

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: P319017

Luminaire Tested: **GAN-SA3D-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21422 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

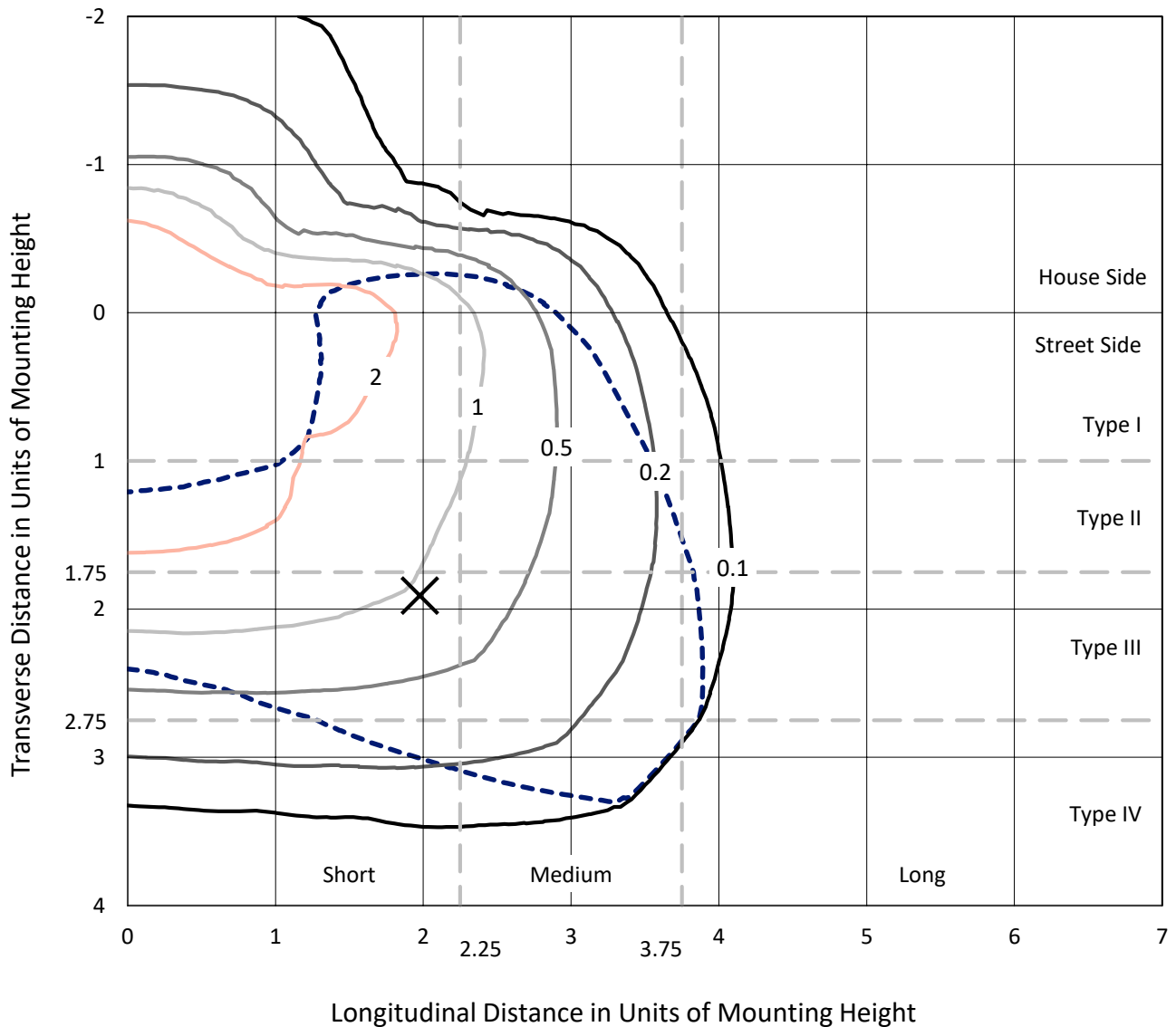
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319017
 CATALOG NUMBER: GAN-SA3D-730-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

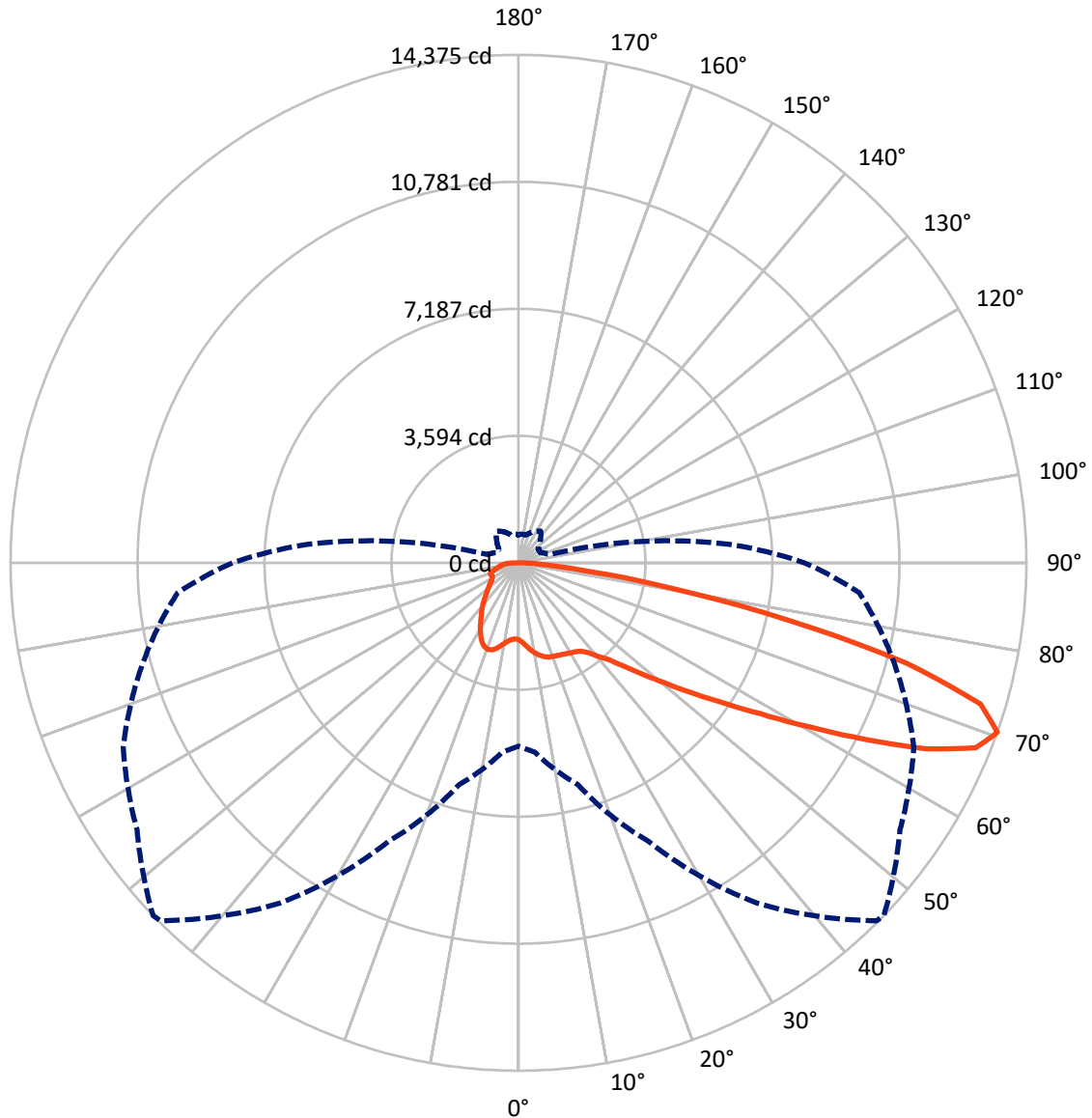
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P319017
CATALOG NUMBER: GAN-SA3D-730-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P319017
 CATALOG NUMBER: GAN-SA3D-730-U-T4W

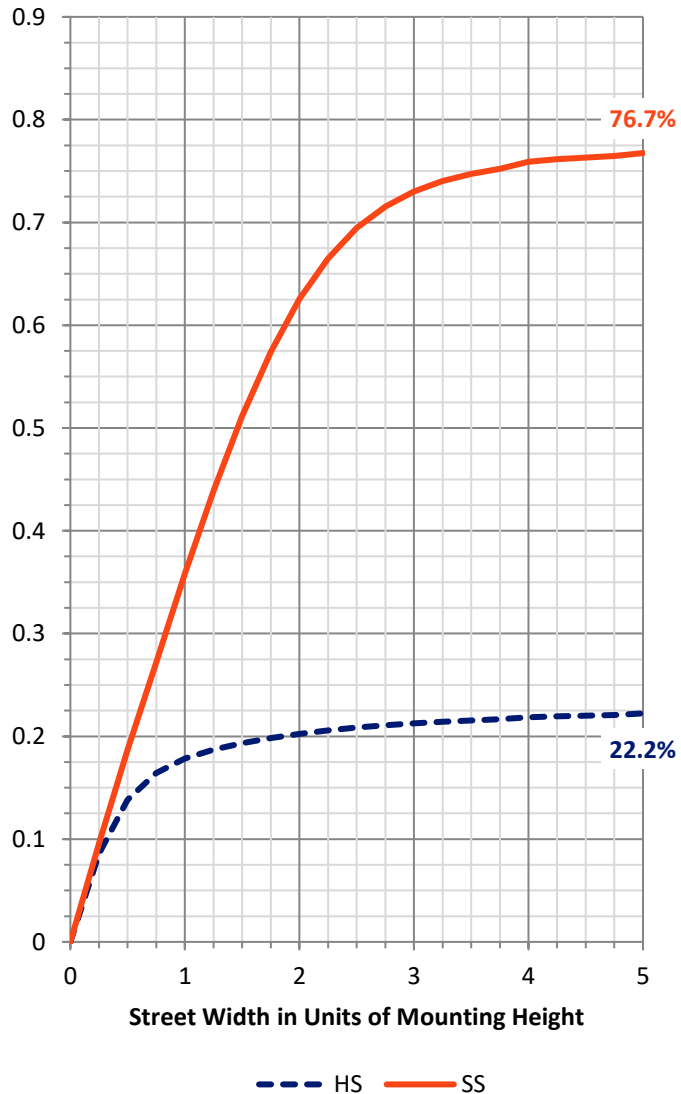
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4909.8	0.0	4909.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	16512.1	0.0	16512.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	21422.0	0.0	21422.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.5	1.0
10°-20°	741.3	3.5
20°-30°	1236.0	5.8
30°-40°	1753.9	8.2
40°-50°	2579.9	12.0
50°-60°	4369.1	20.4
60°-70°	6201.8	29.0
70°-80°	3767.7	17.6
80°-90°	549.8	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°	21422.0	100.0
0°-180°	21422.0	100.0

Coefficient of Utilization



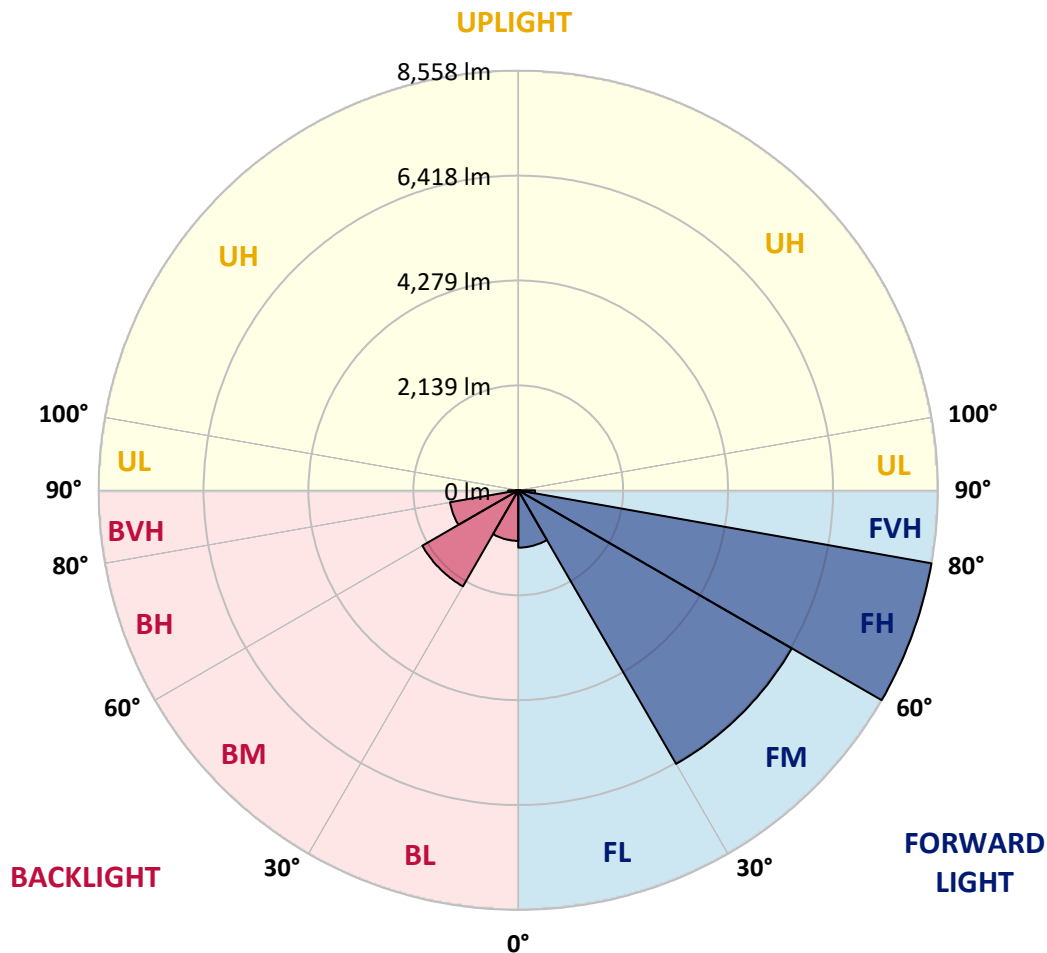
REPORT NUMBER: P319017
 CATALOG NUMBER: GAN-SA3D-730-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1168.9	5.5			
FM (30°-60°)	6442.8	30.1			
FH (60°-80°)	8558.0	39.9			G4/12000
FVH (80°-90°)	342.5	1.6			G3/500
BL (0°-30°)	1030.8	4.8	B3/2500		
BM (30°-60°)	2260.1	10.6	B2/2500		
BH (60°-80°)	1411.5	6.6	B3/2500		G3/2500
BVH (80°-90°)	207.3	1.0			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: P319017

CATALOG NUMBER: GAN-SA3D-730-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2182.5	2182.5	2182.5	2182.5	2182.5	2182.5	2182.5	2182.5	2182.5	2182.5	2182.5
2.5°	2291.7	2293.2	2296.1	2288.8	2268.3	2262.4	2260.2	2238.9	2225.0	2204.5	2186.9
5°	2475.0	2476.5	2472.1	2451.5	2406.1	2372.4	2369.4	2321.0	2277.1	2230.1	2194.9
7.5°	2666.3	2668.5	2654.6	2615.8	2552.0	2493.3	2489.7	2423.7	2357.0	2285.9	2233.1
10°	2835.7	2826.9	2804.2	2749.9	2674.4	2602.6	2599.6	2530.7	2453.7	2368.0	2297.6
12.5°	2948.6	2941.3	2911.9	2846.0	2763.1	2697.1	2691.3	2627.5	2552.7	2458.9	2374.6
15°	3010.9	3016.0	2976.4	2901.7	2821.0	2765.3	2760.2	2714.7	2648.0	2553.4	2456.7
17.5°	3019.0	3023.4	2985.2	2911.2	2845.2	2807.1	2804.9	2774.8	2726.5	2635.5	2534.4
20°	2972.0	2975.0	2943.5	2882.6	2839.4	2827.6	2826.9	2813.7	2777.8	2697.1	2598.9
22.5°	2903.9	2906.1	2883.3	2839.4	2824.7	2843.0	2848.2	2843.0	2817.4	2741.8	2649.5
25°	2887.0	2885.5	2862.1	2817.4	2829.8	2868.7	2875.3	2877.5	2859.9	2793.9	2714.0
27.5°	2968.4	2963.2	2918.5	2846.7	2854.7	2901.7	2910.5	2931.7	2920.7	2862.8	2787.3
30°	3203.7	3194.9	3103.3	2958.1	2918.5	2942.7	2953.7	2987.4	2989.6	2941.3	2884.8
32.5°	3601.1	3590.1	3425.8	3166.3	3026.3	2984.5	2994.8	3045.4	3072.5	3035.1	2974.2
35°	4103.2	4090.8	3875.2	3520.4	3206.6	3064.4	3071.8	3112.1	3166.3	3113.5	3032.9
37.5°	4626.7	4596.6	4389.2	3936.8	3493.3	3235.2	3235.2	3240.4	3266.0	3156.1	3101.8
40°	5147.2	5117.1	4929.5	4426.5	3864.2	3504.3	3487.4	3373.8	3353.3	3258.7	3240.4
42.5°	5631.1	5622.3	5511.6	4980.0	4299.7	3768.9	3745.5	3552.7	3557.1	3498.4	3499.2
45°	6145.7	6145.7	6055.5	5538.7	4807.0	4194.1	4170.7	3887.0	3931.0	3903.8	3969.1
47.5°	6565.8	6579.0	6566.5	6120.8	5397.2	4734.5	4691.9	4350.3	4473.5	4566.6	4756.4
50°	6994.6	7015.2	7017.4	6759.3	6110.5	5376.7	5328.3	4965.4	5240.3	5507.2	5880.3
52.5°	7617.1	7663.2	7479.2	7396.4	6984.4	6139.1	6091.5	5756.4	6215.3	6590.0	7232.9
55°	8194.0	8153.7	8022.5	8073.8	7919.8	7007.1	6971.2	6677.2	7301.8	7788.6	8623.6
57.5°	8506.3	8503.4	8635.4	8855.3	8928.6	8077.5	8047.4	7761.5	8526.9	8892.7	9929.3
60°	8872.9	8878.0	9205.0	9704.2	10006.3	9410.3	9397.1	9180.1	9716.7	9923.4	10953.5
62.5°	8924.2	9016.6	9579.6	10438.8	11015.0	10967.4	10996.7	10457.9	10781.2	10746.0	11718.1
65°	8334.0	8455.7	9474.8	10661.0	12017.9	12670.4	12697.5	11743.0	11620.6	11449.1	11991.6
67.5°	7124.4	7304.8	8411.8	10177.8	12348.6	13929.2	13967.3	12739.3	12317.1	11687.3	11333.2
70°	5184.6	5384.7	6499.1	8692.5	11759.2	14331.7	14374.9	13179.9	12343.5	11009.2	9674.9
72.5°	3131.9	3288.8	4207.3	6399.4	9924.9	13598.5	13675.5	12621.3	11269.4	9325.2	7144.2
75°	1375.3	1478.0	2034.4	3687.6	7105.3	11251.1	11347.1	10803.2	9156.6	6776.9	4222.7
77.5°	585.8	615.1	834.3	1601.9	4016.7	7688.2	7820.1	7893.4	6212.4	3687.6	1784.4
80°	365.1	376.8	472.1	725.1	1879.7	4318.0	4460.3	4644.3	3084.9	1355.5	623.1
82.5°	222.1	235.3	313.8	438.4	978.7	1957.4	2025.6	2155.4	1197.2	585.8	322.6
85°	133.4	143.0	192.1	277.1	557.2	769.8	769.0	850.4	563.8	376.8	170.1
87.5°	63.8	71.1	102.6	143.7	280.8	288.8	270.5	306.4	342.4	247.1	85.8
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: P319017
 CATALOG NUMBER: GAN-SA3D-730-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2182.5	2182.5	2182.5	2182.5	2182.5	2182.5	2182.5	2182.5	2182.5	2182.5	2182.5
2.5°	2181.0	2178.1	2168.6	2161.2	2159.8	2155.4	2151.7	2153.9	2156.8	2157.6	2157.6
5°	2180.3	2172.2	2159.8	2154.6	2161.2	2170.0	2181.0	2195.7	2204.5	2211.1	2215.5
7.5°	2215.5	2200.1	2186.1	2183.2	2196.4	2219.9	2244.8	2275.6	2296.8	2311.5	2314.4
10°	2274.1	2255.1	2241.1	2244.1	2267.5	2301.2	2336.4	2376.0	2408.3	2428.1	2429.5
12.5°	2341.6	2323.2	2310.0	2322.5	2361.4	2402.4	2439.1	2473.5	2502.9	2522.6	2522.6
15°	2419.3	2406.1	2390.7	2419.3	2472.1	2508.7	2524.1	2541.0	2557.1	2571.8	2568.8
17.5°	2494.1	2481.6	2473.5	2507.3	2562.2	2579.1	2568.8	2556.4	2556.4	2564.4	2565.9
20°	2558.6	2547.6	2552.7	2585.7	2614.3	2596.7	2558.6	2519.0	2502.9	2507.3	2511.7
22.5°	2615.0	2609.9	2625.3	2640.7	2620.2	2558.6	2488.2	2434.7	2414.9	2413.4	2414.9
25°	2681.0	2680.3	2699.3	2671.5	2580.6	2466.9	2372.4	2320.3	2309.3	2318.1	2332.8
27.5°	2763.1	2771.2	2780.7	2678.8	2499.9	2328.4	2232.3	2196.4	2207.4	2228.7	2242.6
30°	2867.9	2889.9	2869.4	2660.5	2384.1	2170.0	2078.4	2068.1	2098.2	2128.2	2142.9
32.5°	2969.8	3004.3	2954.5	2612.8	2234.5	2002.1	1931.0	1928.1	1964.7	1994.1	2014.6
35°	3052.0	3120.1	3018.2	2518.2	2061.5	1847.4	1795.4	1775.6	1788.8	1823.3	1846.7
37.5°	3159.0	3272.6	3062.2	2373.8	1873.8	1719.9	1659.0	1613.6	1601.9	1615.8	1627.5
40°	3354.7	3505.0	3082.7	2172.2	1690.6	1592.3	1530.7	1464.0	1417.8	1384.1	1384.9
42.5°	3674.4	3807.8	3069.6	1927.4	1521.2	1467.7	1398.0	1321.1	1246.3	1170.1	1164.2
45°	4193.4	4257.9	3030.0	1667.8	1372.4	1337.2	1272.0	1195.0	1095.3	1008.8	1000.7
47.5°	5024.0	4881.1	2968.4	1441.3	1241.2	1226.5	1166.4	1077.7	972.1	902.5	896.6
50°	6156.7	5780.6	2938.3	1261.0	1125.3	1129.7	1080.6	986.8	887.1	835.8	829.9
52.5°	7511.5	6828.2	2996.2	1121.7	1032.2	1047.6	1011.0	923.0	839.4	799.1	793.2
55°	8916.9	7913.2	3058.6	1020.5	944.3	974.3	961.8	889.3	813.8	776.4	771.2
57.5°	10119.9	8723.3	2933.9	938.4	865.8	912.7	923.7	868.0	800.6	766.8	761.0
60°	10877.2	9049.6	2607.0	861.4	803.5	863.6	901.7	862.1	805.7	802.8	798.4
62.5°	11236.4	9021.0	2116.5	800.6	764.6	842.3	917.9	895.1	864.3	890.7	892.9
65°	11075.2	8589.9	1576.2	760.2	736.8	850.4	966.2	957.4	881.2	907.6	911.3
67.5°	10013.6	7561.3	1167.1	725.1	706.0	873.1	1054.2	978.0	848.2	867.3	855.5
70°	8093.6	5994.7	900.3	685.5	674.5	870.2	1093.8	965.5	812.3	816.7	785.2
72.5°	5581.2	4087.8	732.4	648.8	629.0	793.2	1065.9	934.7	782.2	748.5	706.7
75°	3035.1	2194.2	622.4	610.7	549.1	696.5	1014.6	912.7	755.1	710.4	686.9
77.5°	1194.2	910.5	540.3	558.6	480.2	615.1	957.4	870.9	717.7	659.1	647.3
80°	487.5	464.8	447.9	483.1	412.7	538.1	888.5	821.8	673.0	611.4	588.0
82.5°	276.4	288.8	348.2	381.2	335.0	495.6	855.5	782.2	619.5	547.6	519.8
85°	141.5	169.3	242.7	273.5	246.3	421.5	788.1	684.7	497.1	419.3	421.5
87.5°	68.2	94.6	153.2	171.5	159.8	305.0	588.7	496.3	387.1	306.4	296.9
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)