

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: P478158

Luminaire Tested: **IFLD-S-SA3C-740-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478158
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-740-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

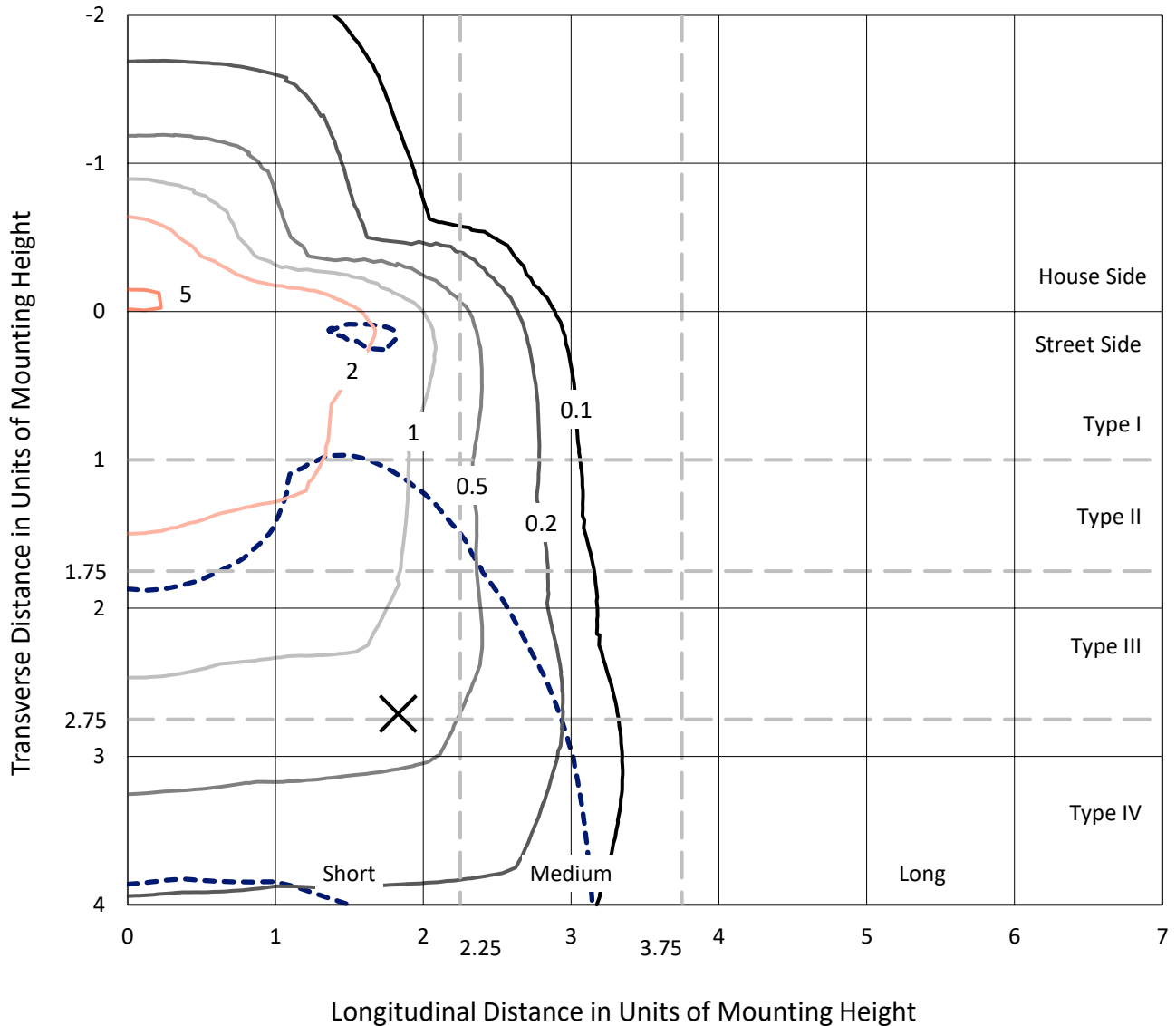
Lumens per Lamp: N/A
Luminaire Lumens: 21700.7 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 160.8
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: P478158
 CATALOG NUMBER: IFLD-S-SA3C-740-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

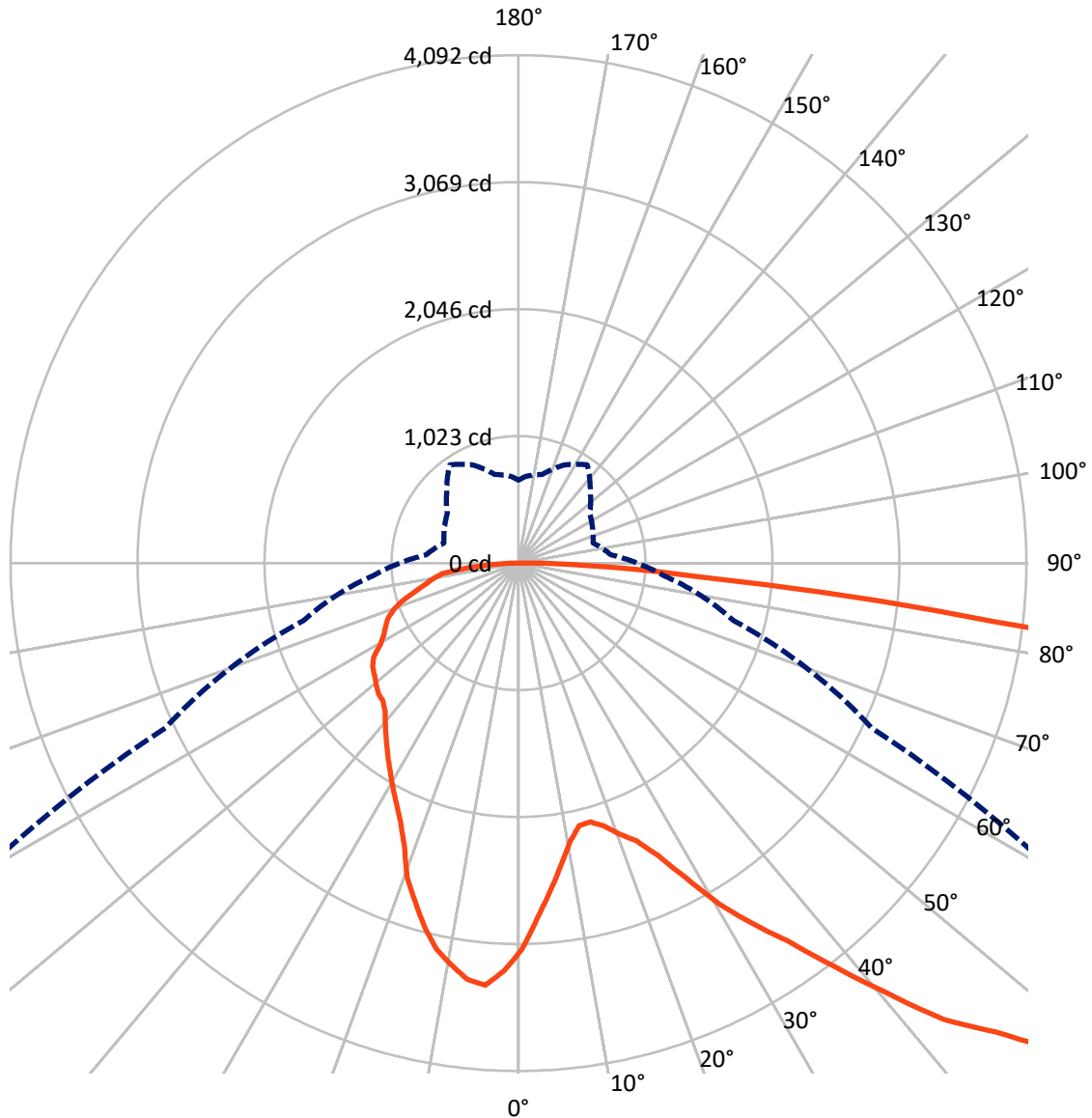
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P478158
CATALOG NUMBER: IFLD-S-SA3C-740-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478158
 CATALOG NUMBER: IFLD-S-SA3C-740-U-T4FT

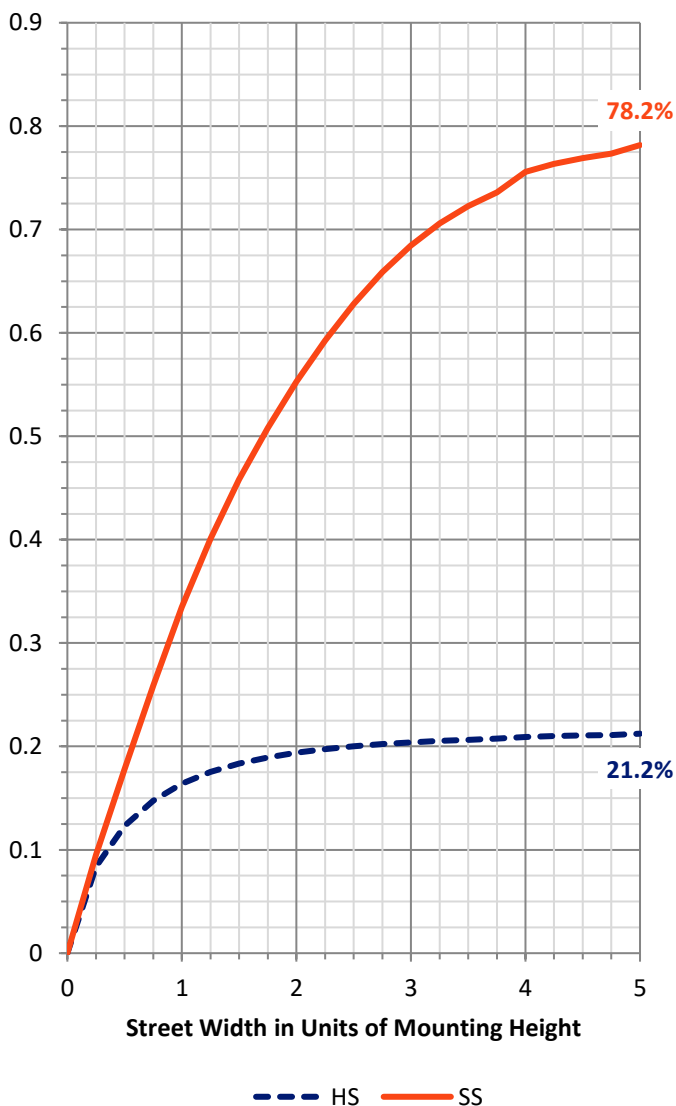
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4687.6	0.0	4687.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	17013.1	0.0	17013.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	21700.7	0.0	21700.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.1	1.3
10°-20°	803.6	3.7
20°-30°	1322.6	6.1
30°-40°	1977.9	9.1
40°-50°	2932.2	13.5
50°-60°	4225.6	19.5
60°-70°	5392.5	24.8
70°-80°	4196.2	19.3
80°-90°	563.0	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°	21700.7	100.0
0°-180°	21700.7	100.0

Coefficient of Utilization



REPORT NUMBER: P478158

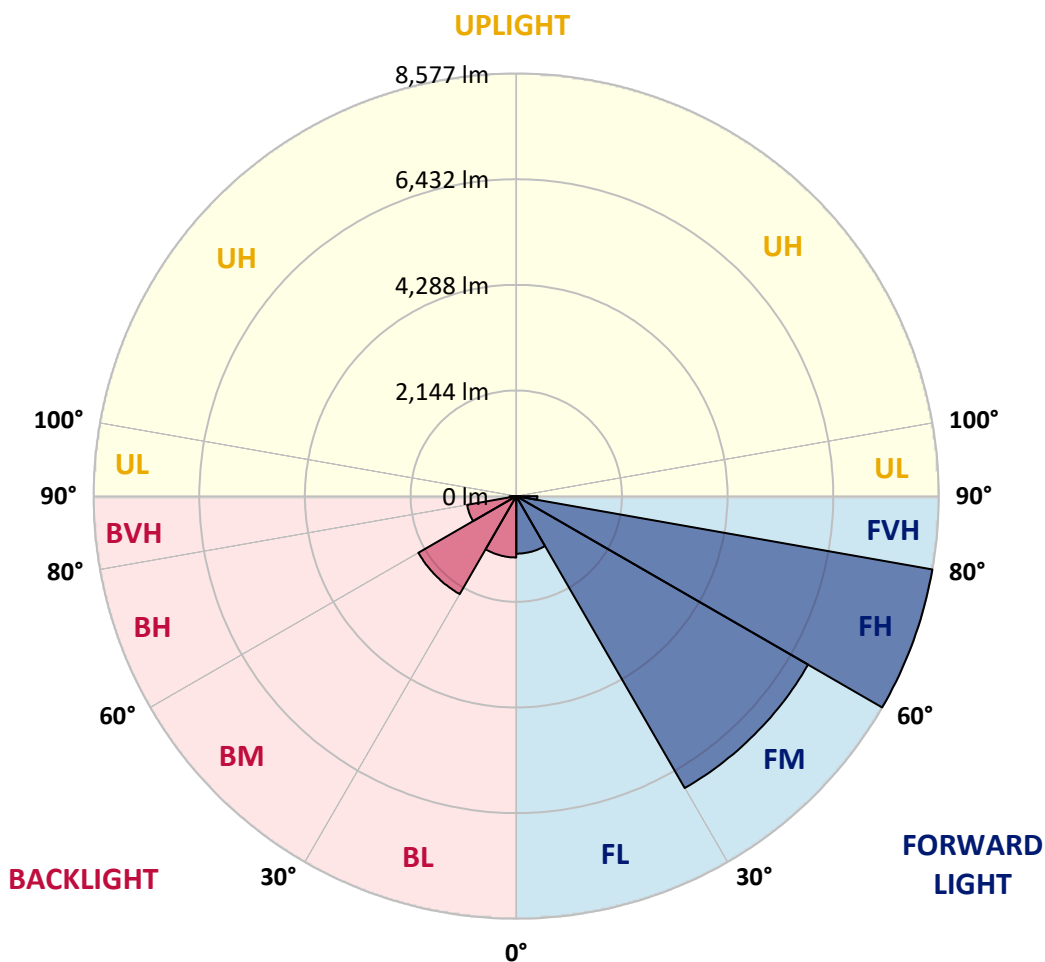
CATALOG NUMBER: IFLD-S-SA3C-740-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1167.9	5.4			
FM (30°-60°)	6840.2	31.5			
FH (60°-80°)	8576.5	39.5			G4/12000
FVH (80°-90°)	428.5	2.0			G3/500
BL (0°-30°)	1245.5	5.7	B3/2500		
BM (30°-60°)	2295.5	10.6	B2/2500		
BH (60°-80°)	1012.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	134.4	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-G4

Type IV Short





REPORT NUMBER: P478158
 CATALOG NUMBER: IFLD-S-SA3C-740-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3111.1	3111.1	3111.1	3111.1	3111.1	3111.1	3111.1	3111.1	3111.1	3111.1	3111.1
2.5°	2787.6	2796.8	2826.6	2833.5	2865.6	2847.3	2886.3	2955.1	2994.1	3051.5	3120.3
5°	2567.4	2528.4	2546.7	2617.9	2654.6	2663.7	2705.0	2822.1	2895.5	2980.4	3108.8
7.5°	2308.1	2301.2	2337.9	2383.8	2457.3	2464.1	2555.9	2659.2	2810.6	2998.7	3150.1
10°	2131.5	2161.3	2181.9	2230.1	2280.6	2280.6	2397.6	2576.6	2748.6	2929.9	3159.3
12.5°	2122.3	2103.9	2108.5	2133.7	2170.5	2216.3	2326.5	2487.1	2705.0	2916.1	3198.3
15°	2152.1	2159.0	2117.7	2149.8	2163.6	2179.6	2301.2	2482.5	2677.5	2964.3	3264.9
17.5°	2310.4	2271.4	2207.2	2177.3	2225.5	2225.5	2308.1	2450.4	2682.1	2989.5	3361.2
20°	2434.3	2434.3	2328.8	2296.6	2331.1	2324.2	2381.5	2487.1	2705.0	3040.0	3469.1
22.5°	2643.1	2672.9	2498.6	2432.0	2429.7	2448.1	2498.6	2588.0	2769.3	3111.1	3572.3
25°	2943.7	2950.5	2748.6	2679.8	2606.4	2636.2	2645.4	2734.9	2826.6	3193.7	3689.3
27.5°	3278.6	3274.0	3088.2	2916.1	2867.9	2874.8	2824.3	2884.0	2911.5	3219.0	3856.8
30°	3650.3	3609.0	3469.1	3225.9	3186.9	3143.3	3033.1	3030.8	3088.2	3361.2	4088.5
32.5°	3893.5	3840.7	3744.4	3570.0	3462.2	3466.8	3292.4	3290.1	3239.6	3517.2	4290.4
35°	4132.1	4051.8	4026.6	3847.6	3739.8	3751.3	3611.3	3593.0	3501.2	3753.6	4623.1
37.5°	4418.9	4347.8	4386.8	4251.4	4118.4	4063.3	3999.1	3976.1	3856.8	4086.2	5077.4
40°	4735.5	4712.6	4687.4	4620.8	4540.5	4545.1	4476.3	4453.3	4276.7	4487.8	5513.3
42.5°	5162.3	5075.1	4944.3	4987.9	5029.2	5072.8	5049.9	4990.2	4806.7	4896.2	5999.7
45°	5559.2	5444.5	5203.6	5217.4	5387.1	5421.6	5699.2	5692.3	5322.9	5414.7	6552.7
47.5°	5827.7	5774.9	5630.3	5614.3	5857.5	5855.2	6355.4	6355.4	5866.7	5930.9	7146.9
50°	6226.9	6089.2	6027.3	6107.6	6231.5	6316.4	7025.3	7068.9	6401.2	6470.1	7924.7
52.5°	6694.9	6522.8	6366.8	6573.3	6793.6	6848.6	7688.4	7670.0	6811.9	7096.4	8835.6
55°	7082.7	6995.5	6887.7	7007.0	7367.2	7436.0	8353.7	8184.0	7222.6	7615.0	9273.8
57.5°	7534.7	7587.4	7610.4	7580.5	8009.6	8117.4	9113.2	8626.8	7576.0	7963.7	9530.7
60°	8216.1	8248.2	8278.0	8349.2	8803.4	8954.9	9714.3	9182.0	7798.5	8165.6	9551.4
62.5°	9253.1	9129.2	9195.8	9441.3	9806.1	9978.1	10599.9	9572.0	7968.3	8287.2	8876.9
65°	10439.3	10271.8	10203.0	10519.6	11464.9	11327.2	11705.8	9863.4	7722.8	7832.9	7527.8
67.5°	11641.6	11659.9	11483.2	12118.8	13277.4	13277.4	12733.7	10003.4	7057.4	6348.5	5279.3
70°	12596.0	12653.4	12749.7	13981.8	15817.3	16094.9	14007.0	9429.8	5701.5	4226.2	2886.3
72.5°	12582.2	12410.2	12903.4	15172.6	18125.4	17893.7	14273.2	7456.7	3558.5	2069.5	1323.8
73°	12300.0	12155.5	12694.7	15161.1	18219.5	18001.5	14078.2	6873.9	3138.7	1794.2	1177.0
75°	10044.7	9783.1	10700.9	13731.7	16856.6	17024.1	11960.5	4483.2	1720.8	1105.9	828.3
77.5°	4579.5	4694.2	5889.6	9211.8	12990.6	13187.9	7862.8	1938.7	943.0	775.5	610.3
80°	1470.7	1544.1	2292.1	4579.5	8142.7	8498.3	3634.3	881.0	672.2	594.2	456.6
82.5°	562.1	559.8	961.3	1904.3	3859.1	4086.2	1328.4	536.9	500.2	438.2	323.5
85°	197.3	206.5	362.5	752.5	1518.9	1590.0	461.2	298.3	346.4	293.7	185.8
87.5°	68.8	71.1	128.5	273.0	523.1	552.9	128.5	119.3	172.1	169.8	94.1
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: P478158
 CATALOG NUMBER: IFLD-S-SA3C-740-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3111.1	3111.1	3111.1	3111.1	3111.1	3111.1	3111.1	3111.1	3111.1	3111.1	3111.1
2.5°	3143.3	3163.9	3170.8	3253.4	3253.4	3253.4	3285.5	3285.5	3276.3	3253.4	3308.5
5°	3157.0	3193.7	3264.9	3336.0	3354.3	3370.4	3414.0	3377.3	3391.1	3368.1	3388.8
7.5°	3196.0	3246.5	3379.6	3423.2	3393.3	3427.8	3381.9	3356.6	3331.4	3340.6	3308.5
10°	3262.6	3326.8	3388.8	3469.1	3411.7	3377.3	3283.2	3260.3	3180.0	3152.4	3177.7
12.5°	3345.2	3423.2	3528.7	3498.9	3388.8	3290.1	3189.2	3092.8	3044.6	2975.8	2994.1
15°	3427.8	3517.2	3533.3	3482.8	3345.2	3221.3	3037.7	2902.4	2854.2	2792.2	2824.3
17.5°	3517.2	3602.1	3574.6	3443.8	3258.0	3069.8	2861.1	2728.0	2627.0	2588.0	2588.0
20°	3650.3	3691.6	3648.0	3379.6	3152.4	2904.7	2702.7	2551.3	2450.4	2434.3	2409.1
22.5°	3753.6	3820.1	3625.1	3285.5	2998.7	2689.0	2457.3	2399.9	2370.1	2344.8	2312.7
25°	3886.6	3884.3	3583.8	3198.3	2734.9	2432.0	2292.1	2287.5	2273.7	2264.5	2308.1
27.5°	4012.8	3960.1	3535.6	2982.7	2461.8	2237.0	2161.3	2211.8	2232.4	2218.6	2237.0
30°	4212.4	4125.2	3466.8	2753.2	2220.9	2039.7	2053.4	2122.3	2156.7	2177.3	2149.8
32.5°	4423.5	4290.4	3324.5	2514.6	2007.6	1915.8	1947.9	2019.0	2060.3	2083.3	2108.5
35°	4728.7	4418.9	3180.0	2202.6	1853.8	1840.1	1858.4	1897.4	1957.1	1973.1	1980.0
37.5°	5104.9	4613.9	2985.0	1952.5	1734.5	1750.6	1768.9	1782.7	1785.0	1814.8	1803.4
40°	5481.2	4779.1	2700.5	1713.9	1610.6	1697.8	1688.6	1663.4	1642.8	1615.2	1608.3
42.5°	5811.6	4923.7	2383.8	1512.0	1500.5	1642.8	1612.9	1548.7	1500.5	1479.9	1445.4
45°	6183.3	5127.9	2064.9	1385.8	1415.6	1576.2	1567.0	1468.4	1406.4	1333.0	1323.8
47.5°	6665.1	5341.3	1759.8	1255.0	1335.3	1551.0	1555.6	1429.4	1339.9	1241.2	1227.5
50°	7282.3	5648.7	1528.0	1199.9	1287.1	1514.3	1521.2	1376.6	1259.6	1158.6	1149.5
52.5°	7874.2	5963.0	1335.3	1115.1	1255.0	1470.7	1486.7	1328.4	1193.1	1066.9	1073.8
55°	8172.5	5848.3	1170.1	1053.1	1181.6	1399.6	1459.2	1294.0	1092.1	1004.9	1002.6
57.5°	8239.0	5566.1	1039.3	988.9	1119.6	1323.8	1413.3	1190.8	1046.2	972.8	963.6
60°	8021.1	5072.8	936.1	920.0	1041.6	1245.8	1307.8	1135.7	1000.3	940.7	926.9
62.5°	7484.2	4561.2	865.0	887.9	975.1	1160.9	1241.2	1096.7	956.7	915.4	885.6
65°	6137.4	3751.3	807.6	826.0	906.3	1078.3	1199.9	1053.1	917.7	878.7	876.4
67.5°	4251.4	2585.7	761.7	796.1	851.2	1018.7	1158.6	1004.9	867.3	853.5	835.1
70°	2177.3	1378.9	702.1	729.6	791.6	943.0	1085.2	954.5	814.5	812.2	789.3
72.5°	1103.6	807.6	633.2	674.5	718.1	844.3	993.5	887.9	748.0	722.7	686.0
73°	954.5	748.0	621.8	658.5	699.8	816.8	965.9	871.9	738.8	702.1	667.7
75°	695.2	589.6	557.5	594.2	626.4	736.5	874.1	798.4	679.1	640.1	608.0
77.5°	520.8	454.3	463.5	504.8	532.3	635.5	777.8	722.7	614.9	562.1	548.4
80°	383.2	346.4	383.2	422.2	442.8	559.8	709.0	626.4	518.5	458.9	447.4
82.5°	273.0	252.4	296.0	321.2	330.4	463.5	637.8	500.2	392.3	314.3	289.1
85°	156.0	153.7	199.6	197.3	204.2	270.7	419.9	332.7	252.4	192.7	188.1
87.5°	68.8	75.7	101.0	80.3	84.9	128.5	179.0	123.9	103.2	57.4	43.6
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)