

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: P478070

Luminaire Tested: **IFLD-L-SA8B-727-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478070
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-727-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

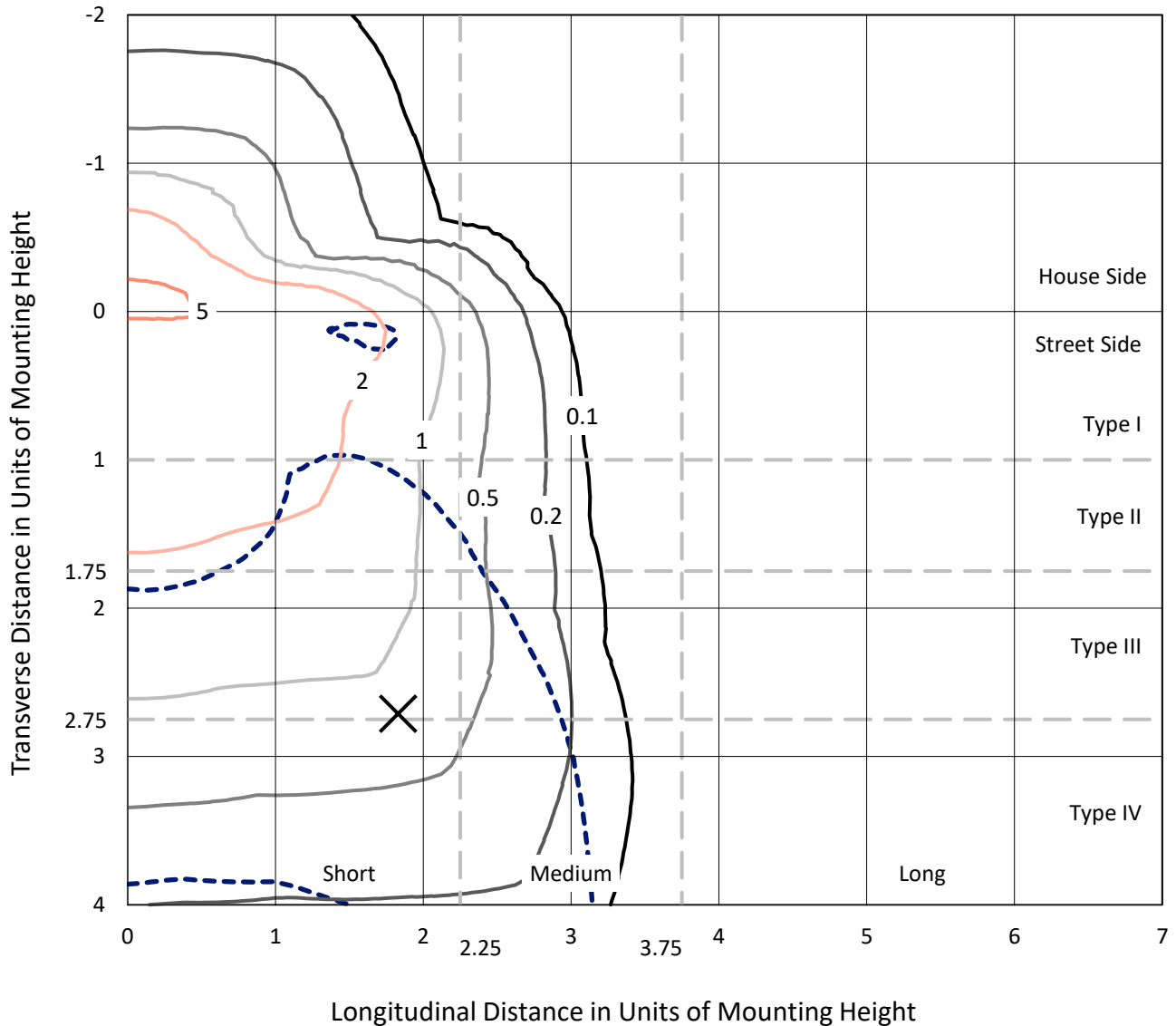
Lumens per Lamp: N/A
Luminaire Lumens: 34869.9 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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: P478070
 CATALOG NUMBER: IFLD-L-SA8B-727-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

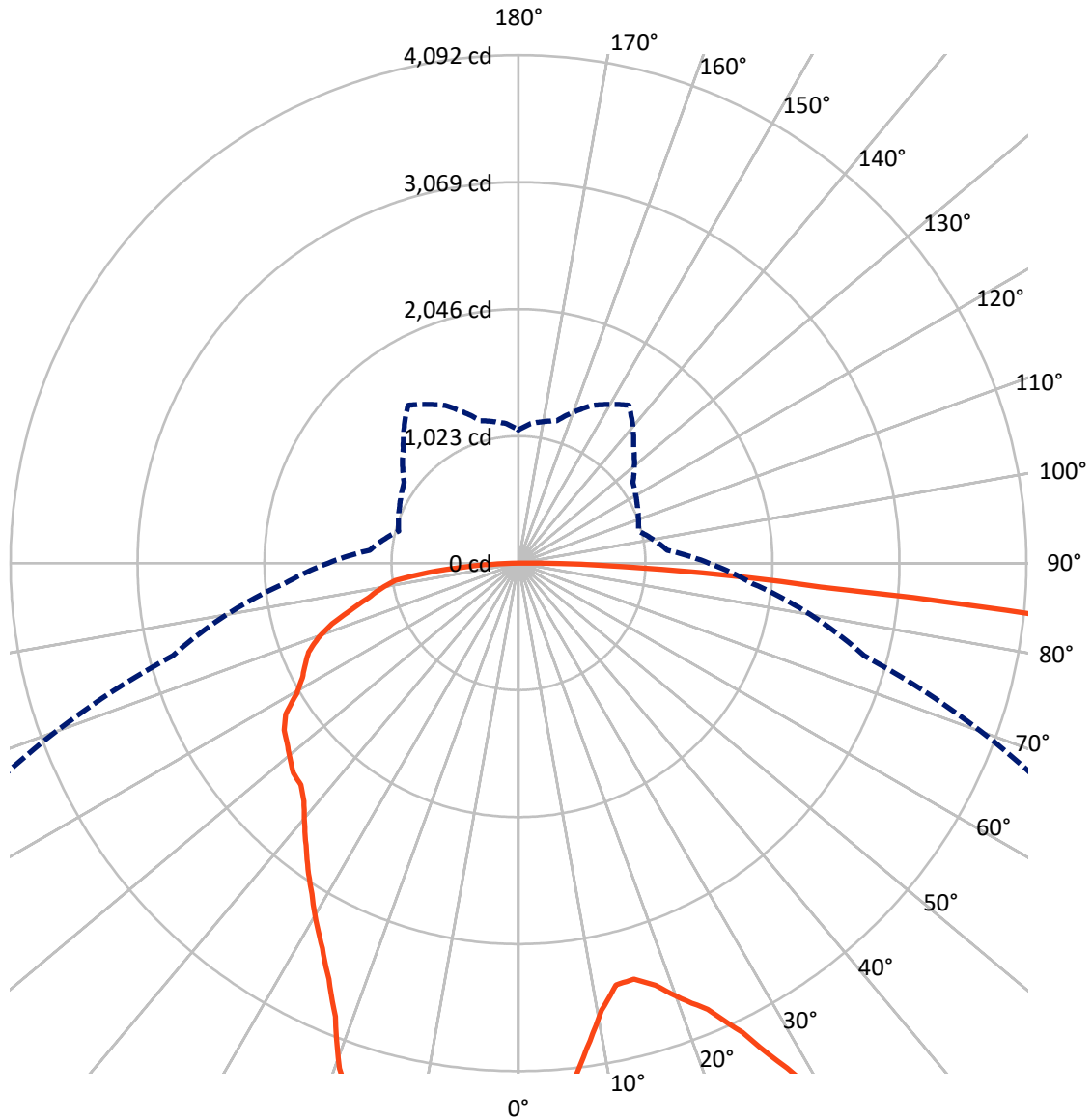
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P478070
CATALOG NUMBER: IFLD-L-SA8B-727-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478070
 CATALOG NUMBER: IFLD-L-SA8B-727-U-T4FT

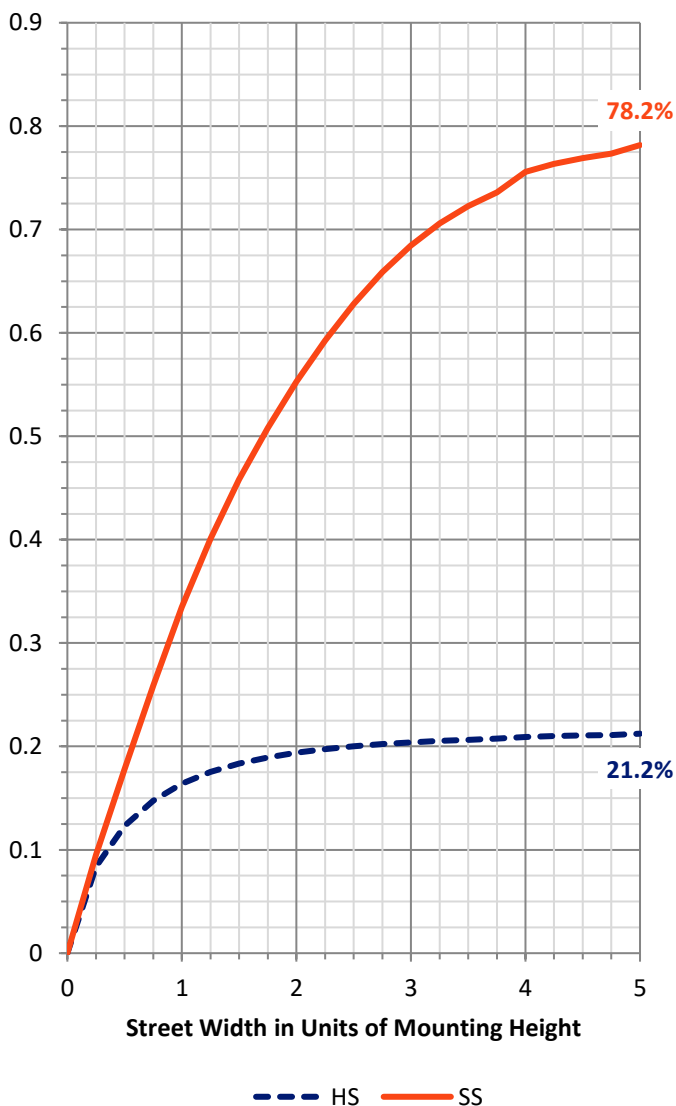
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7532.3	0.0	7532.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	27337.6	0.0	27337.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	34869.9	0.0	34869.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.4	1.3
10°-20°	1291.3	3.7
20°-30°	2125.2	6.1
30°-40°	3178.2	9.1
40°-50°	4711.6	13.5
50°-60°	6790.0	19.5
60°-70°	8664.9	24.8
70°-80°	6742.7	19.3
80°-90°	904.6	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°	34869.9	100.0
0°-180°	34869.9	100.0

Coefficient of Utilization



REPORT NUMBER: P478070

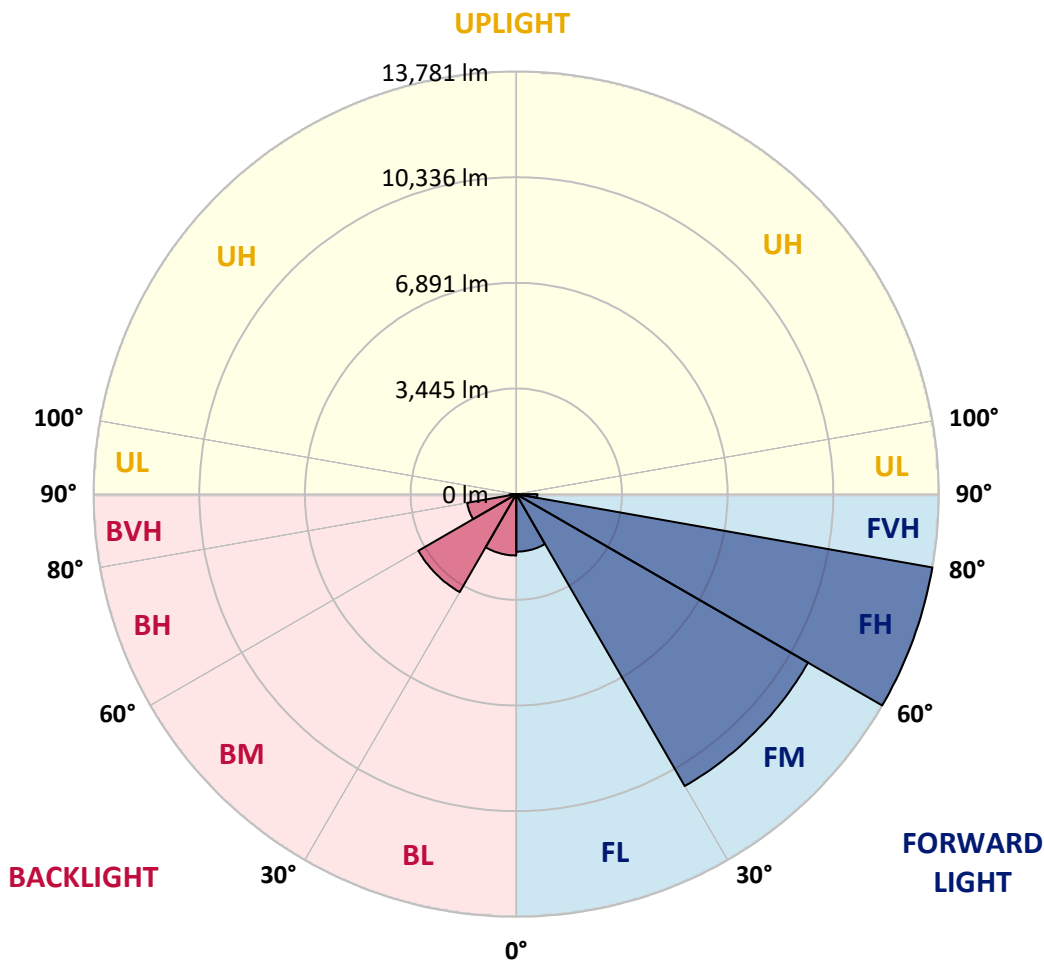
CATALOG NUMBER: IFLD-L-SA8B-727-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1876.6	5.4			
FM (30°-60°)	10991.2	31.5			
FH (60°-80°)	13781.2	39.5			G5
FVH (80°-90°)	688.5	2.0			G4/750
BL (0°-30°)	2001.3	5.7	B3/2500		
BM (30°-60°)	3688.6	10.6	B3/5000		
BH (60°-80°)	1626.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	216.0	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





REPORT NUMBER: P478070

CATALOG NUMBER: IFLD-L-SA8B-727-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4999.1	4999.1	4999.1	4999.1	4999.1	4999.1	4999.1	4999.1	4999.1	4999.1	4999.1
2.5°	4479.3	4494.1	4542.0	4553.1	4604.7	4575.2	4637.9	4748.5	4811.1	4903.3	5013.9
5°	4125.4	4062.7	4092.2	4206.5	4265.5	4280.2	4346.6	4534.6	4652.6	4789.0	4995.5
7.5°	3708.8	3697.7	3756.7	3830.5	3948.4	3959.5	4107.0	4272.9	4516.2	4818.5	5061.8
10°	3424.9	3472.9	3506.0	3583.5	3664.6	3664.6	3852.6	4140.2	4416.7	4707.9	5076.6
12.5°	3410.2	3380.7	3388.1	3428.6	3487.6	3561.3	3738.3	3996.4	4346.6	4685.8	5139.2
15°	3458.1	3469.2	3402.8	3454.4	3476.5	3502.4	3697.7	3989.0	4302.4	4763.2	5246.2
17.5°	3712.5	3649.8	3546.6	3498.7	3576.1	3576.1	3708.8	3937.4	4309.7	4803.8	5401.0
20°	3911.6	3911.6	3742.0	3690.4	3745.7	3734.6	3826.8	3996.4	4346.6	4884.9	5574.3
22.5°	4247.1	4295.0	4014.8	3907.9	3904.2	3933.7	4014.8	4158.6	4449.8	4999.1	5740.2
25°	4730.0	4741.1	4416.7	4306.1	4188.1	4236.0	4250.8	4394.5	4542.0	5131.9	5928.2
27.5°	5268.3	5260.9	4962.3	4685.8	4608.4	4619.4	4538.3	4634.2	4678.4	5172.4	6197.3
30°	5865.5	5799.2	5574.3	5183.5	5120.8	5050.8	4873.8	4870.1	4962.3	5401.0	6569.7
32.5°	6256.3	6171.5	6016.7	5736.5	5563.2	5570.6	5290.4	5286.7	5205.6	5651.7	6894.1
35°	6639.7	6510.7	6470.1	6182.6	6009.3	6027.7	5802.8	5773.4	5625.9	6031.4	7428.7
37.5°	7100.6	6986.3	7048.9	6831.4	6617.6	6529.1	6425.9	6389.0	6197.3	6566.0	8158.6
40°	7609.3	7572.5	7531.9	7425.0	7296.0	7303.3	7192.7	7155.9	6872.0	7211.2	8859.1
42.5°	8295.0	8155.0	7944.8	8014.9	8081.2	8151.3	8114.4	8018.5	7723.6	7867.4	9640.7
45°	8932.8	8748.5	8361.4	8383.5	8656.3	8711.6	9157.7	9146.7	8553.1	8700.6	10529.2
47.5°	9364.2	9279.4	9047.1	9021.3	9412.1	9408.4	10212.1	10212.1	9426.9	9530.1	11484.0
50°	10005.7	9784.5	9684.9	9814.0	10013.0	10149.5	11288.6	11358.7	10285.9	10396.5	12733.8
52.5°	10757.8	10481.3	10230.6	10562.4	10916.3	11004.8	12354.1	12324.6	10945.8	11402.9	14197.4
55°	11380.8	11240.7	11067.4	11259.1	11838.0	11948.6	13423.2	13150.4	11605.7	12236.1	14901.6
57.5°	12107.1	12191.9	12228.7	12180.8	12870.2	13043.5	14643.5	13861.9	12173.4	12796.5	15314.5
60°	13202.0	13253.6	13301.6	13415.9	14145.8	14389.1	15609.4	14754.1	12531.1	13120.9	15347.7
62.5°	14868.4	14669.3	14776.2	15170.7	15756.9	16033.4	17032.5	15380.9	12803.9	13316.3	14263.8
65°	16774.4	16505.3	16394.7	16903.5	18422.4	18201.2	18809.5	15849.1	12409.4	12586.4	12096.0
67.5°	18706.3	18735.7	18451.9	19473.1	21334.9	21334.9	20461.1	16074.0	11340.3	10201.1	8483.1
70°	20239.9	20332.1	20486.9	22466.7	25416.0	25862.1	22507.2	15152.3	9161.4	6790.9	4637.9
72.5°	20217.8	19941.3	20733.9	24380.1	29124.8	28752.5	22934.9	11981.7	5718.1	3325.4	2127.2
73°	19764.3	19532.1	20398.4	24361.6	29276.0	28925.8	22621.5	11045.3	5043.4	2883.0	1891.3
75°	16140.3	15720.0	17194.7	22064.8	27086.1	27355.2	19218.7	7203.8	2765.0	1777.0	1330.9
77.5°	7358.6	7543.0	9463.7	14802.1	20874.0	21191.1	12634.3	3115.3	1515.2	1246.1	980.7
80°	2363.2	2481.1	3683.0	7358.6	13084.1	13655.5	5839.7	1415.7	1080.2	954.9	733.7
82.5°	903.2	899.6	1544.7	3060.0	6201.0	6566.0	2134.6	862.7	803.7	704.2	519.8
85°	317.1	331.8	582.5	1209.2	2440.6	2554.9	741.0	479.3	556.7	471.9	298.6
87.5°	110.6	114.3	206.5	438.7	840.6	888.5	206.5	191.7	276.5	272.8	151.2
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: P478070
 CATALOG NUMBER: IFLD-L-SA8B-727-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4999.1	4999.1	4999.1	4999.1	4999.1	4999.1	4999.1	4999.1	4999.1	4999.1	4999.1
2.5°	5050.8	5083.9	5095.0	5227.7	5227.7	5227.7	5279.3	5279.3	5264.6	5227.7	5316.2
5°	5072.9	5131.9	5246.2	5360.4	5389.9	5415.7	5485.8	5426.8	5448.9	5412.1	5445.2
7.5°	5135.6	5216.7	5430.5	5500.5	5452.6	5507.9	5434.2	5393.6	5353.1	5367.8	5316.2
10°	5242.5	5345.7	5445.2	5574.3	5482.1	5426.8	5275.7	5238.8	5109.7	5065.5	5106.1
12.5°	5375.2	5500.5	5670.1	5622.2	5445.2	5286.7	5124.5	4969.7	4892.2	4781.6	4811.1
15°	5507.9	5651.7	5677.5	5596.4	5375.2	5176.1	4881.2	4663.7	4586.2	4486.7	4538.3
17.5°	5651.7	5788.1	5743.9	5533.7	5235.1	4932.8	4597.3	4383.5	4221.3	4158.6	4158.6
20°	5865.5	5931.9	5861.8	5430.5	5065.5	4667.3	4342.9	4099.6	3937.4	3911.6	3871.0
22.5°	6031.4	6138.3	5825.0	5279.3	4818.5	4320.8	3948.4	3856.3	3808.3	3767.8	3716.2
25°	6245.2	6241.6	5758.6	5139.2	4394.5	3907.9	3683.0	3675.6	3653.5	3638.8	3708.8
27.5°	6448.0	6363.2	5681.2	4792.7	3955.8	3594.5	3472.9	3554.0	3587.1	3565.0	3594.5
30°	6768.8	6628.7	5570.6	4424.0	3568.7	3277.5	3299.6	3410.2	3465.5	3498.7	3454.4
32.5°	7107.9	6894.1	5342.0	4040.6	3225.9	3078.4	3130.0	3244.3	3310.6	3347.5	3388.1
35°	7598.3	7100.6	5109.7	3539.2	2978.8	2956.7	2986.2	3048.9	3144.7	3170.6	3181.6
37.5°	8202.9	7413.9	4796.4	3137.4	2787.1	2812.9	2842.4	2864.6	2868.2	2916.2	2897.7
40°	8807.5	7679.4	4339.2	2754.0	2588.1	2728.1	2713.4	2672.8	2639.7	2595.4	2584.4
42.5°	9338.4	7911.6	3830.5	2429.5	2411.1	2639.7	2591.7	2488.5	2411.1	2377.9	2322.6
45°	9935.6	8239.7	3318.0	2226.8	2274.7	2532.8	2518.0	2359.5	2259.9	2142.0	2127.2
47.5°	10709.8	8582.6	2827.7	2016.6	2145.7	2492.2	2499.6	2296.8	2153.0	1994.5	1972.4
50°	11701.5	9076.6	2455.3	1928.1	2068.2	2433.2	2444.3	2212.0	2024.0	1861.8	1847.0
52.5°	12652.7	9581.7	2145.7	1791.7	2016.6	2363.2	2389.0	2134.6	1917.1	1714.3	1725.4
55°	13132.0	9397.4	1880.2	1692.2	1898.6	2248.9	2344.7	2079.3	1754.9	1614.8	1611.1
57.5°	13238.9	8943.9	1670.1	1589.0	1799.1	2127.2	2271.0	1913.4	1681.1	1563.2	1548.4
60°	12888.7	8151.3	1504.2	1478.4	1673.8	2001.9	2101.4	1824.9	1607.4	1511.5	1489.4
62.5°	12026.0	7329.1	1389.9	1426.7	1566.8	1865.5	1994.5	1762.2	1537.3	1471.0	1423.1
65°	9861.9	6027.7	1297.7	1327.2	1456.2	1732.7	1928.1	1692.2	1474.7	1412.0	1408.3
67.5°	6831.4	4154.9	1224.0	1279.3	1367.8	1636.9	1861.8	1614.8	1393.6	1371.4	1342.0
70°	3498.7	2215.7	1128.1	1172.4	1271.9	1515.2	1743.8	1533.7	1308.8	1305.1	1268.2
72.5°	1773.3	1297.7	1017.5	1083.9	1153.9	1356.7	1596.3	1426.7	1201.9	1161.3	1102.3
73°	1533.7	1201.9	999.1	1058.1	1124.4	1312.5	1552.1	1400.9	1187.1	1128.1	1072.8
75°	1117.1	947.5	895.9	954.9	1006.5	1183.4	1404.6	1283.0	1091.3	1028.6	977.0
77.5°	836.9	730.0	744.7	811.1	855.3	1021.2	1249.8	1161.3	988.0	903.2	881.1
80°	615.7	556.7	615.7	678.4	711.5	899.6	1139.2	1006.5	833.2	737.3	718.9
82.5°	438.7	405.5	475.6	516.1	530.9	744.7	1024.9	803.7	630.4	505.1	464.5
85°	250.7	247.0	320.7	317.1	328.1	435.0	674.7	534.6	405.5	309.7	302.3
87.5°	110.6	121.7	162.2	129.0	136.4	206.5	287.6	199.1	165.9	92.2	70.0
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)