

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: P480733

Luminaire Tested: **IFLD-S-SA3D-722-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480733
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-722-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

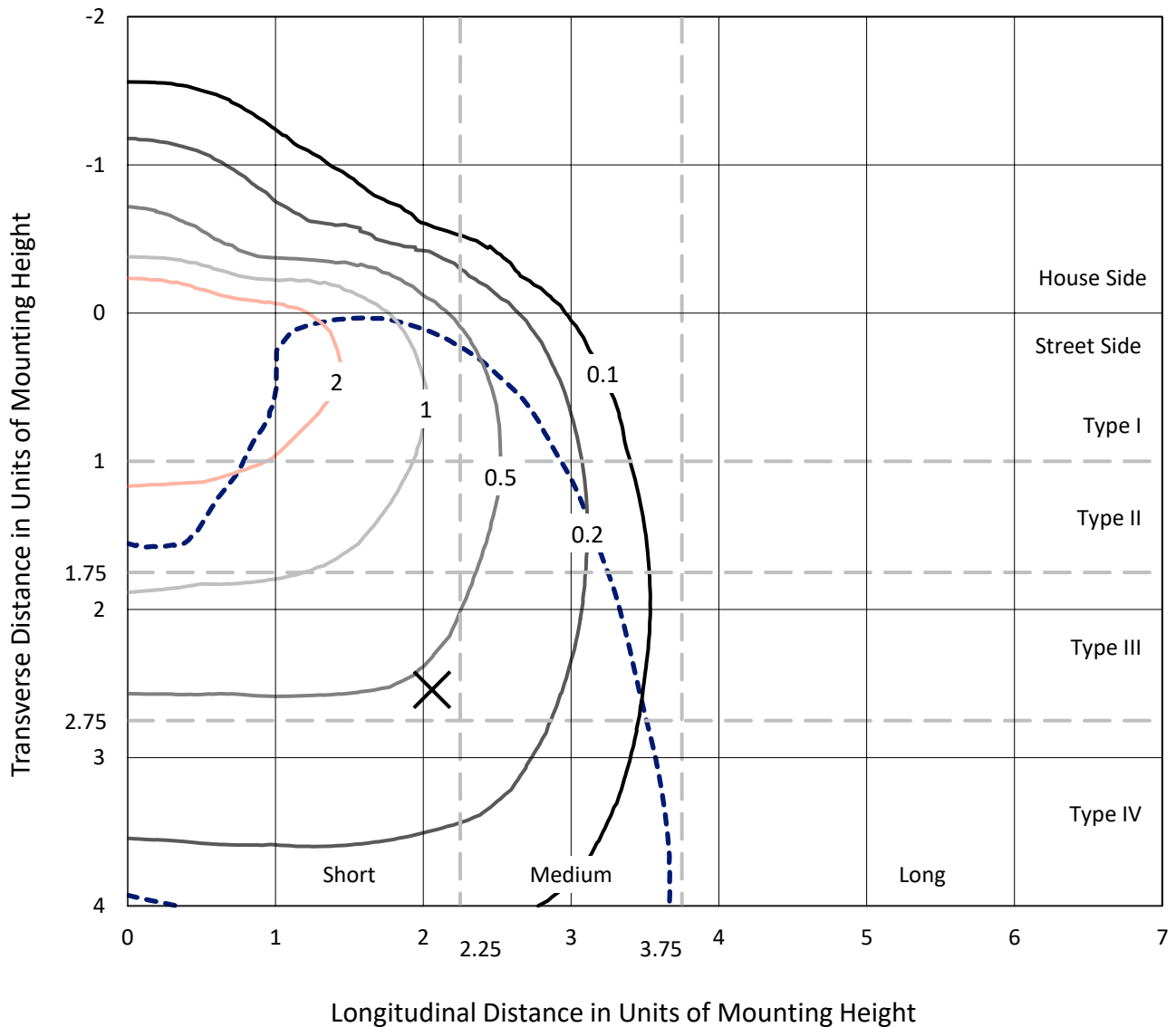
Lumens per Lamp: N/A
Luminaire Lumens: 16606.2 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

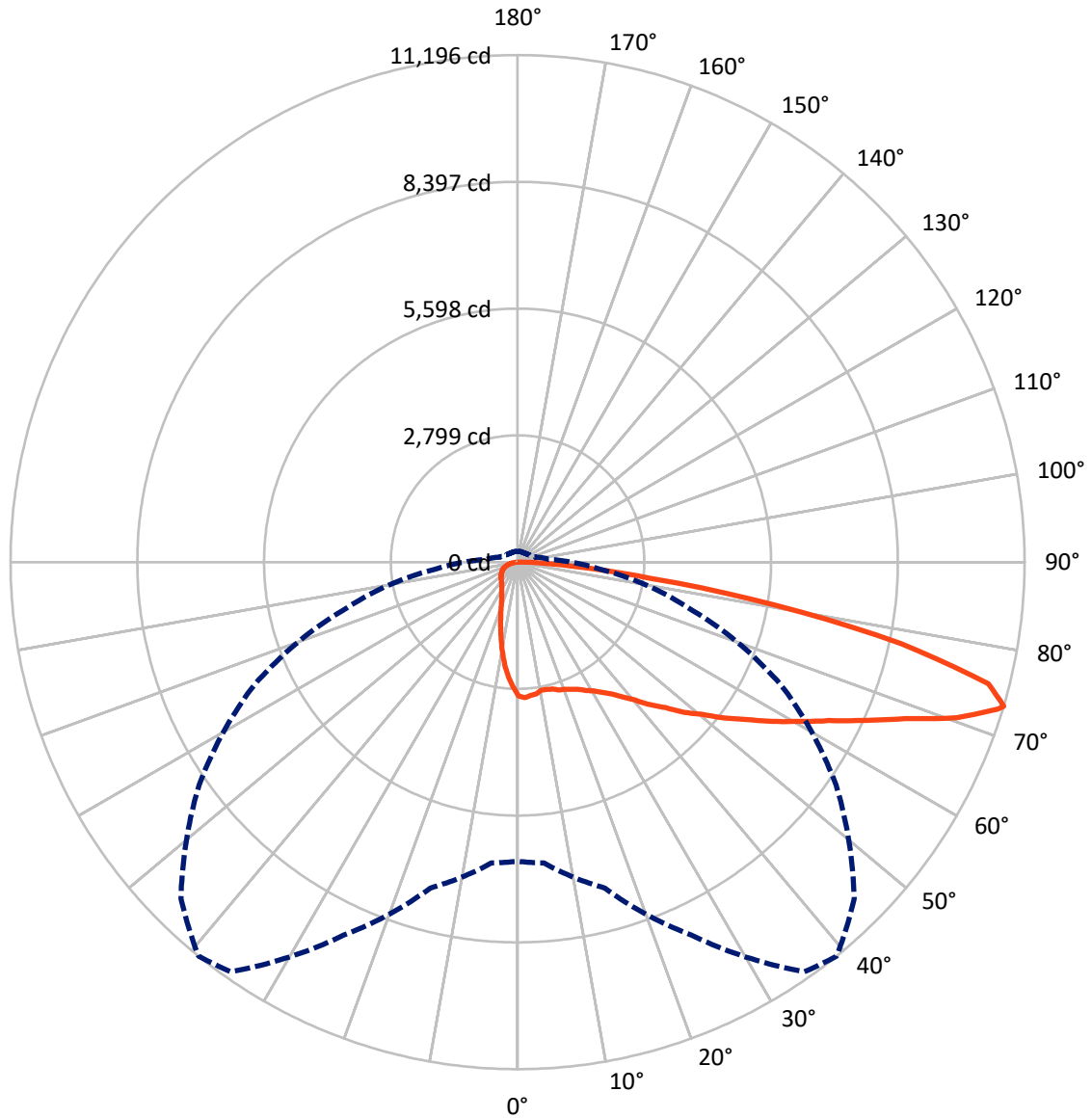
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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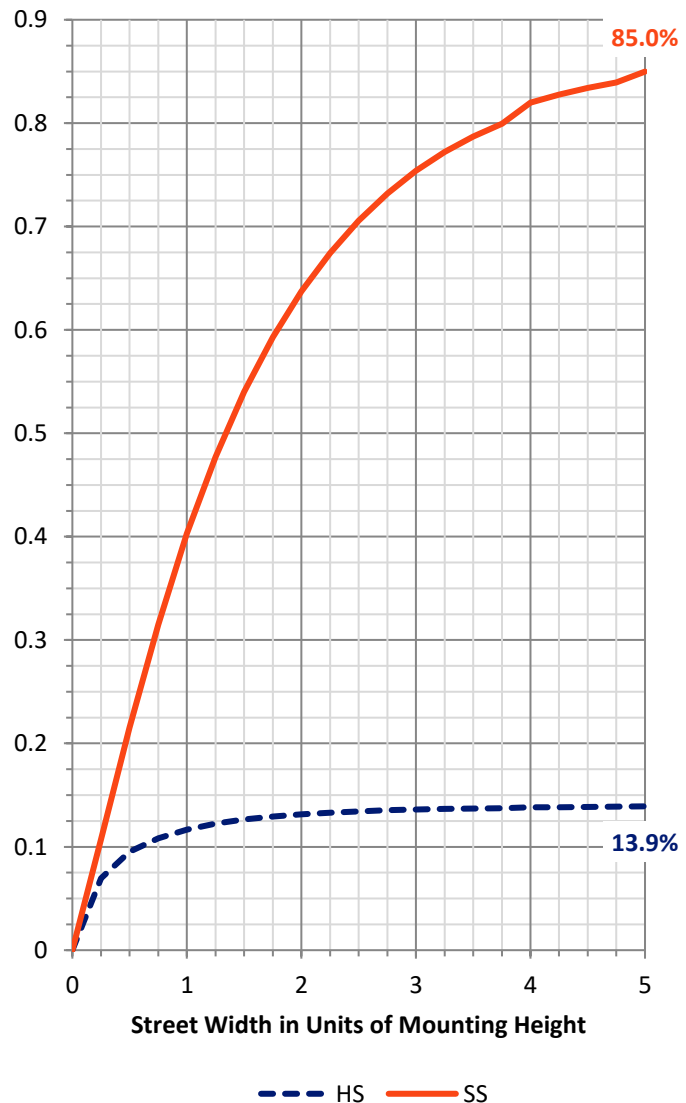
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2334.4	0.0	2334.4
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	14271.8	0.0	14271.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	16606.2	0.0	16606.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.6	1.5
10°-20°	652.3	3.9
20°-30°	996.8	6.0
30°-40°	1453.4	8.8
40°-50°	2196.2	13.2
50°-60°	3180.3	19.2
60°-70°	4040.7	24.3
70°-80°	3275.6	19.7
80°-90°	554.2	3.3
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°	16606.2	100.0
0°-180°	16606.2	100.0

Coefficient of Utilization



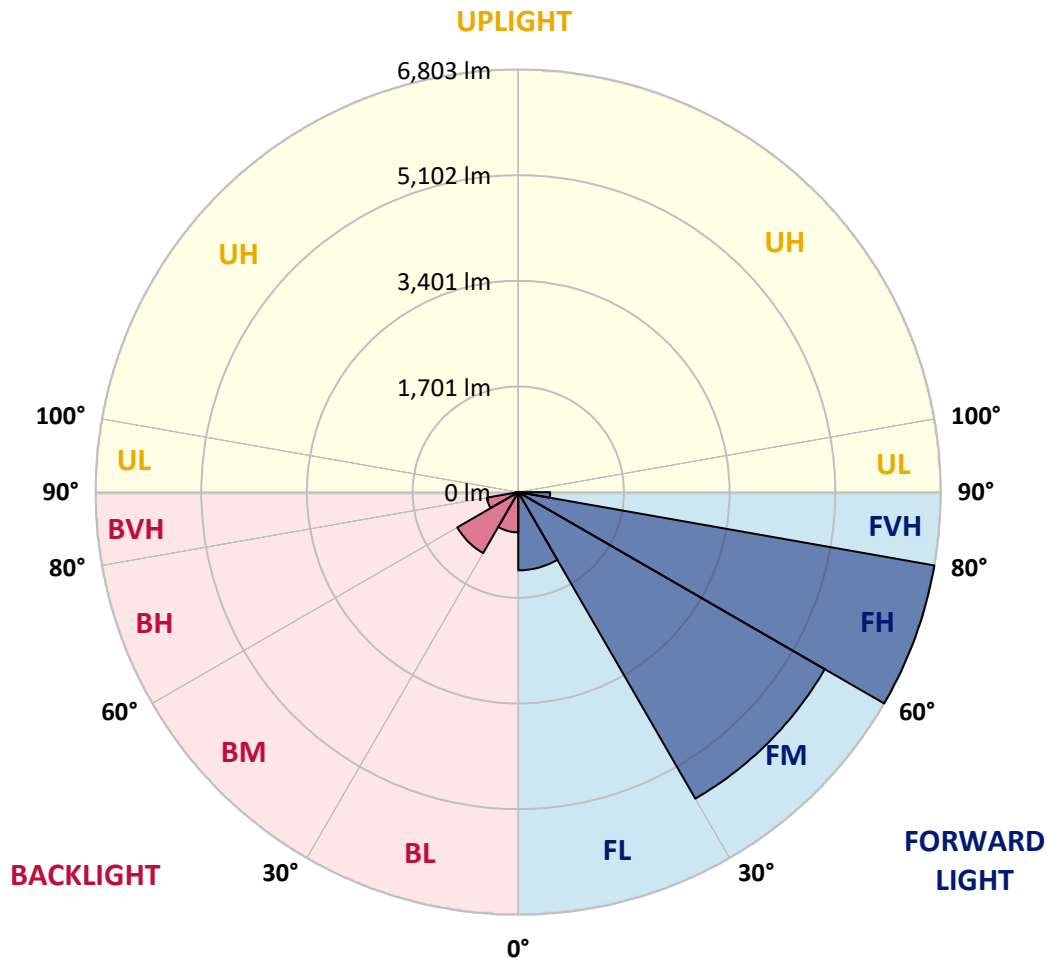
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1258.4	7.6			
FM	(30°-60°)	5697.0	34.3			
FH	(60°-80°)	6802.9	41.0			G3/7500
FVH	(80°-90°)	513.6	3.1			G4/750
BL	(0°-30°)	647.4	3.9	B2/1000		
BM	(30°-60°)	1132.9	6.8	B2/2500		
BH	(60°-80°)	513.4	3.1	B2/1000		G2/1000
BVH	(80°-90°)	40.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2956.0	2956.0	2956.0	2956.0	2956.0	2956.0	2956.0	2956.0	2956.0	2956.0	2956.0
2.5°	3026.6	2995.0	3000.6	2989.4	3000.6	2996.9	2991.3	2963.4	2991.3	2963.4	2956.0
5°	2985.7	2985.7	3004.3	2976.4	2980.2	2961.6	2980.2	2959.7	2941.1	2894.7	2881.7
7.5°	2972.7	2970.9	2972.7	2933.7	2952.3	2941.1	2922.6	2900.3	2863.1	2833.4	2790.6
10°	2883.5	2902.1	2881.7	2892.8	2907.7	2874.3	2872.4	2866.8	2850.1	2811.1	2785.1
12.5°	2835.2	2866.8	2878.0	2868.7	2881.7	2885.4	2874.3	2866.8	2846.4	2820.4	2746.1
15°	2855.7	2818.5	2850.1	2911.4	2898.4	2907.7	2909.6	2902.1	2892.8	2844.5	2796.2
17.5°	2861.3	2839.0	2905.8	2918.8	2935.6	2969.0	2946.7	2944.9	2909.6	2876.1	2805.5
20°	2874.3	2865.0	2918.8	2987.6	2989.4	2995.0	3006.2	2978.3	2959.7	2902.1	2794.4
22.5°	2922.6	2954.1	3004.3	3034.0	3050.8	3054.5	3054.5	2998.7	2978.3	2931.9	2846.4
25°	3067.5	3034.0	3104.6	3139.9	3115.8	3110.2	3097.2	3047.0	3024.8	2983.9	2870.5
27.5°	3173.4	3171.5	3212.4	3260.7	3195.7	3208.7	3162.2	3147.4	3097.2	3074.9	2913.3
30°	3318.3	3359.2	3357.3	3372.2	3286.7	3301.6	3242.1	3214.3	3186.4	3199.4	3039.6
32.5°	3504.1	3489.2	3513.4	3502.2	3416.8	3429.8	3359.2	3316.4	3325.7	3364.8	3212.4
35°	3623.0	3608.1	3617.4	3617.4	3591.4	3576.6	3546.8	3491.1	3535.7	3608.1	3405.6
37.5°	3751.2	3769.8	3823.7	3812.5	3779.1	3779.1	3775.4	3736.3	3793.9	3972.3	3714.1
40°	3864.5	3914.7	3948.2	3970.4	4009.5	4009.5	4041.1	4018.8	4122.8	4408.9	4091.2
42.5°	3983.5	3985.3	4167.4	4184.1	4271.4	4308.6	4332.8	4351.3	4546.4	4866.0	4494.4
45°	4135.8	4145.1	4304.9	4433.1	4568.7	4581.7	4672.8	4734.1	4973.7	5365.8	4932.9
47.5°	4336.5	4325.3	4496.3	4700.6	4869.7	4958.9	5068.5	5135.4	5430.8	5908.3	5412.2
50°	4600.3	4566.9	4665.3	4986.8	5185.6	5284.0	5479.1	5590.6	5936.2	6426.7	5741.1
52.5°	4921.7	4866.0	4944.0	5295.2	5518.1	5716.9	5902.7	6027.2	6387.6	6828.0	5984.5
55°	5261.7	5146.5	5168.8	5622.2	5943.6	6131.3	6385.8	6515.8	6883.7	7188.4	6227.9
57.5°	5598.0	5525.6	5481.0	5936.2	6450.8	6631.0	6865.1	7034.2	7346.4	7508.0	6434.1
60°	5880.4	5861.8	5789.4	6422.9	6987.8	7142.0	7387.2	7491.3	7727.2	7803.4	6437.8
62.5°	6112.7	6049.5	6164.7	6815.0	7534.0	7708.7	7978.1	7987.3	8154.6	7987.3	6248.3
65°	6294.8	6298.5	6482.4	7288.8	8165.7	8424.0	8641.3	8617.2	8509.4	7877.7	5800.5
67.5°	6460.1	6530.7	6800.1	7809.0	8977.6	9221.0	9462.6	9143.0	8606.0	7364.9	4925.4
70°	6590.2	6660.8	7229.3	8442.5	9934.5	10291.2	10345.1	9351.1	8162.0	6239.0	3715.9
72.5°	6575.3	6703.5	7472.7	8947.9	10783.6	11092.0	10657.2	8765.8	6800.1	4349.5	2168.2
73°	6606.9	6670.1	7452.3	9089.1	11041.8	11196.0	10512.3	8581.9	6413.7	3901.7	1833.8
75°	5997.5	6211.1	7082.5	8858.7	10765.0	10737.1	9679.9	7151.3	4559.4	2049.3	888.1
77.5°	4436.8	4572.4	5581.3	7285.0	8836.4	8658.1	7301.8	4570.6	2164.5	759.9	479.4
80°	2168.2	2274.1	2957.9	4206.4	5778.2	5793.1	4531.6	2378.2	927.1	429.2	327.0
82.5°	1083.2	1146.4	1421.3	1848.7	2842.7	2978.3	2298.3	1352.6	574.1	243.4	185.8
85°	707.9	752.5	875.1	904.8	1205.8	1272.7	1070.2	1055.3	373.4	131.9	150.5
87.5°	470.1	477.5	536.9	457.1	483.1	464.5	516.5	665.1	109.6	55.7	40.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2956.0	2956.0	2956.0	2956.0	2956.0	2956.0	2956.0	2956.0	2956.0	2956.0	2956.0
2.5°	2946.7	2920.7	2892.8	2853.8	2825.9	2783.2	2744.2	2727.5	2723.8	2725.6	2707.0
5°	2870.5	2833.4	2777.6	2697.8	2651.3	2580.7	2521.2	2489.7	2456.2	2461.8	2446.9
7.5°	2764.6	2723.8	2638.3	2545.4	2430.2	2329.9	2274.1	2196.1	2151.5	2118.1	2136.6
10°	2731.2	2660.6	2532.4	2404.2	2225.8	2093.9	1965.7	1876.5	1815.2	1755.8	1781.8
12.5°	2714.5	2643.9	2465.5	2276.0	2045.6	1844.9	1664.7	1555.1	1467.8	1415.8	1436.2
15°	2699.6	2612.3	2402.3	2134.8	1876.5	1612.7	1410.2	1265.3	1181.7	1131.5	1137.1
17.5°	2720.0	2595.6	2309.4	1997.3	1690.7	1408.3	1183.5	1033.0	947.6	916.0	908.5
20°	2699.6	2577.0	2218.4	1859.8	1504.9	1213.2	997.7	873.2	813.8	787.8	782.2
22.5°	2707.0	2532.4	2123.6	1707.5	1332.2	1049.7	873.2	778.5	732.0	719.0	722.7
25°	2742.3	2506.4	2028.9	1540.2	1161.2	929.0	793.3	720.9	687.4	674.4	678.2
27.5°	2768.4	2528.7	1943.4	1382.3	1016.3	821.2	726.5	678.2	655.9	646.6	644.7
30°	2833.4	2541.7	1859.8	1241.1	897.4	750.6	680.0	641.0	626.1	620.6	618.7
32.5°	2930.0	2565.8	1763.2	1111.1	810.1	683.7	642.9	609.4	605.7	600.1	602.0
35°	3087.9	2649.4	1655.4	999.6	726.5	639.1	603.8	581.5	581.5	581.5	587.1
37.5°	3314.6	2766.5	1558.8	893.7	672.6	600.1	570.4	563.0	559.2	564.8	568.5
40°	3606.3	2907.7	1480.8	810.1	626.1	574.1	548.1	544.4	542.5	540.7	544.4
42.5°	3925.9	3087.9	1413.9	745.0	592.7	546.2	527.7	523.9	516.5	520.2	525.8
45°	4243.6	3310.9	1354.4	693.0	570.4	531.4	505.4	503.5	499.8	497.9	507.2
47.5°	4596.6	3530.1	1335.9	661.4	553.7	509.1	490.5	488.6	477.5	475.6	483.1
50°	4871.6	3691.8	1356.3	646.6	529.5	492.4	479.4	470.1	460.8	451.5	451.5
52.5°	5061.1	3803.2	1371.2	635.4	516.5	470.1	453.3	449.6	440.3	431.0	427.3
55°	5232.0	3870.1	1374.9	637.3	503.5	444.1	432.9	431.0	425.5	410.6	406.9
57.5°	5289.6	3842.3	1300.6	620.6	496.1	427.3	412.5	416.2	408.8	395.7	393.9
60°	5284.0	3649.0	1131.5	598.3	479.4	408.8	390.2	401.3	401.3	386.5	384.6
62.5°	4962.6	3203.1	925.3	555.5	460.8	390.2	369.7	386.5	392.0	382.7	380.9
65°	4295.6	2608.6	772.9	512.8	432.9	369.7	349.3	367.9	377.2	373.4	371.6
67.5°	3554.3	1995.4	642.9	457.1	397.6	341.9	325.1	338.1	343.7	345.6	347.4
70°	2512.0	1328.4	536.9	395.7	349.3	312.1	293.6	295.4	293.6	299.1	299.1
72.5°	1365.6	765.5	436.6	336.3	301.0	271.3	258.3	249.0	249.0	247.1	247.1
73°	1168.7	687.4	416.2	327.0	288.0	263.8	249.0	241.5	241.5	239.7	237.8
75°	655.9	503.5	356.7	280.6	249.0	230.4	219.2	208.1	206.2	206.2	206.2
77.5°	431.0	392.0	284.3	224.8	200.7	183.9	180.2	169.1	169.1	169.1	167.2
80°	323.3	308.4	219.2	170.9	154.2	141.2	137.5	130.1	128.2	120.8	122.6
82.5°	215.5	243.4	159.8	120.8	104.0	96.6	96.6	94.8	89.2	79.9	79.9
85°	170.9	198.8	115.2	74.3	61.3	52.0	53.9	52.0	50.2	40.9	39.0
87.5°	31.6	79.9	33.4	20.4	14.9	9.3	9.3	5.6	3.7	0.0	0.0
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)