

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: P271194

Luminaire Tested: **NVN-AF-06-LED-U-T4FT-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271194  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24256)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-AF-06-LED-U-T4FT-7027-600  
Description: NAVION ROADWAY AND AREA LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20782.9 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 193  
Input Voltage (V): NR  
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: 28.75 FT

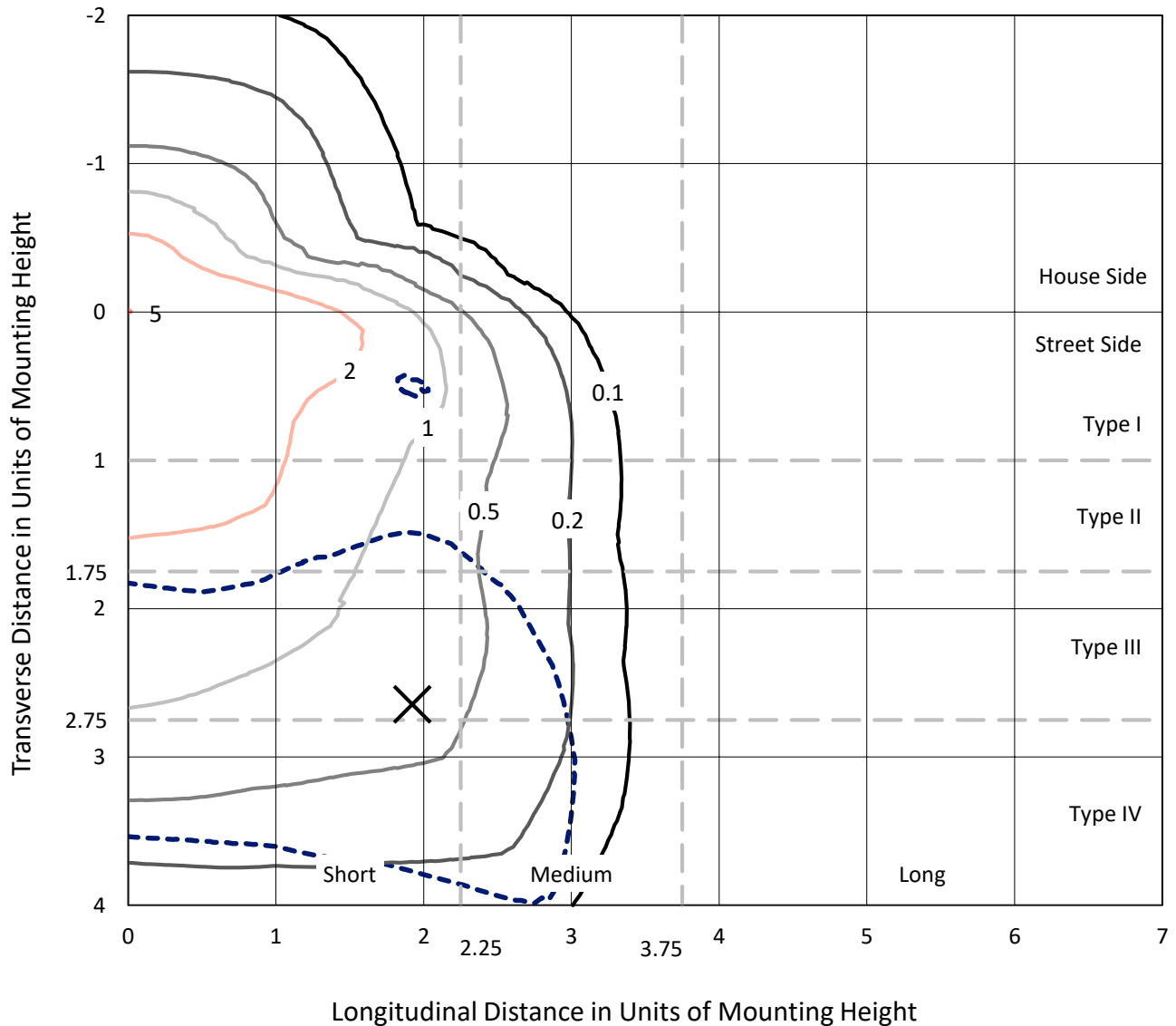


REPORT NUMBER: P271194

CATALOG NUMBER: NVN-AF-06-LED-U-T4FT-7027-600

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

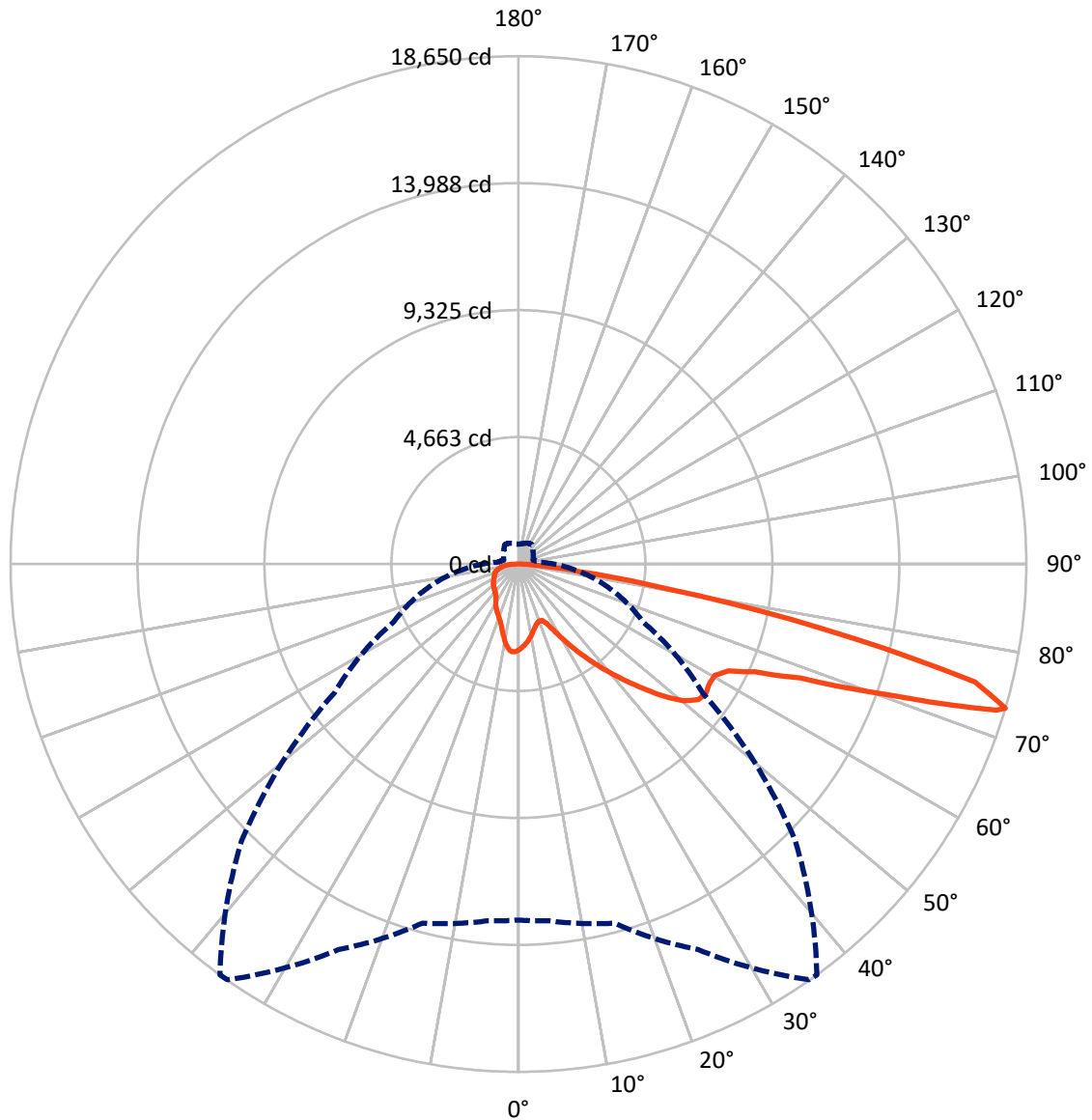


Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P271194

CATALOG NUMBER: NVN-AF-06-LED-U-T4FT-7027-600

### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical



REPORT NUMBER: P271194

CATALOG NUMBER: NVN-AF-06-LED-U-T4FT-7027-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4007.6	0.0	4007.6
	% Fixture	19.3	0.0	19.3
<b>Street Side</b>	Lumens	16775.3	0.0	16775.3
	% Fixture	80.7	0.0	80.7
<b>Total</b>	Lumens	20782.9	0.0	20782.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.9	1.4
10°-20°	718.1	3.5
20°-30°	1151.3	5.5
30°-40°	1904.4	9.2
40°-50°	2946.9	14.2
50°-60°	3944.9	19.0
60°-70°	5153.4	24.8
70°-80°	4209.4	20.3
80°-90°	468.5	2.3
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°	20782.9	100.0
0°-180°	20782.9	100.0



REPORT NUMBER: P271194

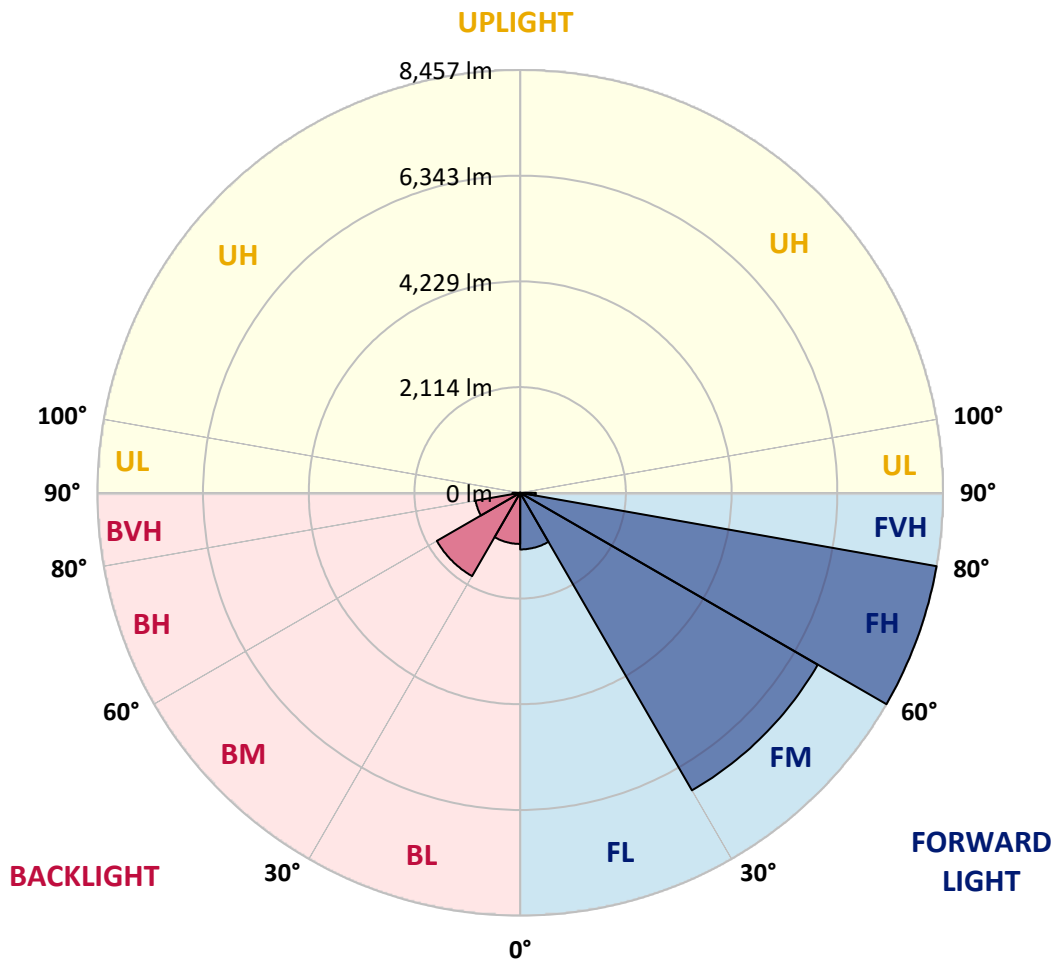
CATALOG NUMBER: NVN-AF-06-LED-U-T4FT-7027-600

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1132.4	5.4			
FM	(30°-60°)	6871.5	33.1			
FH	(60°-80°)	8457.1	40.7			G4/12000
FVH	(80°-90°)	314.2	1.5			G3/500
BL	(0°-30°)	1023.0	4.9	B3/2500		
BM	(30°-60°)	1924.7	9.3	B2/2500		
BH	(60°-80°)	905.6	4.4	B2/1000		G2/1000
BVH	(80°-90°)	154.3	0.7			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: P271194

CATALOG NUMBER: NVN-AF-06-LED-U-T4FT-7027-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3148.0	3148.0	3148.0	3148.0	3148.0	3148.0	3148.0	3148.0	3148.0	3148.0	3148.0
2.5°	3027.8	3035.7	3037.1	3046.3	3046.3	3045.1	3048.9	3064.7	3072.7	3091.2	3107.1
5°	2878.6	2888.0	2891.9	2907.6	2927.4	2928.8	2943.3	2973.7	3002.8	3043.6	3078.0
7.5°	2710.9	2721.4	2732.0	2765.1	2794.1	2796.8	2824.5	2873.4	2911.6	2961.8	3023.9
10°	2548.5	2551.1	2561.6	2603.9	2642.3	2646.2	2685.8	2741.3	2792.8	2862.8	2932.7
12.5°	2415.2	2423.1	2420.5	2452.2	2485.2	2487.8	2540.5	2610.6	2685.8	2765.1	2848.3
15°	2368.9	2367.7	2339.8	2338.6	2353.1	2355.7	2407.2	2489.1	2573.6	2671.3	2778.3
17.5°	2400.6	2390.0	2317.4	2272.5	2263.3	2266.0	2304.2	2394.1	2483.9	2596.0	2724.1
20°	2574.9	2533.9	2363.6	2255.4	2225.0	2225.0	2247.4	2320.1	2419.0	2549.7	2710.9
22.5°	2988.2	2924.8	2561.6	2368.9	2261.9	2251.4	2234.3	2289.7	2399.4	2556.4	2765.1
25°	3508.5	3478.1	2924.8	2671.3	2450.8	2416.5	2303.0	2322.7	2440.2	2627.7	2912.9
27.5°	3990.5	3937.6	3401.5	3111.0	2799.4	2746.6	2506.2	2425.8	2537.9	2759.9	3126.9
30°	4271.7	4236.0	3891.4	3614.2	3243.2	3175.7	2831.1	2629.1	2712.3	2977.6	3430.5
32.5°	4578.0	4556.9	4382.7	4130.4	3723.7	3645.9	3251.0	2960.5	2979.0	3266.9	3796.3
35°	4875.2	4902.9	4803.9	4619.1	4241.3	4168.8	3814.8	3393.5	3307.7	3591.7	4187.2
37.5°	5231.6	5238.2	5176.3	5056.1	4785.5	4726.0	4434.2	3855.7	3665.7	3937.6	4564.8
40°	5943.5	5839.2	5596.1	5501.1	5340.0	5303.1	4970.2	4279.6	3998.4	4292.8	4921.4
42.5°	6713.3	6550.9	6170.5	6014.7	5950.1	5915.7	5416.6	4562.2	4310.0	4648.1	5271.3
45°	7333.9	7201.8	6829.5	6636.7	6644.7	6589.2	5806.1	4814.5	4648.1	5004.5	5662.1
47.5°	7945.2	7724.7	7307.5	7279.8	7372.2	7290.4	6178.5	5066.6	5000.7	5392.9	6053.0
50°	7984.9	7784.2	7615.1	7837.1	7995.5	7893.8	6516.6	5396.7	5366.4	5862.9	6557.4
52.5°	7503.0	7473.9	7731.4	8105.0	8367.8	8276.8	6792.5	5736.1	5740.1	6450.5	7171.4
55°	7327.2	7290.4	7599.3	8058.9	8414.1	8359.8	6998.4	6119.1	6154.6	7163.5	7830.3
57.5°	7623.0	7530.6	7591.3	7971.6	8305.8	8274.1	7212.4	6544.2	6608.9	7984.9	8439.1
60°	8540.7	8352.0	8029.8	8101.0	8309.7	8291.3	7518.8	7018.3	7126.6	8840.5	8824.7
62.5°	9915.4	9701.4	9045.3	8728.3	8682.1	8646.5	8024.5	7600.6	7654.7	9458.6	8600.3
65°	11423.3	11193.6	10413.2	9894.3	9622.3	9545.7	8840.5	8303.2	7963.7	9457.1	7726.1
67.5°	13116.2	12873.3	12095.5	11600.4	11305.9	11175.2	10165.0	8870.9	7863.5	8657.0	6182.5
70°	14850.1	14618.9	14262.4	14435.4	14564.8	14365.3	12251.4	9059.8	7142.5	6787.2	4151.5
72.5°	13929.7	13911.2	14181.8	15821.8	18316.3	18355.8	14335.1	8526.3	5518.3	4034.0	2213.2
73°	13075.3	13153.3	13655.0	15617.3	18637.1	18650.3	14375.9	8250.4	5066.6	3475.5	1943.8
75°	6773.9	7302.2	9164.1	12663.2	17257.2	17319.3	12672.6	6245.8	3019.9	1930.5	1309.9
77.5°	1814.3	1790.5	2952.5	6169.2	11505.2	11423.3	8007.3	3023.9	1447.2	1210.8	919.1
80°	621.9	629.8	1004.8	2256.7	5370.3	5561.9	3475.5	1319.2	952.1	843.8	651.0
82.5°	316.9	327.5	525.6	960.0	2246.1	2198.6	1118.4	776.5	637.7	512.4	364.4
85°	169.1	174.4	289.2	497.8	823.9	833.2	393.5	414.7	405.3	290.5	179.7
87.5°	83.3	85.8	138.7	219.1	305.1	294.5	137.4	179.7	199.5	163.8	99.1
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: P271194

CATALOG NUMBER: NVN-AF-06-LED-U-T4FT-7027-600

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3148.0	3148.0	3148.0	3148.0	3148.0	3148.0	3148.0	3148.0	3148.0	3148.0	3148.0
2.5°	3126.9	3126.9	3144.1	3173.2	3194.3	3214.0	3227.3	3248.4	3260.3	3259.0	3257.7
5°	3105.7	3118.9	3153.3	3189.0	3212.7	3228.6	3228.6	3237.9	3237.9	3233.8	3228.6
7.5°	3056.9	3079.3	3129.5	3161.2	3167.9	3150.6	3116.3	3089.9	3056.9	3039.8	3033.0
10°	2979.0	3008.1	3071.5	3085.9	3051.6	2990.8	2907.6	2836.4	2773.0	2744.0	2734.7
12.5°	2902.5	2940.7	3000.1	2977.6	2895.7	2776.9	2648.8	2551.1	2479.9	2452.2	2442.9
15°	2839.1	2885.3	2931.4	2861.5	2718.8	2553.8	2412.5	2321.4	2267.2	2246.1	2240.8
17.5°	2796.8	2851.0	2866.8	2736.0	2537.9	2353.1	2227.6	2168.1	2144.4	2135.2	2132.5
20°	2799.4	2860.2	2821.8	2614.5	2363.6	2177.4	2094.3	2077.2	2077.2	2077.2	2075.8
22.5°	2872.1	2924.8	2803.4	2501.1	2195.9	2029.6	1993.9	2008.4	2019.0	2019.0	2017.7
25°	3022.5	3051.6	2816.5	2391.4	2038.9	1901.5	1902.8	1930.5	1939.8	1939.8	1937.1
27.5°	3252.4	3228.6	2840.4	2269.8	1884.4	1785.3	1803.7	1828.9	1835.4	1831.5	1830.1
30°	3540.2	3445.1	2860.2	2127.2	1739.1	1677.0	1692.9	1707.4	1702.1	1692.9	1691.5
32.5°	3862.4	3665.7	2848.3	1967.5	1611.0	1564.8	1574.0	1581.9	1574.0	1551.6	1551.6
35°	4181.9	3865.0	2783.6	1793.1	1509.3	1456.5	1455.2	1480.2	1478.9	1452.5	1453.8
37.5°	4461.9	4022.2	2658.2	1633.4	1422.1	1377.2	1382.5	1398.4	1406.2	1370.6	1366.7
40°	4706.2	4130.4	2481.2	1497.5	1352.2	1354.9	1340.4	1315.2	1306.0	1290.1	1287.5
42.5°	4935.8	4205.7	2293.6	1383.8	1316.5	1346.9	1298.1	1238.7	1213.5	1228.1	1237.2
45°	5161.8	4290.2	2112.8	1290.1	1271.6	1323.2	1255.8	1189.7	1160.7	1167.3	1176.5
47.5°	5437.7	4407.8	1894.9	1189.7	1202.9	1279.5	1229.4	1158.0	1114.4	1088.0	1080.1
50°	5800.9	4578.0	1612.3	1081.5	1130.2	1231.9	1207.0	1111.8	1064.3	1011.5	998.2
52.5°	6255.1	4739.2	1327.1	994.3	1070.9	1191.1	1170.0	1072.2	1014.1	950.8	940.2
55°	6708.1	4761.6	1081.5	919.1	1003.5	1135.5	1125.0	1040.5	958.6	907.2	896.6
57.5°	7024.8	4548.9	916.5	855.6	938.9	1066.9	1084.2	1002.1	912.5	872.9	866.2
60°	7030.1	4040.7	816.0	813.4	890.0	1007.4	1041.9	957.4	883.5	857.1	851.8
62.5°	6471.6	3256.3	751.3	781.7	854.4	958.6	1010.1	932.3	876.7	866.2	860.9
65°	5424.4	2405.9	699.9	752.7	821.3	917.7	983.7	924.4	874.1	870.2	866.2
67.5°	4005.1	1649.3	656.3	715.7	784.4	875.5	958.6	912.5	858.3	874.1	868.9
70°	2519.4	1101.3	615.2	673.4	735.5	826.6	925.7	891.3	838.5	829.2	812.1
72.5°	1422.1	796.3	566.6	619.3	672.1	761.9	880.8	855.6	793.7	756.6	739.5
73°	1284.8	753.9	554.7	606.0	657.6	748.6	870.2	845.0	780.4	739.5	723.7
75°	940.2	616.6	500.4	552.0	596.8	687.9	820.1	792.2	722.2	673.4	662.9
77.5°	681.4	475.4	430.5	476.7	516.3	603.4	744.8	713.1	644.4	617.9	607.4
80°	491.3	360.5	356.5	401.5	435.8	524.3	664.1	631.1	565.2	643.0	625.8
82.5°	293.1	231.0	261.4	311.6	347.3	439.7	577.0	538.8	475.4	480.7	409.4
85°	140.0	130.8	162.5	204.6	229.7	301.0	480.7	450.3	380.3	311.6	305.1
87.5°	62.1	59.4	78.0	91.1	122.8	180.9	328.8	291.8	276.0	165.1	129.4
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)