

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: P480755

Luminaire Tested: **IFLD-L-SA7A-722-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480755
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-722-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

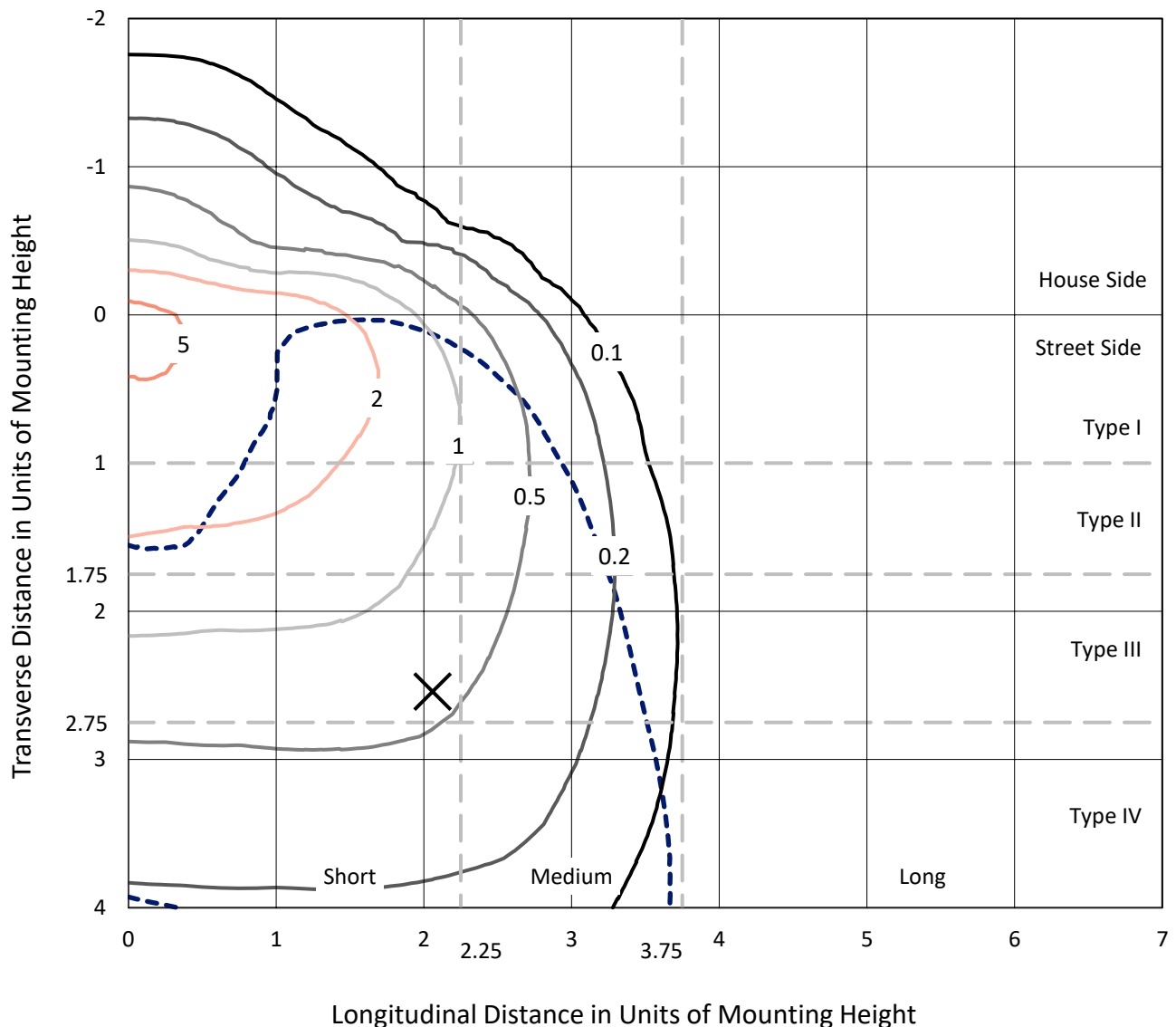
Lumens per Lamp: N/A
Luminaire Lumens: 22301.6 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
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

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Iso-Footcandle Lines of Horizontal Illumination

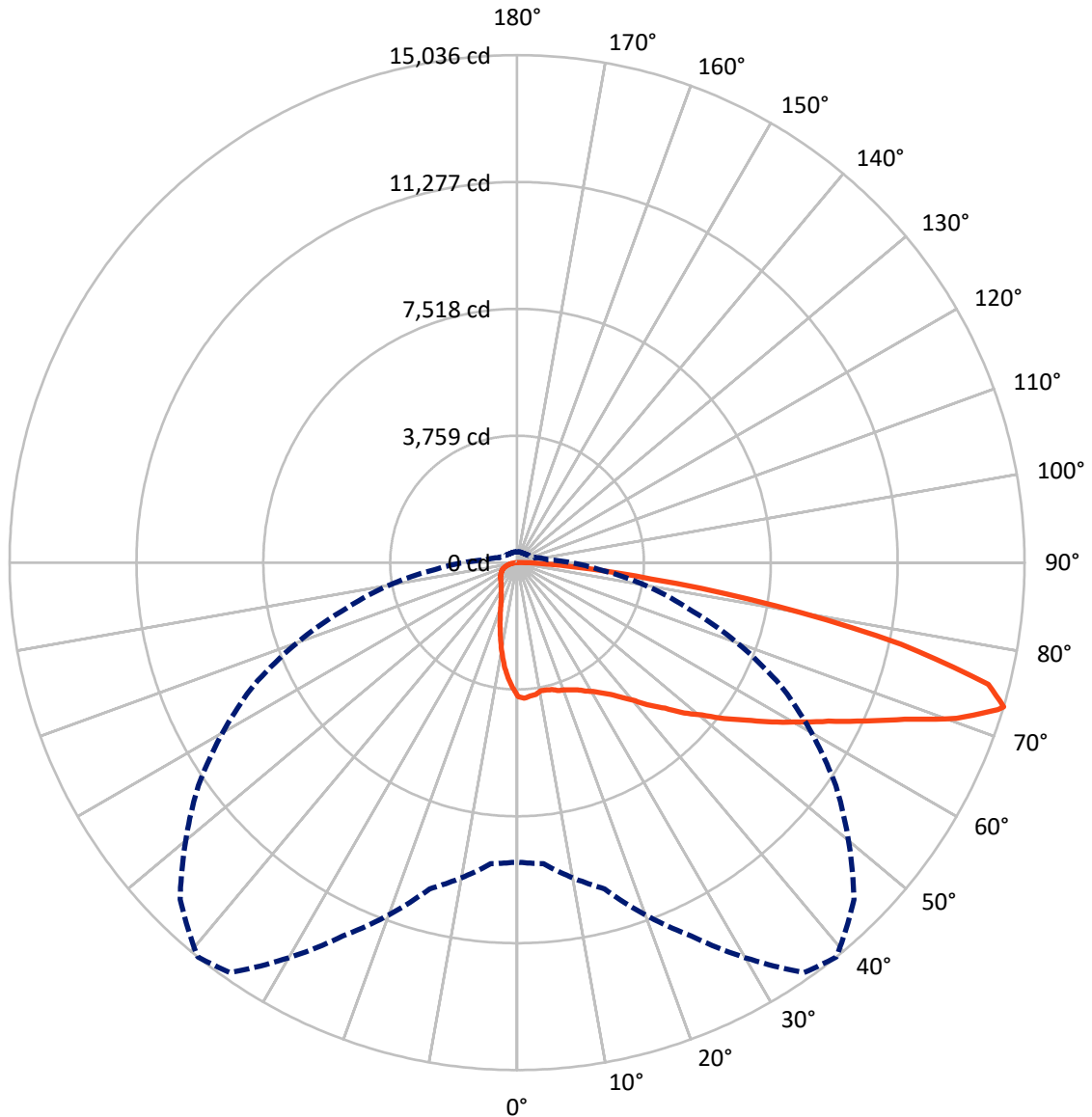
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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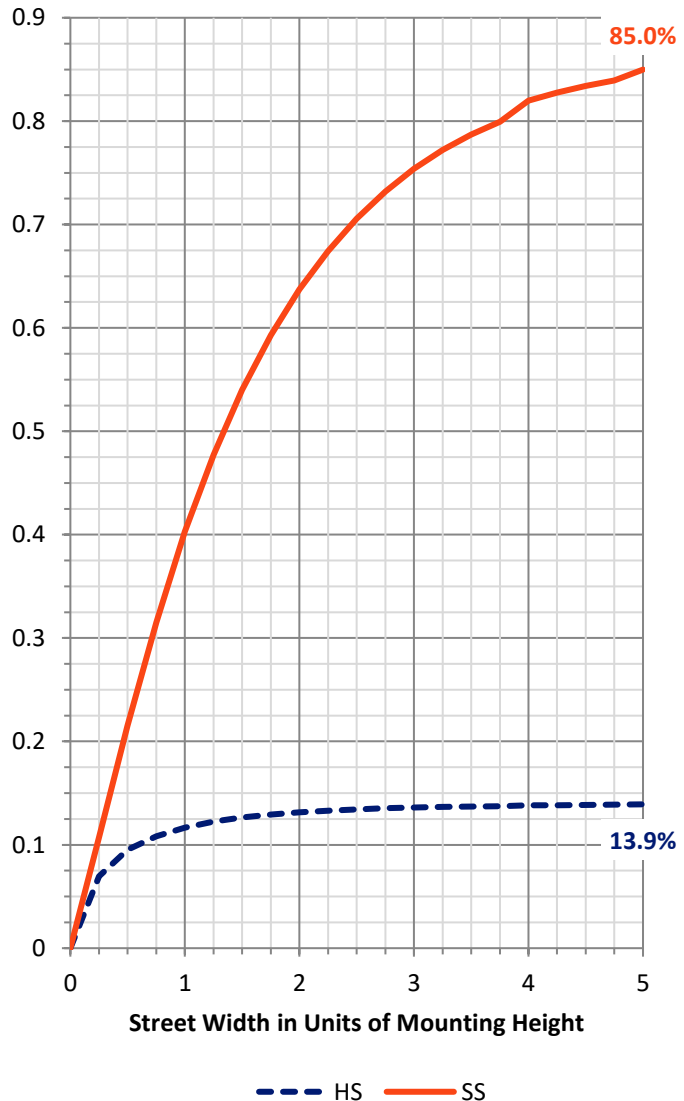
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3135.0	0.0	3135.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	19166.6	0.0	19166.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	22301.6	0.0	22301.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.6	1.5
10°-20°	876.0	3.9
20°-30°	1338.7	6.0
30°-40°	1951.9	8.8
40°-50°	2949.5	13.2
50°-60°	4271.0	19.2
60°-70°	5426.5	24.3
70°-80°	4399.0	19.7
80°-90°	744.3	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°	22301.6	100.0
0°-180°	22301.6	100.0

Coefficient of Utilization



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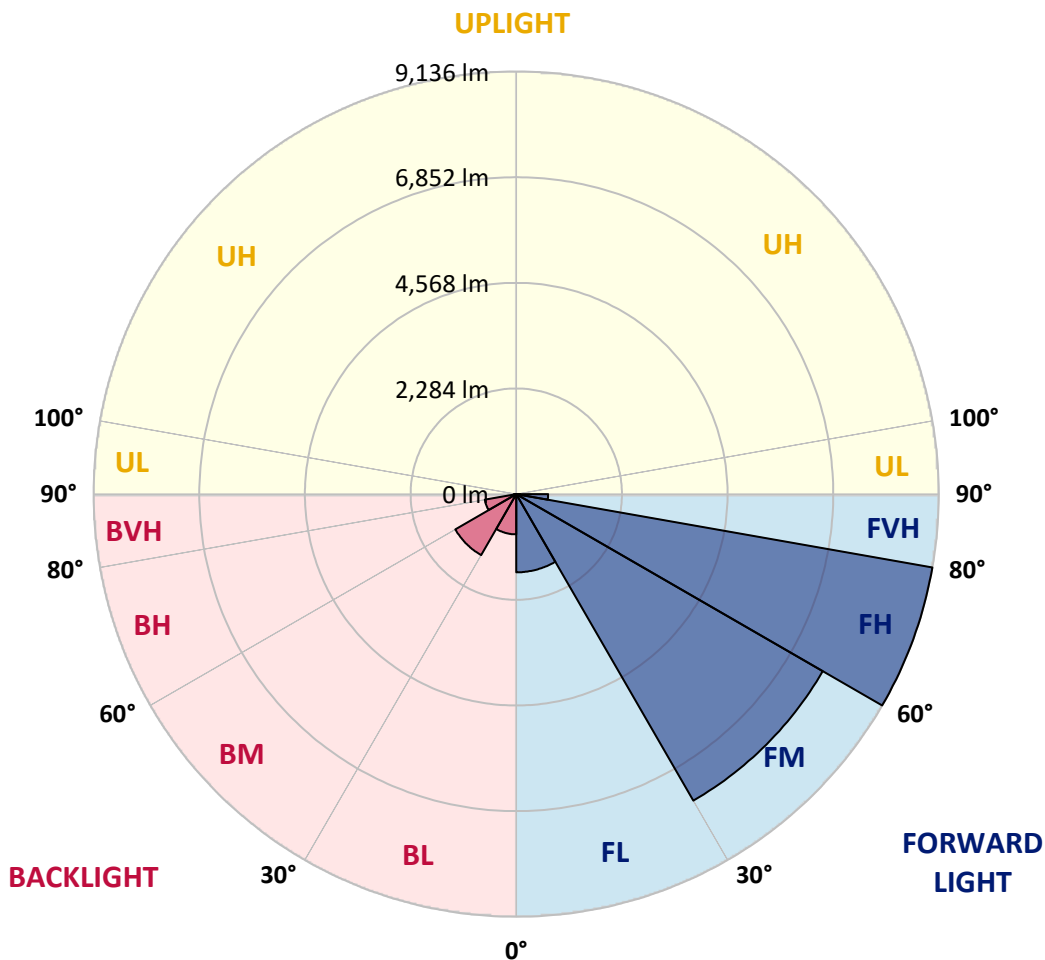
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1690.0	7.6			
FM (30°-60°)	7650.9	34.3			
FH (60°-80°)	9136.1	41.0			G4/12000
FVH (80°-90°)	689.7	3.1			G4/750
BL (0°-30°)	869.4	3.9	B2/1000		
BM (30°-60°)	1521.5	6.8	B2/2500		
BH (60°-80°)	689.5	3.1	B2/1000		G2/1000
BVH (80°-90°)	54.6	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°	3969.8	3969.8	3969.8	3969.8	3969.8	3969.8	3969.8	3969.8	3969.8	3969.8	3969.8
2.5°	4064.6	4022.2	4029.7	4014.7	4029.7	4024.7	4017.2	3979.8	4017.2	3979.8	3969.8
5°	4009.7	4009.7	4034.7	3997.3	4002.3	3977.3	4002.3	3974.8	3949.9	3887.5	3870.0
7.5°	3992.3	3989.8	3992.3	3939.9	3964.8	3949.9	3924.9	3895.0	3845.1	3805.1	3747.7
10°	3872.5	3897.5	3870.0	3885.0	3904.9	3860.0	3857.5	3850.0	3827.6	3775.2	3740.3
12.5°	3807.6	3850.0	3865.0	3852.5	3870.0	3875.0	3860.0	3850.0	3822.6	3787.7	3687.9
15°	3835.1	3785.2	3827.6	3909.9	3892.5	3904.9	3907.4	3897.5	3885.0	3820.1	3755.2
17.5°	3842.6	3812.6	3902.4	3919.9	3942.4	3987.3	3957.3	3954.8	3907.4	3862.5	3767.7
20°	3860.0	3847.6	3919.9	4012.2	4014.7	4022.2	4037.2	3999.8	3974.8	3897.5	3752.7
22.5°	3924.9	3967.3	4034.7	4074.6	4097.1	4102.1	4102.1	4027.2	3999.8	3937.4	3822.6
25°	4119.5	4074.6	4169.4	4216.8	4184.4	4176.9	4159.4	4092.1	4062.1	4007.2	3855.0
27.5°	4261.8	4259.3	4314.1	4379.0	4291.7	4309.2	4246.8	4226.8	4159.4	4129.5	3912.4
30°	4456.4	4511.3	4508.8	4528.7	4414.0	4433.9	4354.1	4316.6	4279.2	4296.7	4082.1
32.5°	4705.9	4685.9	4718.4	4703.4	4588.6	4606.1	4511.3	4453.9	4466.4	4518.8	4314.1
35°	4865.6	4845.6	4858.1	4858.1	4823.2	4803.2	4763.3	4688.4	4748.3	4845.6	4573.6
37.5°	5037.7	5062.7	5135.1	5120.1	5075.2	5075.2	5070.2	5017.8	5095.1	5334.7	4987.8
40°	5190.0	5257.3	5302.2	5332.2	5384.6	5384.6	5427.0	5397.1	5536.8	5921.0	5494.4
42.5°	5349.6	5352.1	5596.7	5619.1	5736.4	5786.3	5818.7	5843.7	6105.7	6534.9	6035.8
45°	5554.2	5566.7	5781.3	5953.5	6135.6	6153.1	6275.4	6357.7	6679.6	7206.1	6624.7
47.5°	5823.7	5808.8	6038.3	6312.8	6539.8	6659.6	6806.8	6896.7	7293.4	7934.6	7268.4
50°	6178.0	6133.1	6265.4	6697.0	6964.0	7096.3	7358.3	7508.0	7972.1	8630.8	7710.1
52.5°	6609.7	6534.9	6639.6	7111.2	7410.7	7677.6	7927.2	8094.3	8578.4	9169.7	8036.9
55°	7066.3	6911.6	6941.6	7550.4	7982.0	8234.1	8575.9	8750.6	9244.6	9653.8	8363.8
57.5°	7517.9	7420.6	7360.8	7972.1	8663.2	8905.3	9219.7	9446.7	9865.9	10083.0	8640.8
60°	7897.2	7872.3	7774.9	8625.8	9384.3	9591.4	9920.8	10060.5	10377.4	10479.7	8645.8
62.5°	8209.1	8124.3	8279.0	9152.3	10117.9	10352.5	10714.3	10726.7	10951.3	10726.7	8391.3
65°	8453.6	8458.6	8705.6	9788.6	10966.3	11313.1	11605.0	11572.6	11427.9	10579.5	7789.9
67.5°	8675.7	8770.5	9132.3	10487.2	12056.7	12383.5	12707.9	12278.7	11557.6	9890.9	6614.7
70°	8850.4	8945.2	9708.7	11338.1	13341.7	13820.7	13893.1	12558.2	10961.3	8378.8	4990.3
72.5°	8830.4	9002.6	10035.6	12016.7	14482.0	14896.2	14312.3	11772.2	9132.3	5841.2	2911.9
73°	8872.8	8957.7	10008.1	12206.4	14828.8	15035.9	14117.7	11525.2	8613.3	5239.9	2462.7
75°	8054.4	8341.4	9511.6	11897.0	14457.0	14419.6	12999.8	9603.9	6123.1	2752.2	1192.7
77.5°	5958.5	6140.6	7495.5	9783.6	11867.0	11627.5	9806.0	6138.1	2906.9	1020.5	643.8
80°	2911.9	3054.1	3972.3	5649.1	7760.0	7779.9	6085.7	3193.8	1245.1	576.4	439.1
82.5°	1454.7	1539.5	1908.8	2482.7	3817.6	3999.8	3086.5	1816.5	771.0	326.9	249.5
85°	950.7	1010.5	1175.2	1215.1	1619.4	1709.2	1437.2	1417.3	501.5	177.2	202.1
87.5°	631.3	641.3	721.1	613.8	648.7	623.8	693.7	893.3	147.2	74.9	54.9
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°	3969.8	3969.8	3969.8	3969.8	3969.8	3969.8	3969.8	3969.8	3969.8	3969.8	3969.8
2.5°	3957.3	3922.4	3885.0	3832.6	3795.2	3737.8	3685.4	3662.9	3657.9	3660.4	3635.5
5°	3855.0	3805.1	3730.3	3623.0	3560.6	3465.8	3385.9	3343.5	3298.6	3306.1	3286.1
7.5°	3712.8	3657.9	3543.1	3418.4	3263.7	3128.9	3054.1	2949.3	2889.4	2844.5	2869.4
10°	3667.9	3573.1	3400.9	3228.8	2989.2	2812.1	2639.9	2520.1	2437.8	2357.9	2392.9
12.5°	3645.4	3550.6	3311.1	3056.6	2747.2	2477.7	2235.7	2088.5	1971.2	1901.3	1928.8
15°	3625.5	3508.2	3226.3	2867.0	2520.1	2165.8	1893.8	1699.2	1586.9	1519.6	1527.0
17.5°	3652.9	3485.8	3101.5	2682.3	2270.6	1891.3	1589.4	1387.3	1272.5	1230.1	1220.1
20°	3625.5	3460.8	2979.2	2497.7	2021.1	1629.3	1339.9	1172.7	1092.9	1058.0	1050.5
22.5°	3635.5	3400.9	2852.0	2293.1	1789.0	1409.8	1172.7	1045.5	983.1	965.6	970.6
25°	3682.9	3366.0	2724.7	2068.5	1559.5	1247.6	1065.4	968.1	923.2	905.7	910.7
27.5°	3717.8	3395.9	2609.9	1856.4	1364.9	1102.9	975.6	910.7	880.8	868.3	865.8
30°	3805.1	3413.4	2497.7	1666.8	1205.2	1008.0	913.2	860.8	840.9	833.4	830.9
32.5°	3934.9	3445.8	2367.9	1492.1	1087.9	918.2	863.3	818.4	813.4	805.9	808.4
35°	4147.0	3558.1	2223.2	1342.4	975.6	858.3	810.9	781.0	781.0	781.0	788.5
37.5°	4451.4	3715.3	2093.4	1200.2	903.3	805.9	766.0	756.0	751.0	758.5	763.5
40°	4843.1	3904.9	1988.7	1087.9	840.9	771.0	736.1	731.1	728.6	726.1	731.1
42.5°	5272.3	4147.0	1898.8	1000.6	796.0	733.6	708.6	703.6	693.7	698.6	706.1
45°	5699.0	4446.4	1819.0	930.7	766.0	713.6	678.7	676.2	671.2	668.7	681.2
47.5°	6173.1	4740.8	1794.0	888.3	743.6	683.7	658.7	656.2	641.3	638.8	648.7
50°	6542.3	4957.9	1821.5	868.3	711.1	661.2	643.8	631.3	618.8	606.3	606.3
52.5°	6796.8	5107.6	1841.4	853.3	693.7	631.3	608.8	603.8	591.4	578.9	573.9
55°	7026.4	5197.4	1846.4	855.8	676.2	596.3	581.4	578.9	571.4	551.4	546.4
57.5°	7103.7	5160.0	1746.6	833.4	666.2	573.9	553.9	558.9	548.9	531.5	529.0
60°	7096.3	4900.5	1519.6	803.4	643.8	548.9	524.0	539.0	539.0	519.0	516.5
62.5°	6664.6	4301.7	1242.6	746.1	618.8	524.0	496.5	519.0	526.5	514.0	511.5
65°	5768.8	3503.2	1038.0	688.7	581.4	496.5	469.1	494.0	506.5	501.5	499.0
67.5°	4773.3	2679.8	863.3	613.8	534.0	459.1	436.7	454.1	461.6	464.1	466.6
70°	3373.5	1784.0	721.1	531.5	469.1	419.2	394.2	396.7	394.2	401.7	401.7
72.5°	1833.9	1028.0	586.4	451.6	404.2	364.3	346.8	334.4	334.4	331.9	331.9
73°	1569.5	923.2	558.9	439.1	386.8	354.3	334.4	324.4	324.4	321.9	319.4
75°	880.8	676.2	479.1	376.8	334.4	309.4	294.4	279.5	277.0	277.0	277.0
77.5°	578.9	526.5	381.8	301.9	269.5	247.0	242.0	227.1	227.1	227.1	224.6
80°	434.2	414.2	294.4	229.6	207.1	189.6	184.6	174.7	172.2	162.2	164.7
82.5°	289.4	326.9	214.6	162.2	139.7	129.7	129.7	127.3	119.8	107.3	107.3
85°	229.6	267.0	154.7	99.8	82.3	69.9	72.4	69.9	67.4	54.9	52.4
87.5°	42.4	107.3	44.9	27.4	20.0	12.5	12.5	7.5	5.0	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)