

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: P478300

Luminaire Tested: **IFLD-L-SA7C-827-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478300
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-827-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

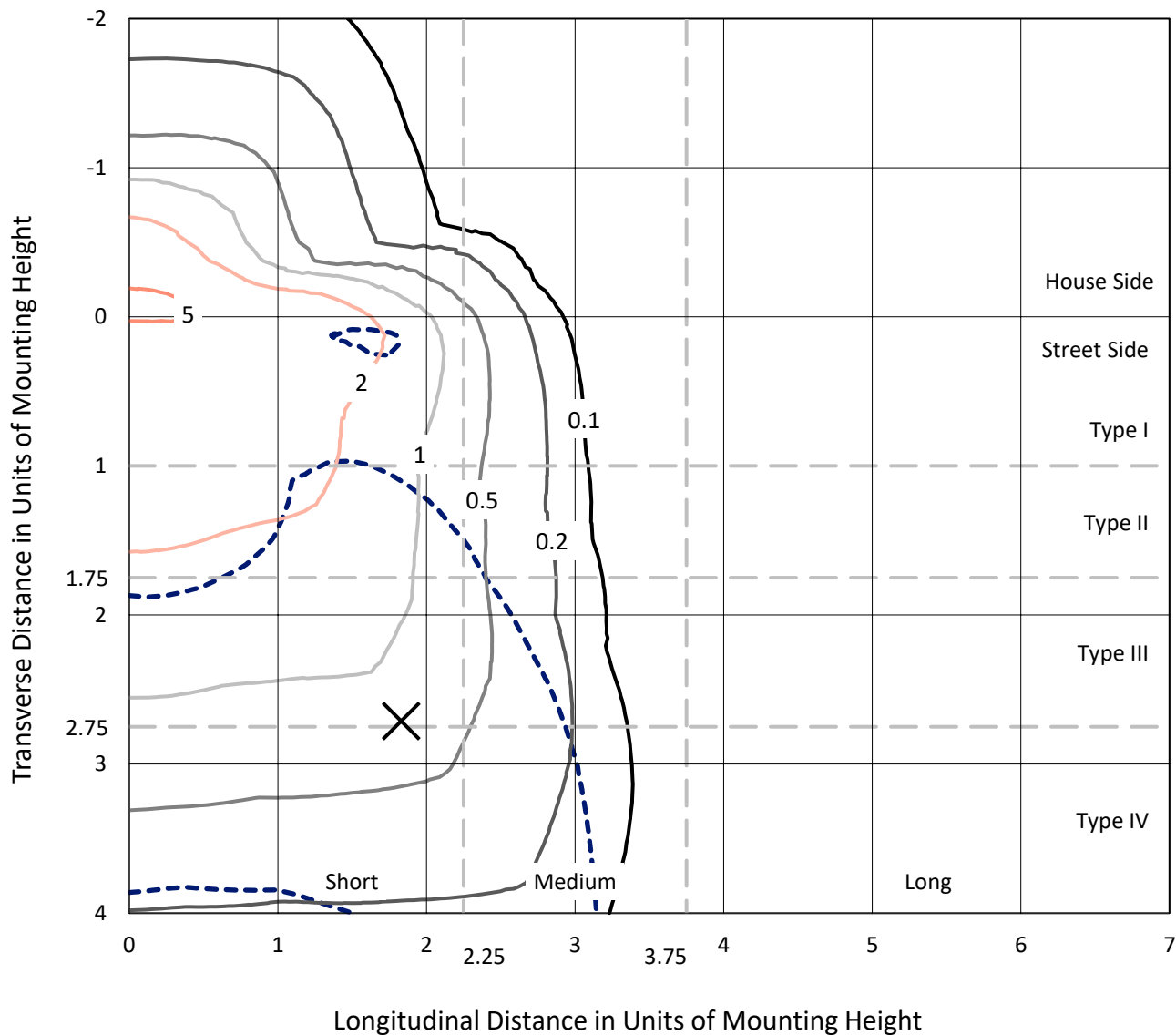
Lumens per Lamp: N/A
Luminaire Lumens: 33385.7 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 369
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

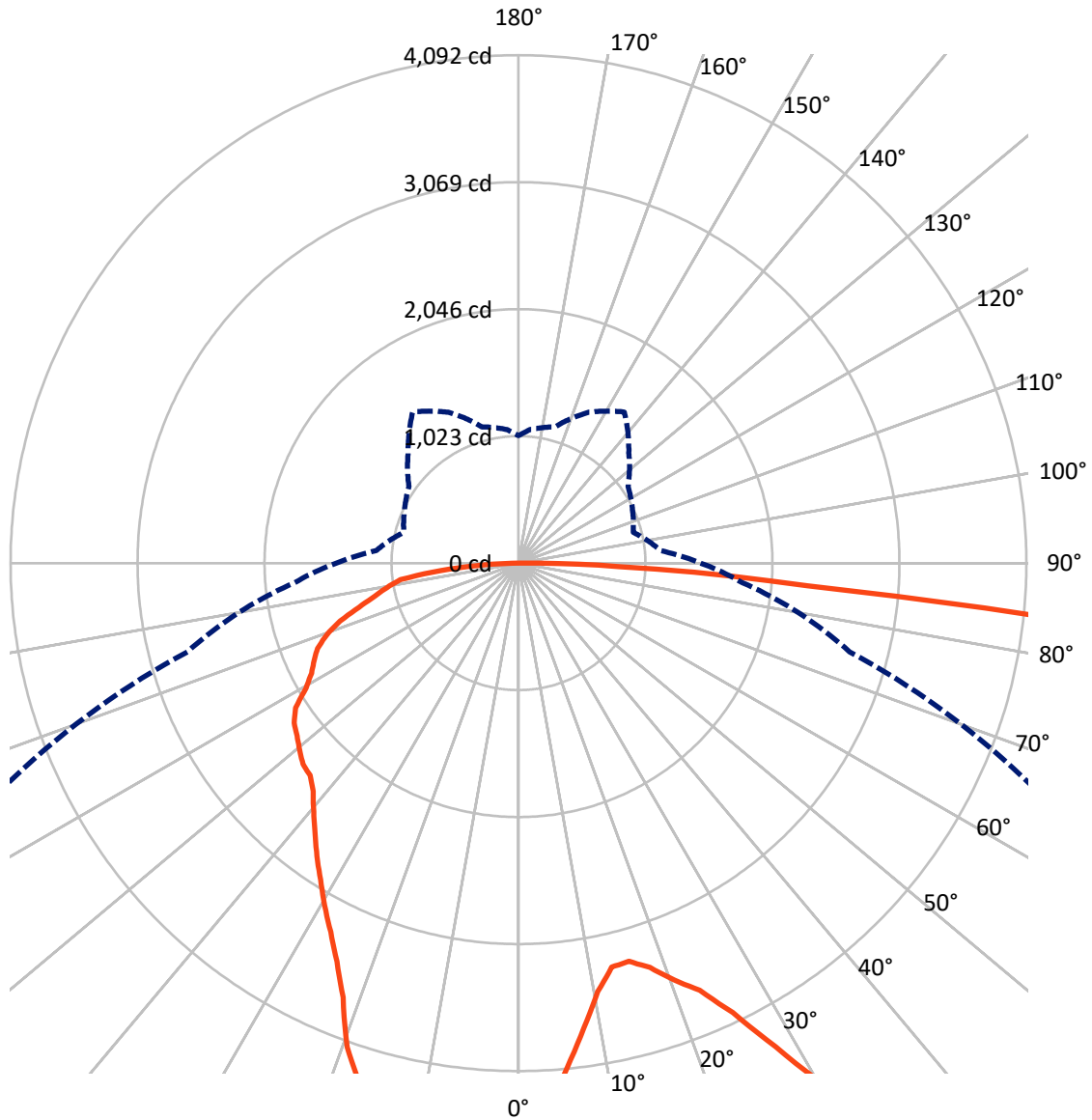
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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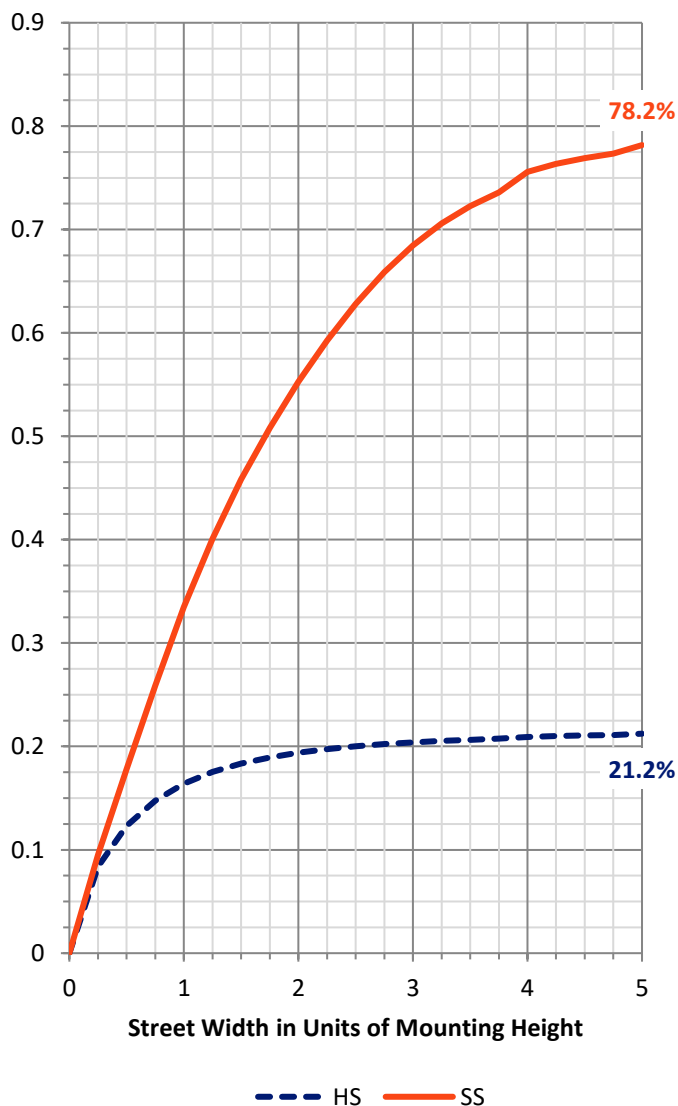
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7211.7	0.0	7211.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	26174.0	0.0	26174.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	33385.7	0.0	33385.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.8	1.3
10°-20°	1236.3	3.7
20°-30°	2034.8	6.1
30°-40°	3043.0	9.1
40°-50°	4511.1	13.5
50°-60°	6500.9	19.5
60°-70°	8296.1	24.8
70°-80°	6455.7	19.3
80°-90°	866.1	2.6
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°	33385.7	100.0
0°-180°	33385.7	100.0

Coefficient of Utilization



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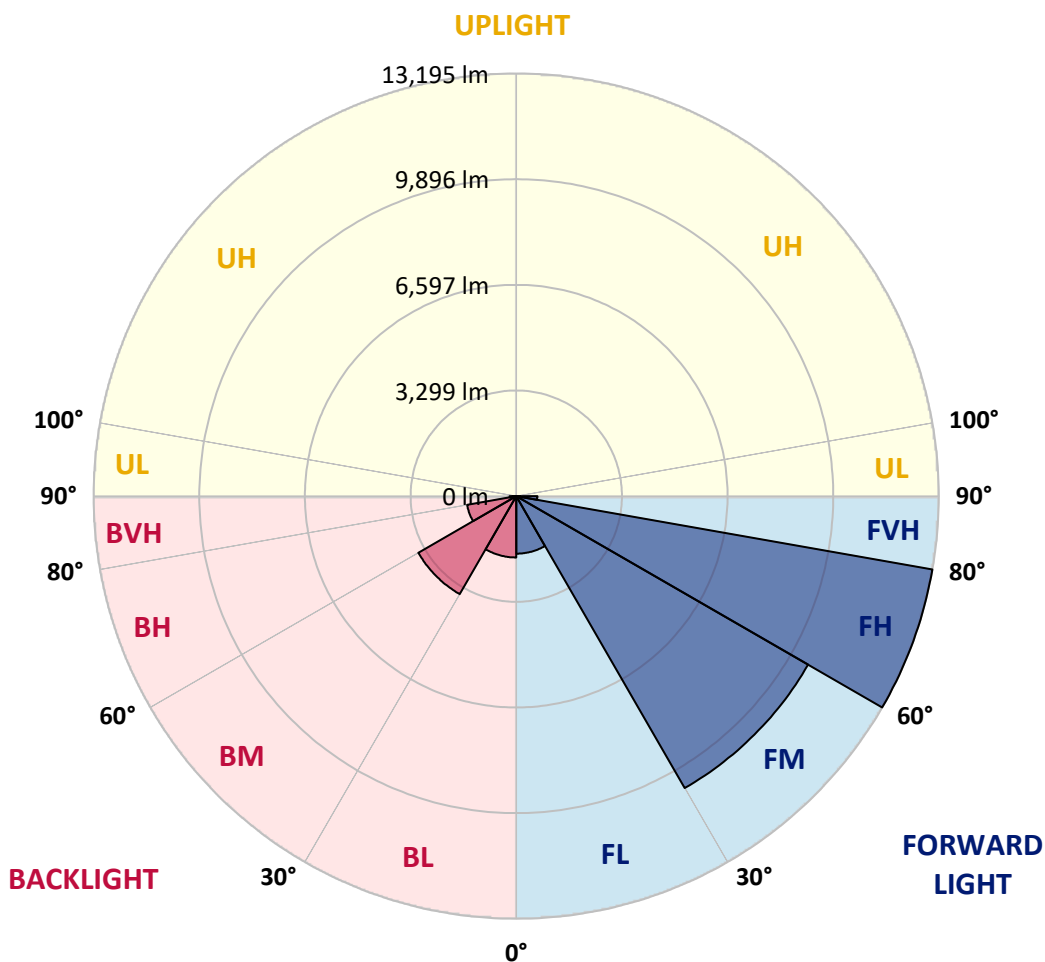
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1796.7	5.4			
FM (30°-60°)	10523.4	31.5			
FH (60°-80°)	13194.6	39.5			G5
FVH (80°-90°)	659.2	2.0			G4/750
BL (0°-30°)	1916.1	5.7	B3/2500		
BM (30°-60°)	3531.6	10.6	B3/5000		
BH (60°-80°)	1557.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	206.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4786.4	4786.4	4786.4	4786.4	4786.4	4786.4	4786.4	4786.4	4786.4	4786.4	4786.4
2.5°	4288.7	4302.8	4348.7	4359.3	4408.7	4380.4	4440.5	4546.3	4606.4	4694.6	4800.5
5°	3949.8	3889.8	3918.0	4027.5	4083.9	4098.1	4161.6	4341.6	4454.6	4585.2	4782.8
7.5°	3550.9	3540.4	3596.8	3667.4	3780.4	3791.0	3932.2	4091.0	4324.0	4613.4	4846.4
10°	3279.2	3325.0	3356.8	3430.9	3508.6	3508.6	3688.6	3963.9	4228.7	4507.5	4860.5
12.5°	3265.0	3236.8	3243.9	3282.7	3339.2	3409.8	3579.2	3826.3	4161.6	4486.3	4920.5
15°	3310.9	3321.5	3258.0	3307.4	3328.6	3353.3	3540.4	3819.2	4119.2	4560.5	5022.9
17.5°	3554.5	3494.5	3395.6	3349.8	3423.9	3423.9	3550.9	3769.8	4126.3	4599.3	5171.1
20°	3745.1	3745.1	3582.7	3533.3	3586.2	3575.7	3663.9	3826.3	4161.6	4676.9	5337.0
22.5°	4066.3	4112.2	3843.9	3741.6	3738.0	3766.3	3843.9	3981.6	4260.4	4786.4	5495.9
25°	4528.7	4539.3	4228.7	4122.8	4009.8	4055.7	4069.8	4207.5	4348.7	4913.4	5675.9
27.5°	5044.0	5037.0	4751.1	4486.3	4412.2	4422.8	4345.1	4436.9	4479.3	4952.3	5933.5
30°	5615.9	5552.3	5337.0	4962.9	4902.9	4835.8	4666.4	4662.8	4751.1	5171.1	6290.1
32.5°	5990.0	5908.8	5760.6	5492.3	5326.4	5333.5	5065.2	5061.7	4984.0	5411.1	6600.7
35°	6357.1	6233.6	6194.7	5919.4	5753.5	5771.2	5555.9	5527.6	5386.4	5774.7	7112.5
37.5°	6798.3	6688.9	6748.9	6540.7	6335.9	6251.2	6152.4	6117.1	5933.5	6286.5	7811.4
40°	7285.4	7250.1	7211.3	7109.0	6985.4	6992.5	6886.6	6851.3	6579.5	6904.2	8482.0
42.5°	7942.0	7807.9	7606.7	7673.7	7737.3	7804.3	7769.0	7677.3	7394.9	7532.5	9230.3
45°	8552.6	8376.1	8005.5	8026.7	8287.9	8340.8	8767.9	8757.4	8189.1	8330.3	10081.0
47.5°	8965.6	8884.4	8662.1	8637.3	9011.5	9008.0	9777.5	9777.5	9025.6	9124.5	10995.2
50°	9579.8	9368.0	9272.7	9396.2	9586.9	9717.5	10808.2	10875.2	9848.1	9954.0	12191.8
52.5°	10299.9	10035.1	9795.1	10112.8	10451.6	10536.4	11828.3	11800.0	10479.9	10917.6	13593.1
55°	10896.4	10762.3	10596.4	10779.9	11334.1	11440.0	12851.9	12590.7	11111.7	11715.3	14267.3
57.5°	11591.8	11673.0	11708.2	11662.4	12322.4	12488.3	14020.2	13271.9	11655.3	12251.8	14662.7
60°	12640.1	12689.5	12735.4	12844.8	13543.7	13776.7	14945.0	14126.1	11997.7	12562.5	14694.4
62.5°	14235.6	14045.0	14147.3	14525.0	15086.2	15351.0	16307.5	14726.2	12258.9	12749.5	13656.7
65°	16060.5	15802.8	15696.9	16184.0	17638.3	17426.5	18008.9	15174.5	11881.2	12050.6	11581.2
67.5°	17910.1	17938.3	17666.5	18644.2	20426.8	20426.8	19590.2	15389.8	10857.6	9766.9	8122.0
70°	19378.4	19466.7	19614.9	21510.4	24334.2	24761.3	21549.2	14507.4	8771.5	6501.8	4440.5
72.5°	19357.3	19092.5	19851.4	23342.4	27885.2	27528.7	21958.7	11471.8	5474.7	3183.9	2036.7
73°	18923.1	18700.7	19530.2	23324.7	28029.9	27694.6	21658.7	10575.2	4828.7	2760.3	1810.8
75°	15453.3	15050.9	16462.8	21125.7	25933.2	26190.9	18400.7	6897.2	2647.3	1701.3	1274.2
77.5°	7045.4	7221.9	9060.9	14172.0	19985.6	20289.1	12096.5	2982.7	1450.7	1193.1	938.9
80°	2262.6	2375.5	3526.2	7045.4	12527.2	13074.3	5591.2	1355.4	1034.2	914.2	702.4
82.5°	864.8	861.3	1479.0	2929.7	5937.1	6286.5	2043.7	826.0	769.5	674.2	497.7
85°	303.6	317.7	557.7	1157.8	2336.7	2446.1	709.5	458.9	533.0	451.8	285.9
87.5°	105.9	109.4	197.7	420.0	804.8	850.7	197.7	183.5	264.7	261.2	144.7
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°	4786.4	4786.4	4786.4	4786.4	4786.4	4786.4	4786.4	4786.4	4786.4	4786.4	4786.4
2.5°	4835.8	4867.6	4878.1	5005.2	5005.2	5005.2	5054.6	5054.6	5040.5	5005.2	5089.9
5°	4857.0	4913.4	5022.9	5132.3	5160.5	5185.2	5252.3	5195.8	5217.0	5181.7	5213.5
7.5°	4917.0	4994.6	5199.4	5266.4	5220.5	5273.5	5202.9	5164.1	5125.2	5139.3	5089.9
10°	5019.3	5118.2	5213.5	5337.0	5248.8	5195.8	5051.1	5015.8	4892.3	4849.9	4888.7
12.5°	5146.4	5266.4	5428.8	5382.9	5213.5	5061.7	4906.4	4758.1	4684.0	4578.1	4606.4
15°	5273.5	5411.1	5435.8	5358.2	5146.4	4955.8	4673.4	4465.2	4391.0	4295.7	4345.1
17.5°	5411.1	5541.7	5499.4	5298.2	5012.3	4722.8	4401.6	4196.9	4041.6	3981.6	3981.6
20°	5615.9	5679.4	5612.3	5199.4	4849.9	4468.7	4158.1	3925.1	3769.8	3745.1	3706.3
22.5°	5774.7	5877.1	5577.0	5054.6	4613.4	4136.9	3780.4	3692.1	3646.3	3607.4	3558.0
25°	5979.4	5975.9	5513.5	4920.5	4207.5	3741.6	3526.2	3519.2	3498.0	3483.9	3550.9
27.5°	6173.6	6092.4	5439.4	4588.7	3787.4	3441.5	3325.0	3402.7	3434.5	3413.3	3441.5
30°	6480.7	6346.5	5333.5	4235.7	3416.8	3138.0	3159.1	3265.0	3318.0	3349.8	3307.4
32.5°	6805.4	6600.7	5114.6	3868.6	3088.5	2947.4	2996.8	3106.2	3169.7	3205.0	3243.9
35°	7274.9	6798.3	4892.3	3388.6	2852.1	2830.9	2859.1	2919.1	3010.9	3035.6	3046.2
37.5°	7853.7	7098.4	4592.2	3003.8	2668.5	2693.2	2721.5	2742.6	2746.2	2792.0	2774.4
40°	8432.6	7352.5	4154.5	2636.7	2477.9	2612.0	2597.9	2559.1	2527.3	2485.0	2474.4
42.5°	8940.9	7574.9	3667.4	2326.1	2308.5	2527.3	2481.4	2382.6	2308.5	2276.7	2223.8
45°	9512.7	7889.0	3176.8	2132.0	2177.9	2425.0	2410.8	2259.1	2163.7	2050.8	2036.7
47.5°	10254.0	8217.3	2707.3	1930.8	2054.3	2386.1	2393.2	2199.0	2061.4	1909.6	1888.4
50°	11203.5	8690.3	2350.8	1846.1	1980.2	2329.6	2340.2	2117.9	1937.8	1782.5	1768.4
52.5°	12114.2	9173.9	2054.3	1715.5	1930.8	2262.6	2287.3	2043.7	1835.5	1641.3	1651.9
55°	12573.0	8997.4	1800.2	1620.2	1817.8	2153.2	2244.9	1990.8	1680.2	1546.0	1542.5
57.5°	12675.4	8563.2	1599.0	1521.3	1722.5	2036.7	2174.3	1832.0	1609.6	1496.6	1482.5
60°	12340.1	7804.3	1440.1	1415.4	1602.5	1916.7	2012.0	1747.2	1539.0	1447.2	1426.0
62.5°	11514.1	7017.2	1330.7	1366.0	1500.2	1786.1	1909.6	1687.2	1471.9	1408.4	1362.5
65°	9442.1	5771.2	1242.5	1270.7	1394.3	1659.0	1846.1	1620.2	1411.9	1351.9	1348.4
67.5°	6540.7	3978.1	1171.9	1224.8	1309.5	1567.2	1782.5	1546.0	1334.3	1313.1	1284.8
70°	3349.8	2121.4	1080.1	1122.5	1217.8	1450.7	1669.6	1468.4	1253.1	1249.5	1214.2
72.5°	1697.8	1242.5	974.2	1037.8	1104.8	1299.0	1528.4	1366.0	1150.7	1111.9	1055.4
73°	1468.4	1150.7	956.6	1013.0	1076.6	1256.6	1486.0	1341.3	1136.6	1080.1	1027.2
75°	1069.5	907.2	857.7	914.2	963.6	1133.1	1344.8	1228.4	1044.8	984.8	935.4
77.5°	801.3	698.9	713.0	776.5	818.9	977.7	1196.6	1111.9	946.0	864.8	843.6
80°	589.5	533.0	589.5	649.5	681.2	861.3	1090.7	963.6	797.7	706.0	688.3
82.5°	420.0	388.3	455.3	494.2	508.3	713.0	981.3	769.5	603.6	483.6	444.8
85°	240.0	236.5	307.1	303.6	314.1	416.5	645.9	511.8	388.3	296.5	289.4
87.5°	105.9	116.5	155.3	123.5	130.6	197.7	275.3	190.6	158.8	88.2	67.1
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)