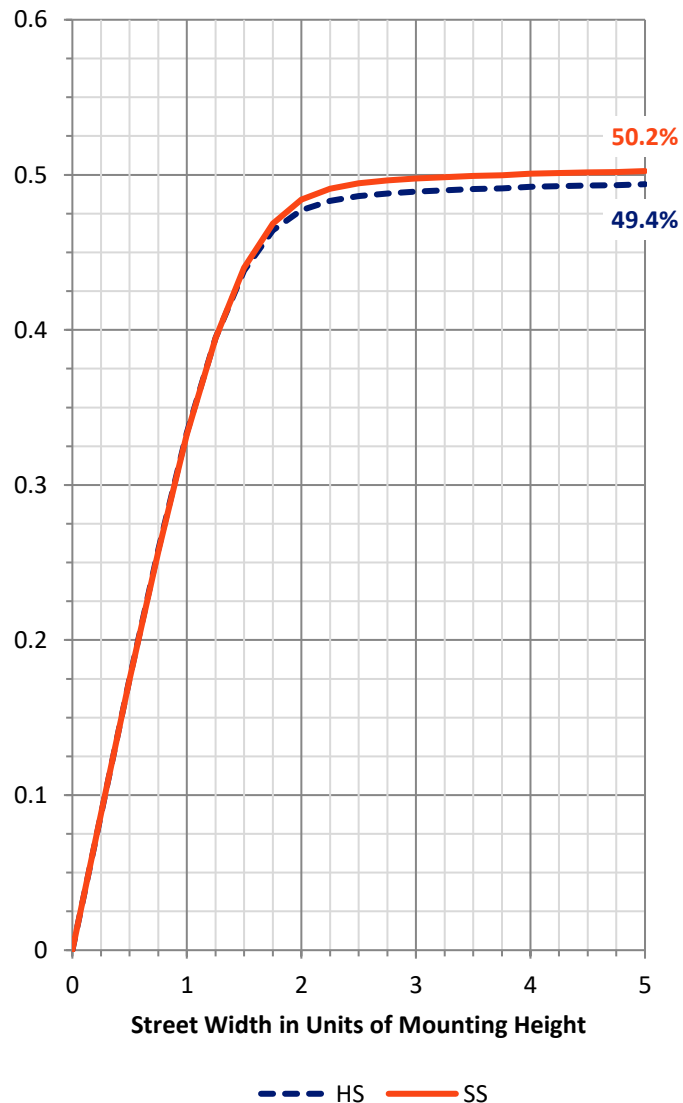
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9967.1	0.0	9967.1
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	10109.9	0.0	10109.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	20076.9	0.0	20076.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.6	1.0
10°-20°	696.7	3.5
20°-30°	1349.1	6.7
30°-40°	2281.9	11.4
40°-50°	3640.3	18.1
50°-60°	4982.8	24.8
60°-70°	4696.7	23.4
70°-80°	2069.0	10.3
80°-90°	155.7	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°	20076.9	100.0
0°-180°	20076.9	100.0

Coefficient of Utilization

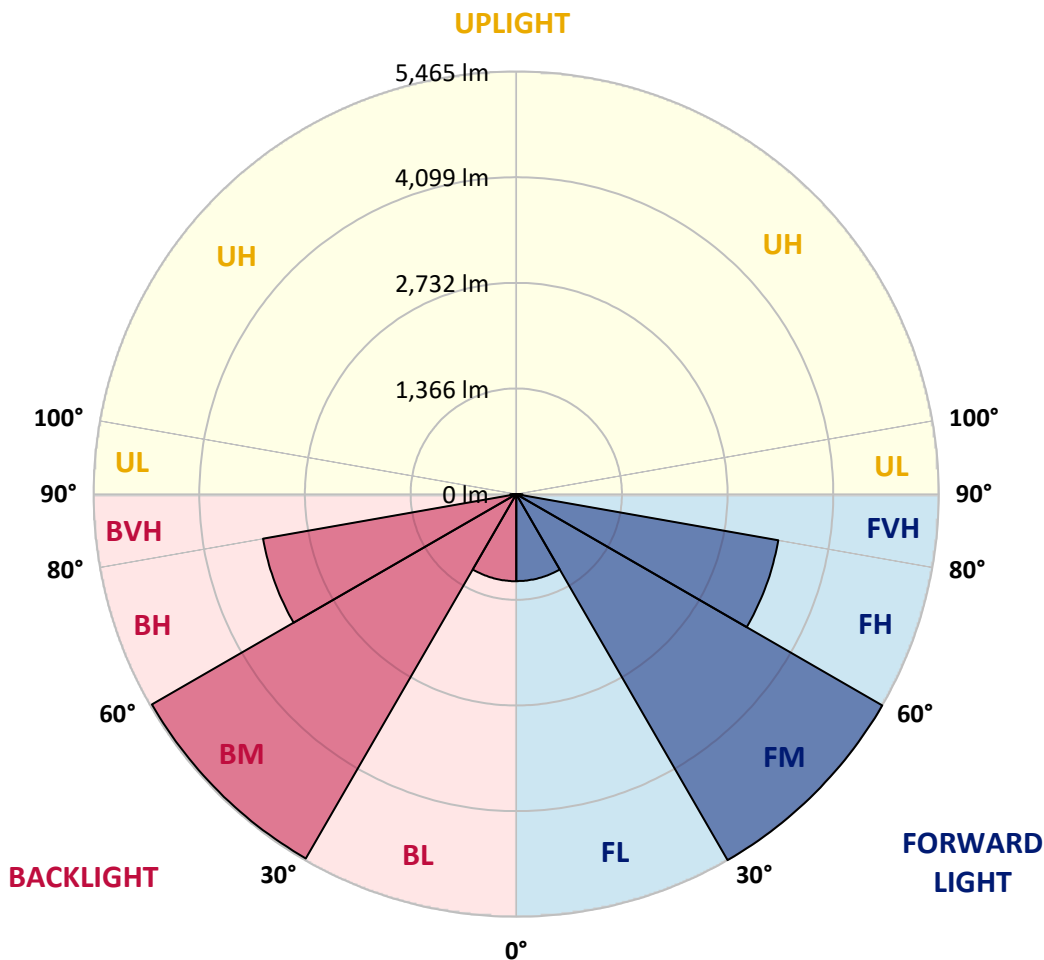


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1124.6	5.6			
FM (30°-60°)	5464.8	27.2			
FH (60°-80°)	3441.0	17.1			G2/5000
FVH (80°-90°)	79.5	0.4			G1/100
BL (0°-30°)	1125.9	5.6	B3/2500		
BM (30°-60°)	5440.3	27.1	B4/8500		
BH (60°-80°)	3324.7	16.6	B4/5000		G4/5000
BVH (80°-90°)	76.2	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°	2055.9	2055.9	2055.9	2055.9	2055.9	2055.9	2055.9	2055.9	2055.9	2055.9	2055.9
2.5°	2042.9	2042.9	2040.7	2051.5	2062.4	2066.7	2075.3	2077.5	2090.5	2079.7	2101.3
5°	2036.4	2034.2	2051.5	2077.5	2077.5	2105.6	2122.9	2146.7	2153.2	2166.2	2170.6
7.5°	2081.8	2077.5	2068.8	2097.0	2120.8	2164.1	2187.9	2229.0	2244.1	2261.4	2280.9
10°	2110.0	2110.0	2101.3	2151.1	2172.7	2231.1	2283.1	2324.2	2382.6	2402.1	2404.3
12.5°	2114.3	2120.8	2146.7	2211.7	2272.3	2348.0	2387.0	2464.9	2523.3	2560.1	2573.1
15°	2179.2	2166.2	2194.4	2283.1	2371.8	2438.9	2508.1	2564.4	2648.8	2696.4	2726.7
17.5°	2237.6	2224.7	2276.6	2382.6	2473.5	2577.4	2638.0	2698.6	2759.2	2802.5	2804.6
20°	2330.7	2341.5	2387.0	2501.7	2620.7	2711.6	2780.8	2791.6	2821.9	2884.7	2873.9
22.5°	2445.4	2436.7	2532.0	2657.5	2787.3	2863.1	2902.0	2873.9	2858.7	2925.8	2941.0
25°	2560.1	2586.1	2672.6	2789.5	2945.3	3047.0	3057.8	2979.9	2923.6	2947.5	2941.0
27.5°	2735.4	2739.7	2830.6	2969.1	3127.1	3215.8	3209.3	3098.9	2990.7	2992.9	2997.2
30°	2960.4	2938.8	3038.3	3163.9	3319.7	3399.7	3410.6	3252.6	3107.6	3064.3	3075.1
32.5°	3176.8	3202.8	3289.4	3432.2	3546.9	3592.3	3568.5	3427.9	3239.6	3181.2	3187.7
35°	3453.8	3449.5	3568.5	3689.7	3776.3	3784.9	3765.5	3559.9	3382.4	3306.7	3276.4
37.5°	3750.3	3789.3	3867.2	3966.7	4057.6	4061.9	3955.9	3791.4	3572.9	3447.3	3484.1
40°	4081.4	4124.7	4181.0	4326.0	4393.0	4323.8	4215.6	3992.7	3765.5	3655.1	3672.4
42.5°	4373.6	4393.0	4507.7	4678.7	4711.2	4680.9	4520.7	4250.2	3986.2	3865.0	3873.7
45°	4641.9	4667.9	4817.2	4970.8	5046.6	4994.7	4808.5	4551.0	4243.7	4139.8	4098.7
47.5°	4888.6	4940.6	5085.5	5243.5	5360.4	5364.7	5135.3	4823.7	4499.1	4362.7	4360.6
50°	5055.2	5131.0	5273.8	5453.4	5624.4	5691.5	5462.1	5126.7	4778.2	4633.3	4618.1
52.5°	5146.1	5224.0	5366.9	5646.0	5836.5	5940.3	5832.1	5410.2	5105.0	4953.5	4929.7
55°	5035.8	5087.7	5321.4	5713.1	6007.4	6178.4	6107.0	5801.8	5429.6	5306.3	5327.9
57.5°	4566.2	4674.4	4962.2	5451.3	6003.1	6422.9	6416.4	6171.9	5804.0	5687.2	5691.5
60°	3759.0	3849.9	4204.8	4888.6	5760.7	6522.5	6751.9	6531.1	6223.8	6087.5	6083.2
62.5°	2653.1	2767.8	3179.0	3925.6	5046.6	6384.0	7137.1	6983.4	6635.0	6535.5	6572.3
65°	1484.5	1553.8	1934.7	2609.9	3845.5	5622.2	7206.3	7453.0	7052.7	6901.2	6907.7
67.5°	794.2	820.2	997.6	1369.9	2352.3	4334.6	6507.3	7723.5	7505.0	7243.1	7202.0
70°	545.3	554.0	599.4	701.2	1112.3	2592.5	4908.1	7240.9	7844.7	7487.7	7556.9
72.5°	460.9	456.6	467.4	478.3	582.1	1159.9	2880.4	5572.5	7405.4	7271.2	7245.3
75°	400.4	398.2	402.5	391.7	404.7	510.7	1274.6	3473.3	5421.0	6050.7	6148.1
77.5°	331.1	333.3	335.4	324.6	320.3	337.6	512.9	1525.7	2668.3	2945.3	3176.8
80°	251.0	255.4	272.7	261.9	244.5	246.7	303.0	510.7	766.1	694.7	716.3
82.5°	171.0	173.1	209.9	196.9	183.9	166.6	194.8	264.0	298.6	227.2	199.1
85°	121.2	119.0	136.3	125.5	116.9	84.4	116.9	149.3	179.6	112.5	101.7
87.5°	28.1	28.1	56.3	45.4	43.3	34.6	45.4	58.4	77.9	49.8	45.4
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°	2055.9	2055.9	2055.9	2055.9	2055.9	2055.9	2055.9	2055.9	2055.9	2055.9
2.5°	2094.8	2075.3	2075.3	2071.0	2053.7	2049.4	2034.2	2038.5	2027.7	2016.9
5°	2168.4	2142.4	2142.4	2105.6	2071.0	2066.7	2049.4	2049.4	2032.1	2036.4
7.5°	2270.1	2246.3	2207.3	2174.9	2127.3	2107.8	2075.3	2071.0	2066.7	2058.0
10°	2391.3	2361.0	2322.0	2255.0	2216.0	2179.2	2146.7	2101.3	2090.5	2092.6
12.5°	2555.8	2508.1	2423.7	2365.3	2315.5	2267.9	2220.3	2153.2	2138.1	2144.6
15°	2672.6	2612.0	2527.6	2506.0	2438.9	2380.5	2302.6	2226.8	2200.9	2194.4
17.5°	2767.8	2718.1	2668.3	2635.8	2581.7	2510.3	2402.1	2315.5	2257.1	2250.6
20°	2845.7	2780.8	2770.0	2789.5	2722.4	2674.8	2542.8	2436.7	2358.8	2326.4
22.5°	2893.3	2852.2	2882.5	2899.8	2895.5	2815.4	2679.1	2555.8	2458.4	2428.1
25°	2945.3	2897.7	3005.9	3064.3	3079.5	2947.5	2841.4	2679.1	2583.9	2564.4
27.5°	2971.3	2988.6	3114.1	3237.4	3226.6	3124.9	2982.1	2837.1	2761.3	2726.7
30°	3047.0	3075.1	3265.6	3404.1	3406.2	3306.7	3198.5	3034.0	2949.6	2934.5
32.5°	3183.3	3218.0	3421.4	3568.5	3594.5	3518.8	3410.6	3308.8	3222.3	3187.7
35°	3287.2	3375.9	3605.3	3739.5	3808.7	3763.3	3702.7	3596.7	3505.8	3475.5
37.5°	3436.5	3559.9	3780.6	3962.4	4040.3	4036.0	3990.5	3875.8	3800.1	3774.1
40°	3650.8	3774.1	3975.4	4215.6	4360.6	4354.1	4328.1	4239.4	4126.9	4113.9
42.5°	3878.0	3979.7	4241.6	4516.4	4724.1	4702.5	4633.3	4529.4	4451.5	4434.2
45°	4098.7	4256.7	4499.1	4851.8	5007.6	5061.7	4979.5	4802.1	4713.3	4702.5
47.5°	4375.7	4501.2	4804.2	5120.2	5351.7	5360.4	5219.7	5055.2	4892.9	4927.6
50°	4622.4	4789.1	5096.4	5442.6	5719.6	5620.1	5440.5	5234.9	5118.0	5072.6
52.5°	4886.5	5089.9	5446.9	5799.7	5953.3	5853.8	5561.6	5332.2	5154.8	5135.3
55°	5271.7	5377.7	5845.1	6115.6	6165.4	5955.5	5524.8	5200.2	4970.8	4914.6
57.5°	5663.3	5786.7	6195.7	6429.4	6377.5	5899.2	5286.8	4784.7	4483.9	4403.9
60°	6059.4	6210.9	6554.9	6769.2	6500.8	5511.9	4613.8	3966.7	3616.1	3544.7
62.5°	6500.8	6697.8	7005.1	7080.8	6135.1	4745.8	3661.6	2863.1	2508.1	2389.1
65°	6892.5	7093.8	7472.5	7015.9	5358.2	3540.4	2367.5	1636.0	1374.2	1279.0
67.5°	7215.0	7442.2	7628.3	6208.7	3923.4	2073.2	1233.5	861.3	763.9	729.3
70°	7470.3	7849.1	6979.1	4564.0	2242.0	1010.6	666.5	567.0	554.0	545.3
72.5°	7247.4	7197.7	5211.1	2633.7	982.5	556.2	482.6	467.4	465.3	467.4
75°	5927.4	5286.8	3116.2	1144.8	493.4	402.5	400.4	393.9	404.7	404.7
77.5°	2876.0	2514.6	1302.8	491.2	324.6	316.0	326.8	326.8	326.8	326.8
80°	666.5	737.9	465.3	298.6	235.9	235.9	259.7	261.9	251.0	246.7
82.5°	227.2	303.0	255.4	188.3	155.8	175.3	196.9	201.3	166.6	168.8
85°	112.5	177.5	138.5	108.2	80.1	108.2	127.7	134.2	114.7	110.4
87.5°	51.9	77.9	51.9	36.8	28.1	39.0	36.8	30.3	17.3	17.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)