

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: P478301

Luminaire Tested: **IFLD-L-SA7D-827-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478301
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-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

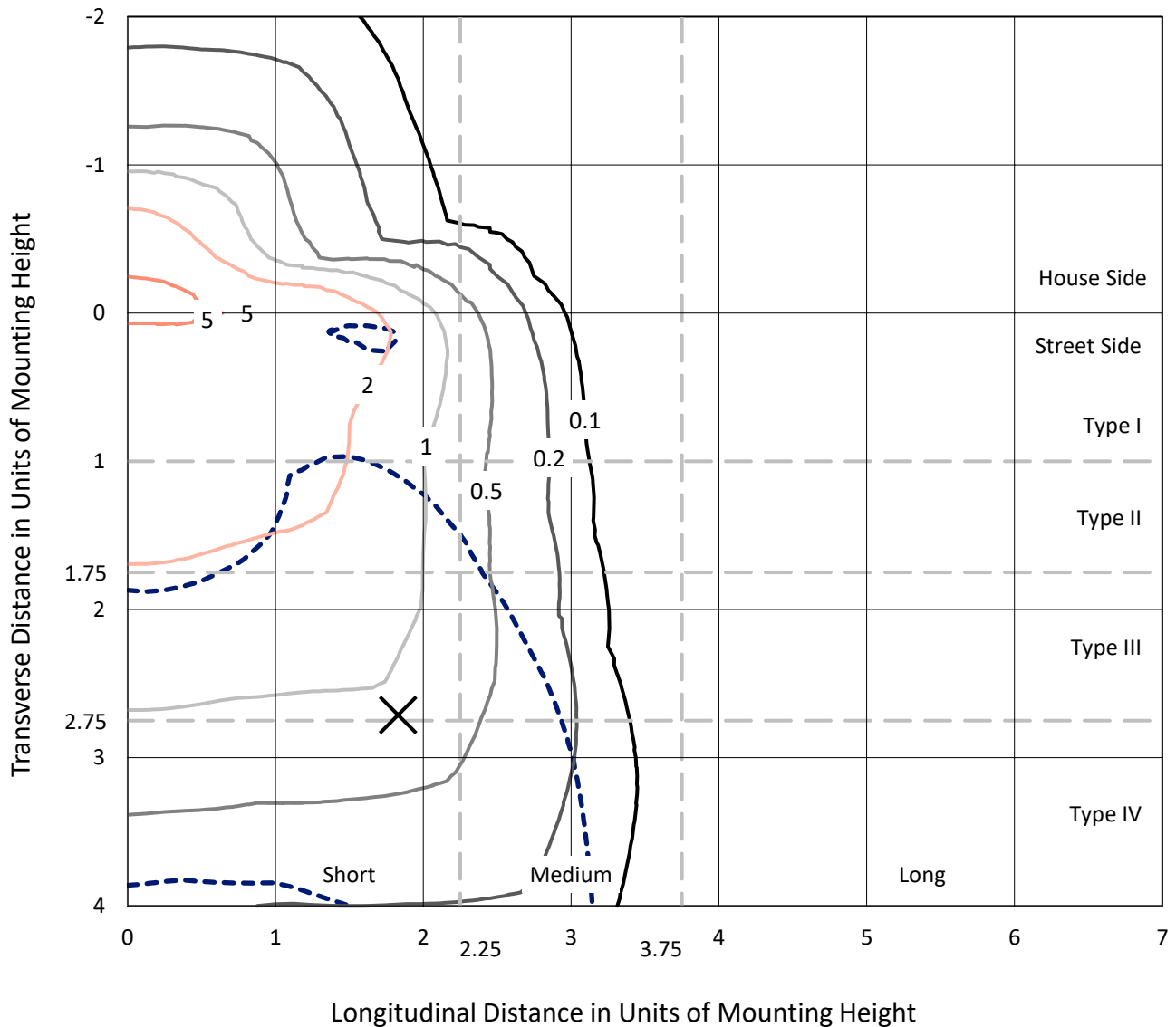
Lumens per Lamp: N/A
Luminaire Lumens: 36735.7 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6
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

REPORT NUMBER: P478301
 CATALOG NUMBER: IFLD-L-SA7D-827-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

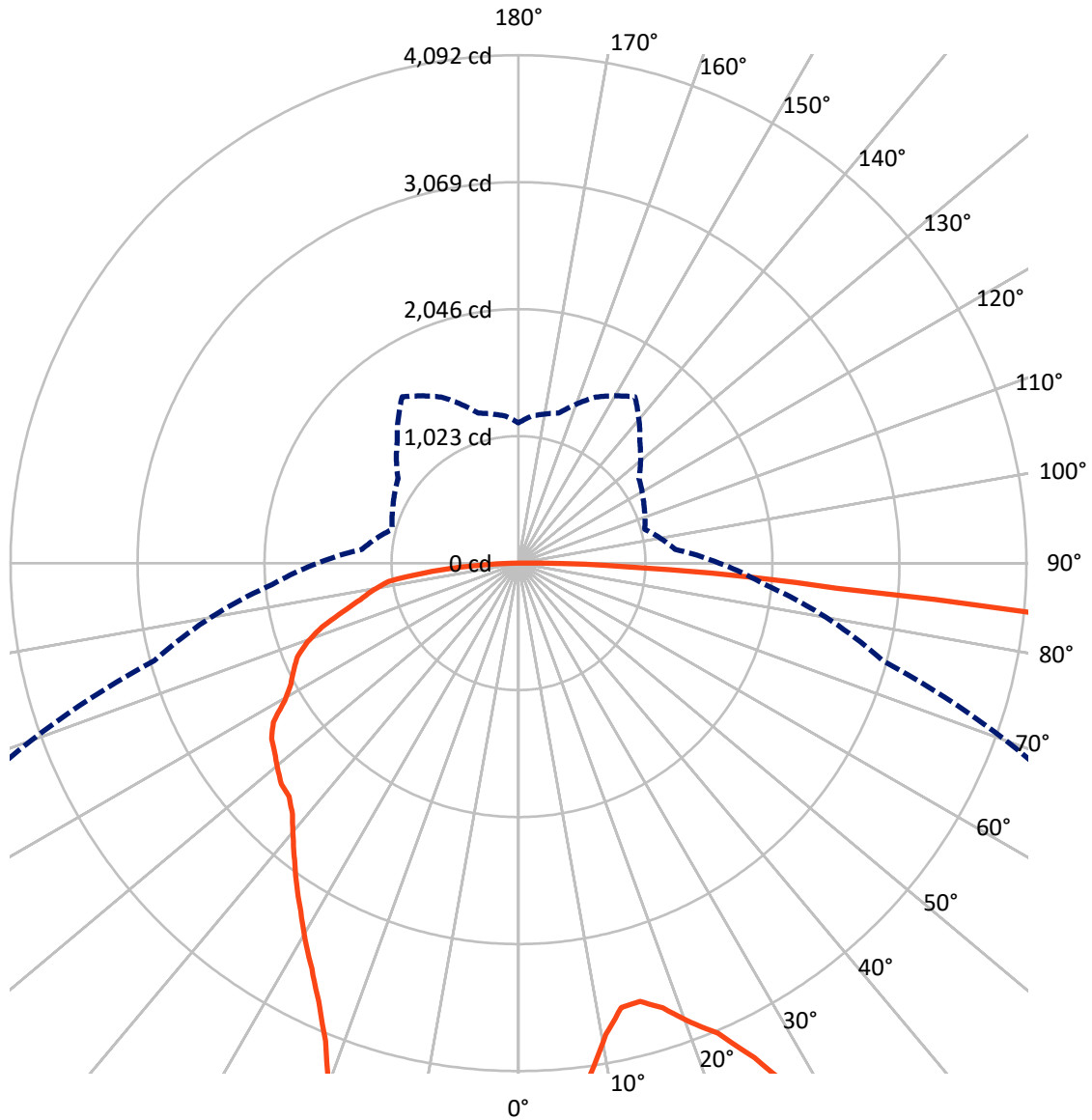
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P478301
CATALOG NUMBER: IFLD-L-SA7D-827-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478301
 CATALOG NUMBER: IFLD-L-SA7D-827-U-T4FT

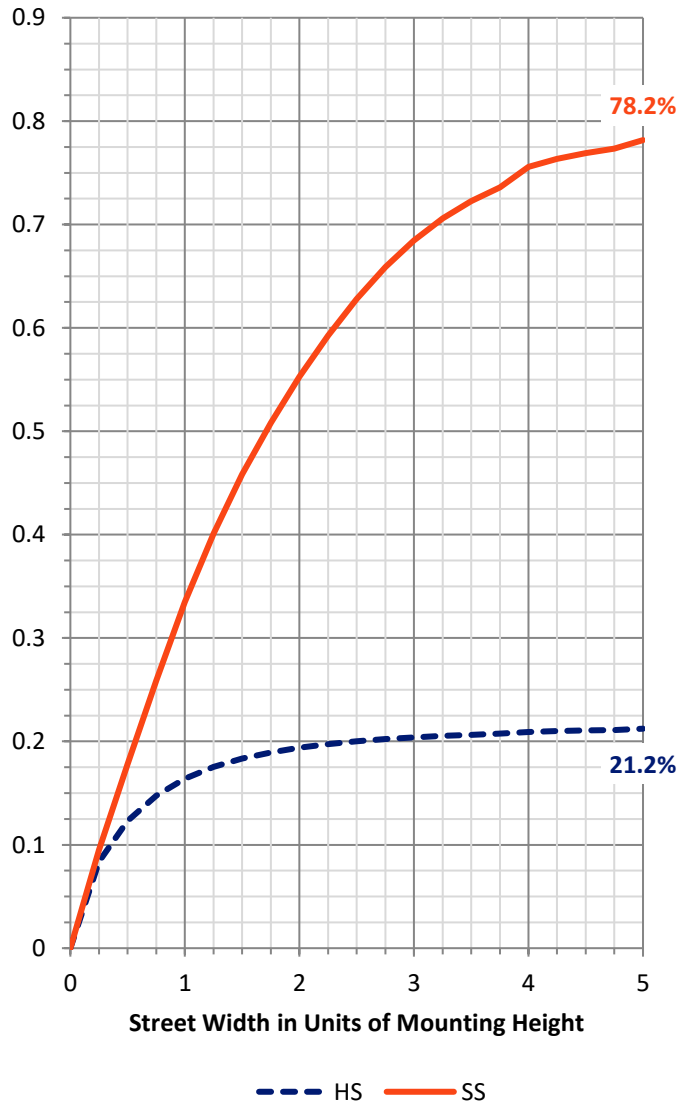
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7935.4	0.0	7935.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	28800.3	0.0	28800.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	36735.7	0.0	36735.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.1	1.3
10°-20°	1360.4	3.7
20°-30°	2238.9	6.1
30°-40°	3348.3	9.1
40°-50°	4963.7	13.5
50°-60°	7153.3	19.5
60°-70°	9128.5	24.8
70°-80°	7103.5	19.3
80°-90°	953.0	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°	36735.7	100.0
0°-180°	36735.7	100.0

Coefficient of Utilization



REPORT NUMBER: P478301

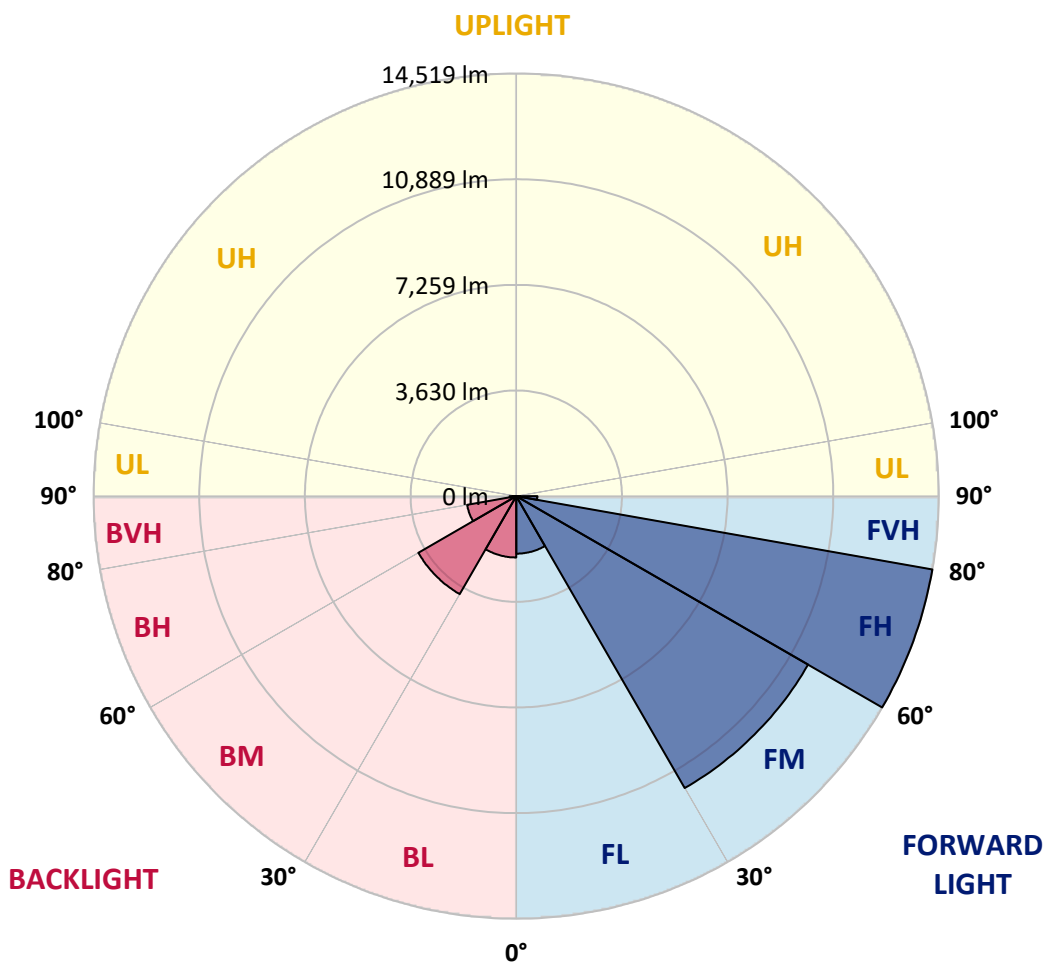
CATALOG NUMBER: IFLD-L-SA7D-827-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1977.0	5.4			
FM (30°-60°)	11579.3	31.5			
FH (60°-80°)	14518.6	39.5			G5
FVH (80°-90°)	725.4	2.0			G4/750
BL (0°-30°)	2108.4	5.7	B3/2500		
BM (30°-60°)	3886.0	10.6	B3/5000		
BH (60°-80°)	1713.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	227.6	0.6			G3/500
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





REPORT NUMBER: P478301
 CATALOG NUMBER: IFLD-L-SA7D-827-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5266.6	5266.6	5266.6	5266.6	5266.6	5266.6	5266.6	5266.6	5266.6	5266.6	5266.6
2.5°	4719.0	4734.5	4785.0	4796.7	4851.1	4820.0	4886.0	5002.5	5068.6	5165.7	5282.2
5°	4346.1	4280.1	4311.2	4431.6	4493.7	4509.3	4579.2	4777.3	4901.5	5045.3	5262.8
7.5°	3907.3	3895.6	3957.7	4035.4	4159.7	4171.4	4326.7	4501.5	4757.8	5076.3	5332.7
10°	3608.2	3658.7	3693.6	3775.2	3860.6	3860.6	4058.7	4361.7	4653.0	4959.8	5348.2
12.5°	3592.7	3561.6	3569.4	3612.1	3674.2	3751.9	3938.3	4210.2	4579.2	4936.5	5414.2
15°	3643.1	3654.8	3584.9	3639.3	3662.6	3689.8	3895.6	4202.4	4532.6	5018.1	5526.9
17.5°	3911.1	3845.1	3736.4	3685.9	3767.4	3767.4	3907.3	4148.1	4540.3	5060.8	5690.0
20°	4120.9	4120.9	3942.2	3887.8	3946.1	3934.4	4031.5	4210.2	4579.2	5146.2	5872.5
22.5°	4474.3	4524.8	4229.6	4117.0	4113.1	4144.2	4229.6	4381.1	4687.9	5266.6	6047.3
25°	4983.1	4994.8	4653.0	4536.5	4412.2	4462.7	4478.2	4629.7	4785.0	5406.5	6245.4
27.5°	5550.2	5542.4	5227.8	4936.5	4854.9	4866.6	4781.1	4882.1	4928.7	5449.2	6528.9
30°	6179.4	6109.5	5872.5	5460.8	5394.8	5321.0	5134.6	5130.7	5227.8	5690.0	6921.2
32.5°	6591.1	6501.7	6338.6	6043.4	5860.9	5868.7	5573.5	5569.6	5484.1	5954.1	7263.0
35°	6995.0	6859.1	6816.3	6513.4	6330.8	6350.3	6113.3	6082.3	5926.9	6354.1	7826.2
37.5°	7480.5	7360.1	7426.1	7197.0	6971.7	6878.5	6769.7	6730.9	6528.9	6917.3	8595.2
40°	8016.5	7977.6	7934.9	7822.3	7686.3	7694.1	7577.6	7538.8	7239.7	7597.0	9333.1
42.5°	8738.9	8591.3	8369.9	8443.7	8513.6	8587.4	8548.6	8447.6	8136.9	8288.4	10156.5
45°	9410.8	9216.6	8808.8	8832.1	9119.5	9177.8	9647.7	9636.1	9010.8	9166.1	11092.6
47.5°	9865.2	9775.9	9531.2	9504.0	9915.7	9911.8	10758.5	10758.5	9931.3	10040.0	12098.5
50°	10541.0	10308.0	10203.1	10339.1	10548.8	10692.5	11892.7	11966.5	10836.2	10952.7	13415.2
52.5°	11333.4	11042.1	10778.0	11127.5	11500.4	11593.6	13015.1	12984.1	11531.5	12013.1	14957.1
55°	11989.8	11842.2	11659.6	11861.6	12471.4	12587.9	14141.5	13854.1	12226.7	12890.8	15698.9
57.5°	12754.9	12844.2	12883.1	12832.6	13558.9	13741.4	15427.1	14603.7	12824.8	13481.2	16133.9
60°	13908.4	13962.8	14013.3	14133.7	14902.7	15159.1	16444.7	15543.6	13201.6	13823.0	16168.9
62.5°	15664.0	15454.2	15566.9	15982.5	16600.0	16891.3	17943.9	16203.8	13489.0	14028.8	15027.0
65°	17672.0	17388.5	17271.9	17807.9	19408.1	19175.1	19815.9	16697.1	13073.4	13259.8	12743.2
67.5°	19707.2	19738.2	19439.2	20515.0	22476.4	22476.4	21555.9	16934.0	11947.0	10746.9	8937.0
70°	21322.9	21420.0	21583.1	23668.8	26776.0	27245.9	23711.5	15963.0	9651.6	7154.2	4886.0
72.5°	21299.6	21008.3	21843.3	25684.6	30683.2	30290.9	24162.1	12622.8	6024.0	3503.3	2241.0
73°	20821.9	20577.2	21489.9	25665.2	30842.5	30473.5	23831.9	11636.3	5313.2	3037.3	1992.5
75°	17003.9	16561.2	18114.8	23245.5	28535.4	28818.9	20247.0	7589.2	2913.0	1872.1	1402.1
77.5°	7752.4	7946.6	9970.1	15594.1	21990.9	22325.0	13310.3	3281.9	1596.3	1312.8	1033.1
80°	2489.6	2613.9	3880.1	7752.4	13784.1	14386.2	6152.2	1491.4	1138.0	1005.9	772.9
82.5°	951.6	947.7	1627.4	3223.7	6532.8	6917.3	2248.8	908.8	846.7	741.8	547.6
85°	334.0	349.6	613.7	1273.9	2571.2	2691.6	780.7	504.9	586.5	497.1	314.6
87.5°	116.5	120.4	217.5	462.2	885.5	936.0	217.5	202.0	291.3	287.4	159.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478301
 CATALOG NUMBER: IFLD-L-SA7D-827-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5266.6	5266.6	5266.6	5266.6	5266.6	5266.6	5266.6	5266.6	5266.6	5266.6	5266.6
2.5°	5321.0	5356.0	5367.6	5507.4	5507.4	5507.4	5561.8	5561.8	5546.3	5507.4	5600.7
5°	5344.3	5406.5	5526.9	5647.3	5678.3	5705.5	5779.3	5717.2	5740.5	5701.6	5736.6
7.5°	5410.3	5495.8	5721.1	5794.9	5744.4	5802.6	5724.9	5682.2	5639.5	5655.0	5600.7
10°	5523.0	5631.7	5736.6	5872.5	5775.4	5717.2	5557.9	5519.1	5383.2	5336.5	5379.3
12.5°	5662.8	5794.9	5973.5	5923.0	5736.6	5569.6	5398.7	5235.6	5154.0	5037.5	5068.6
15°	5802.6	5954.1	5981.3	5895.8	5662.8	5453.1	5142.4	4913.2	4831.6	4726.8	4781.1
17.5°	5954.1	6097.8	6051.2	5829.8	5515.2	5196.7	4843.3	4618.0	4447.1	4381.1	4381.1
20°	6179.4	6249.3	6175.5	5721.1	5336.5	4917.1	4575.3	4319.0	4148.1	4120.9	4078.1
22.5°	6354.1	6466.8	6136.6	5561.8	5076.3	4552.0	4159.7	4062.6	4012.1	3969.4	3915.0
25°	6579.4	6575.5	6066.7	5414.2	4629.7	4117.0	3880.1	3872.3	3849.0	3833.5	3907.3
27.5°	6793.0	6703.7	5985.2	5049.1	4167.5	3786.9	3658.7	3744.1	3779.1	3755.8	3786.9
30°	7130.9	6983.3	5868.7	4660.7	3759.7	3452.8	3476.1	3592.7	3650.9	3685.9	3639.3
32.5°	7488.3	7263.0	5627.8	4256.8	3398.5	3243.1	3297.5	3417.9	3487.8	3526.6	3569.4
35°	8004.8	7480.5	5383.2	3728.6	3138.2	3114.9	3146.0	3212.0	3313.0	3340.2	3351.9
37.5°	8641.8	7810.6	5053.0	3305.2	2936.3	2963.5	2994.5	3017.8	3021.7	3072.2	3052.8
40°	9278.8	8090.3	4571.4	2901.3	2726.5	2874.1	2858.6	2815.9	2780.9	2734.3	2722.7
42.5°	9838.1	8335.0	4035.4	2559.5	2540.1	2780.9	2730.4	2621.7	2540.1	2505.1	2446.9
45°	10467.3	8680.6	3495.6	2345.9	2396.4	2668.3	2652.7	2485.7	2380.9	2256.6	2241.0
47.5°	11282.9	9041.8	2979.0	2124.5	2260.5	2625.6	2633.3	2419.7	2268.2	2101.2	2077.9
50°	12327.7	9562.3	2586.7	2031.3	2178.9	2563.4	2575.1	2330.4	2132.3	1961.4	1945.9
52.5°	13329.7	10094.4	2260.5	1887.6	2124.5	2489.6	2516.8	2248.8	2019.7	1806.0	1817.7
55°	13834.6	9900.2	1980.8	1782.7	2000.2	2369.2	2470.2	2190.5	1848.8	1701.2	1697.3
57.5°	13947.3	9422.5	1759.4	1674.0	1895.4	2241.0	2392.5	2015.8	1771.1	1646.8	1631.3
60°	13578.3	8587.4	1584.7	1557.5	1763.3	2109.0	2213.9	1922.6	1693.4	1592.4	1569.1
62.5°	12669.5	7721.3	1464.2	1503.1	1650.7	1965.3	2101.2	1856.5	1619.6	1549.7	1499.2
65°	10389.6	6350.3	1367.2	1398.2	1534.2	1825.5	2031.3	1782.7	1553.6	1487.6	1483.7
67.5°	7197.0	4377.2	1289.5	1347.7	1440.9	1724.5	1961.4	1701.2	1468.1	1444.8	1413.8
70°	3685.9	2334.3	1188.5	1235.1	1340.0	1596.3	1837.1	1615.7	1378.8	1374.9	1336.1
72.5°	1868.2	1367.2	1072.0	1141.9	1215.7	1429.3	1681.8	1503.1	1266.2	1223.4	1161.3
73°	1615.7	1266.2	1052.6	1114.7	1184.6	1382.7	1635.1	1475.9	1250.6	1188.5	1130.2
75°	1176.8	998.2	943.8	1005.9	1060.3	1246.7	1479.8	1351.6	1149.6	1083.6	1029.2
77.5°	881.7	769.0	784.6	854.5	901.1	1075.9	1316.7	1223.4	1040.9	951.6	928.3
80°	648.6	586.5	648.6	714.6	749.6	947.7	1200.1	1060.3	877.8	776.8	757.4
82.5°	462.2	427.2	501.0	543.8	559.3	784.6	1079.7	846.7	664.2	532.1	489.4
85°	264.1	260.2	337.9	334.0	345.7	458.3	710.8	563.2	427.2	326.3	318.5
87.5°	116.5	128.2	170.9	135.9	143.7	217.5	302.9	209.7	174.8	97.1	73.8
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)