

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: P193191

Luminaire Tested: **GAN-AF-03-LED-U-T3-7030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-T3-7030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17578.7 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

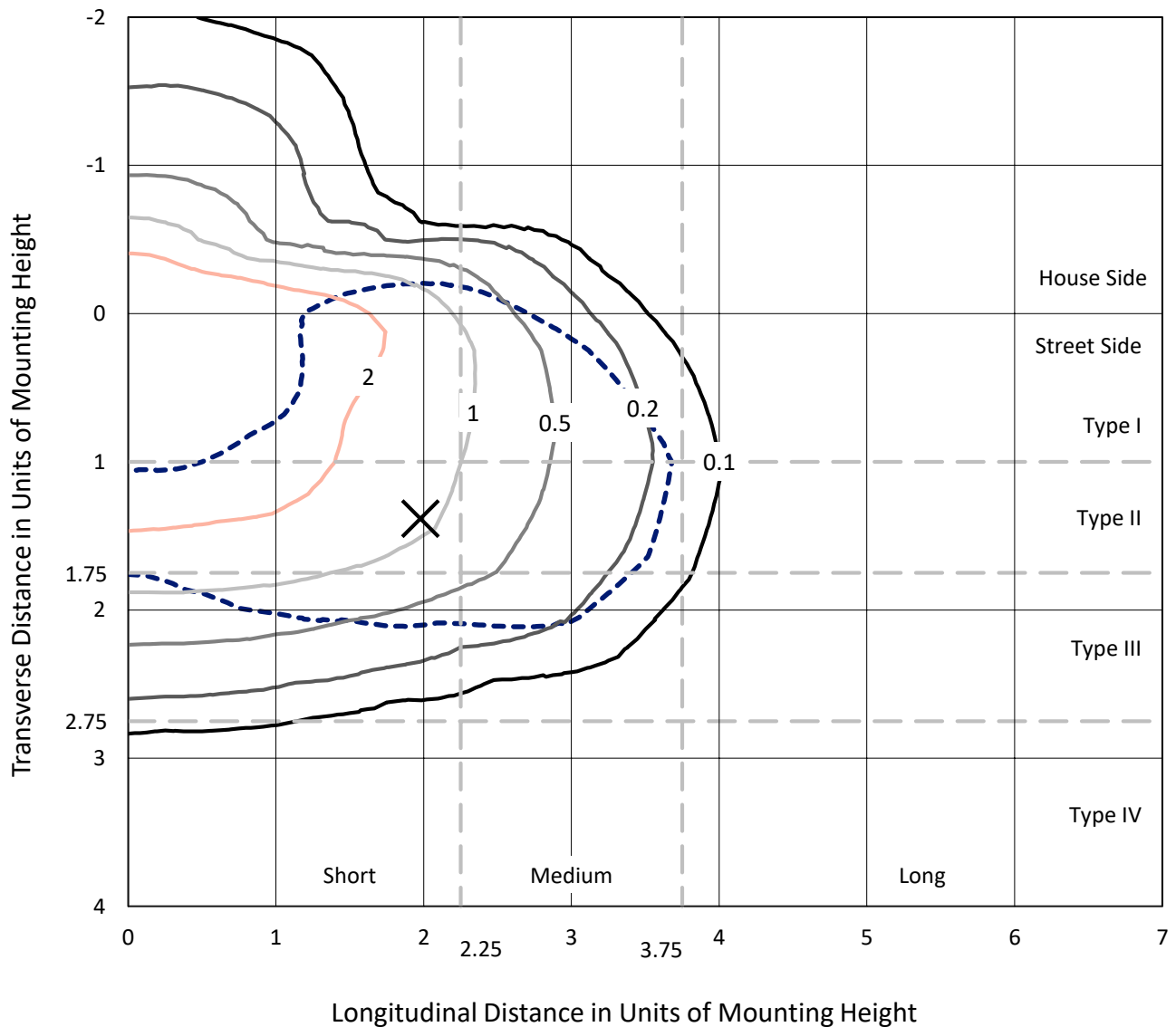
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

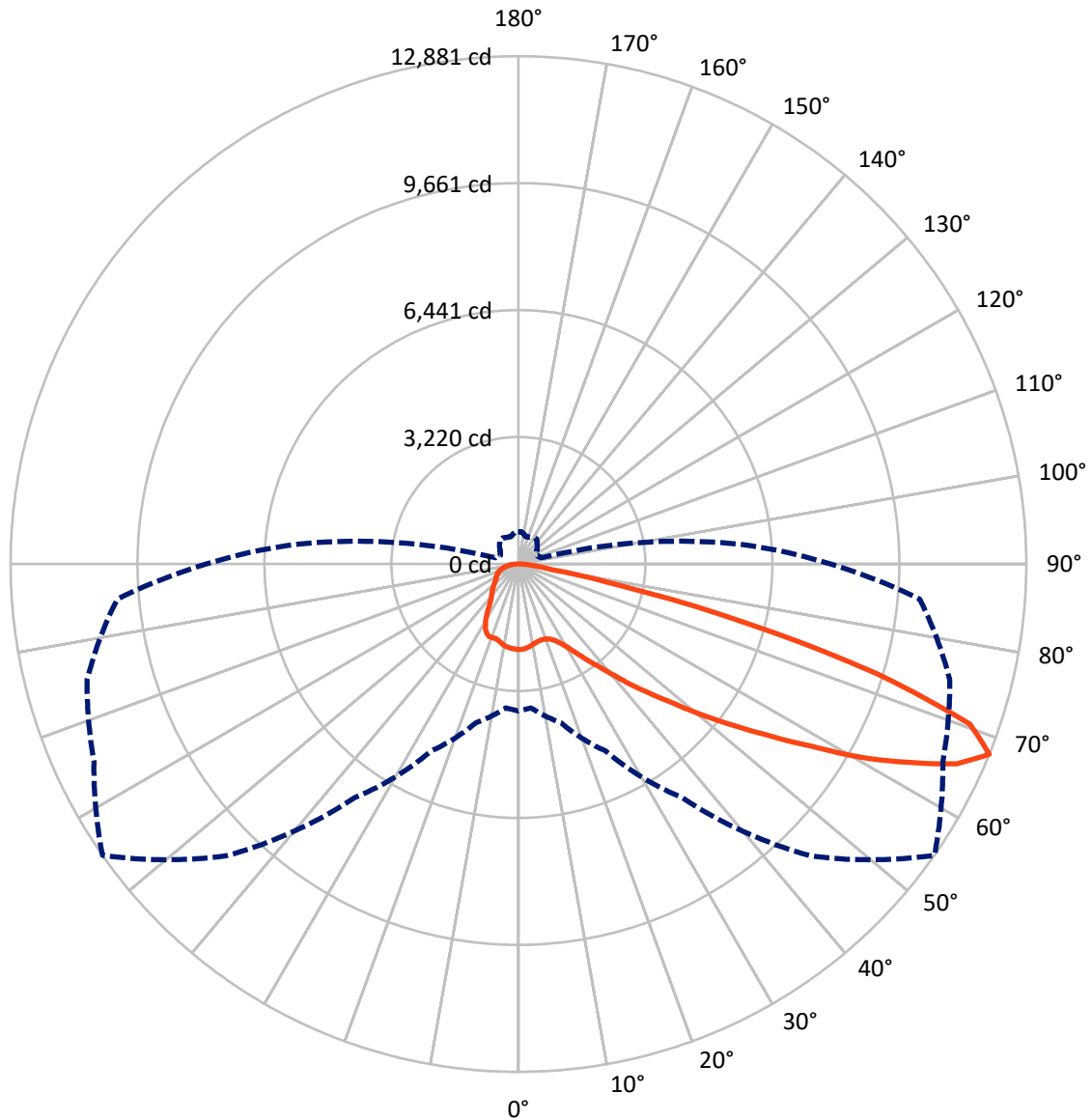
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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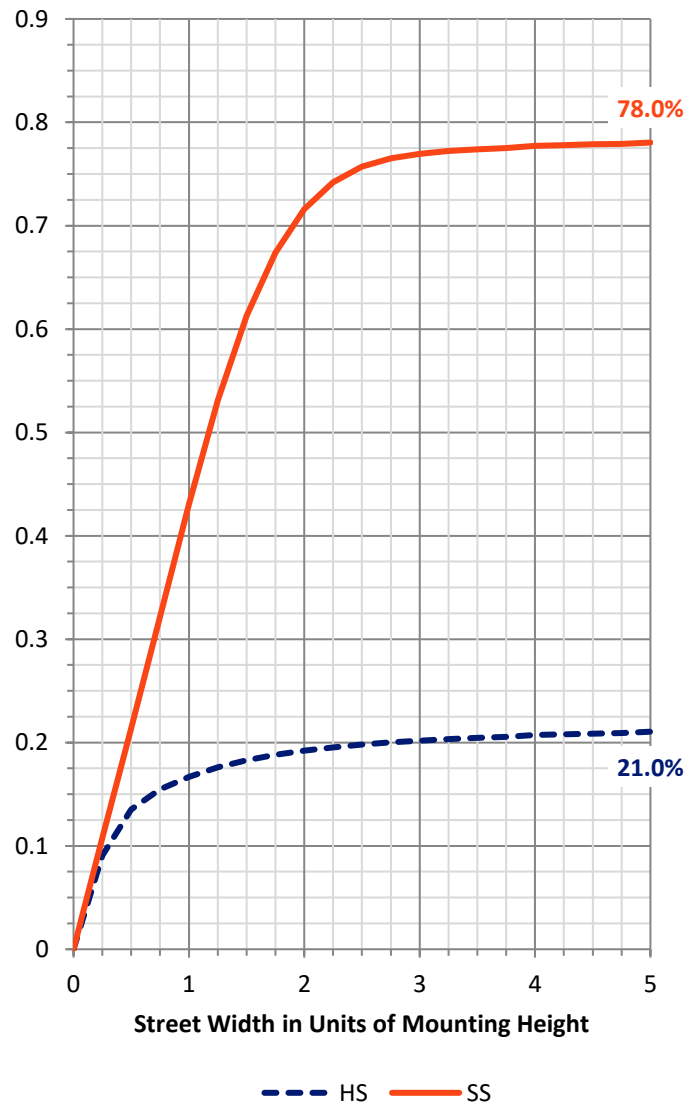
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3797.4	0.0	3797.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	13781.3	0.0	13781.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	17578.7	0.0	17578.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	1.2
10°-20°	573.0	3.3
20°-30°	959.9	5.5
30°-40°	1578.5	9.0
40°-50°	2657.0	15.1
50°-60°	4182.0	23.8
60°-70°	4990.7	28.4
70°-80°	2143.1	12.2
80°-90°	292.2	1.7
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°	17578.7	100.0
0°-180°	17578.7	100.0



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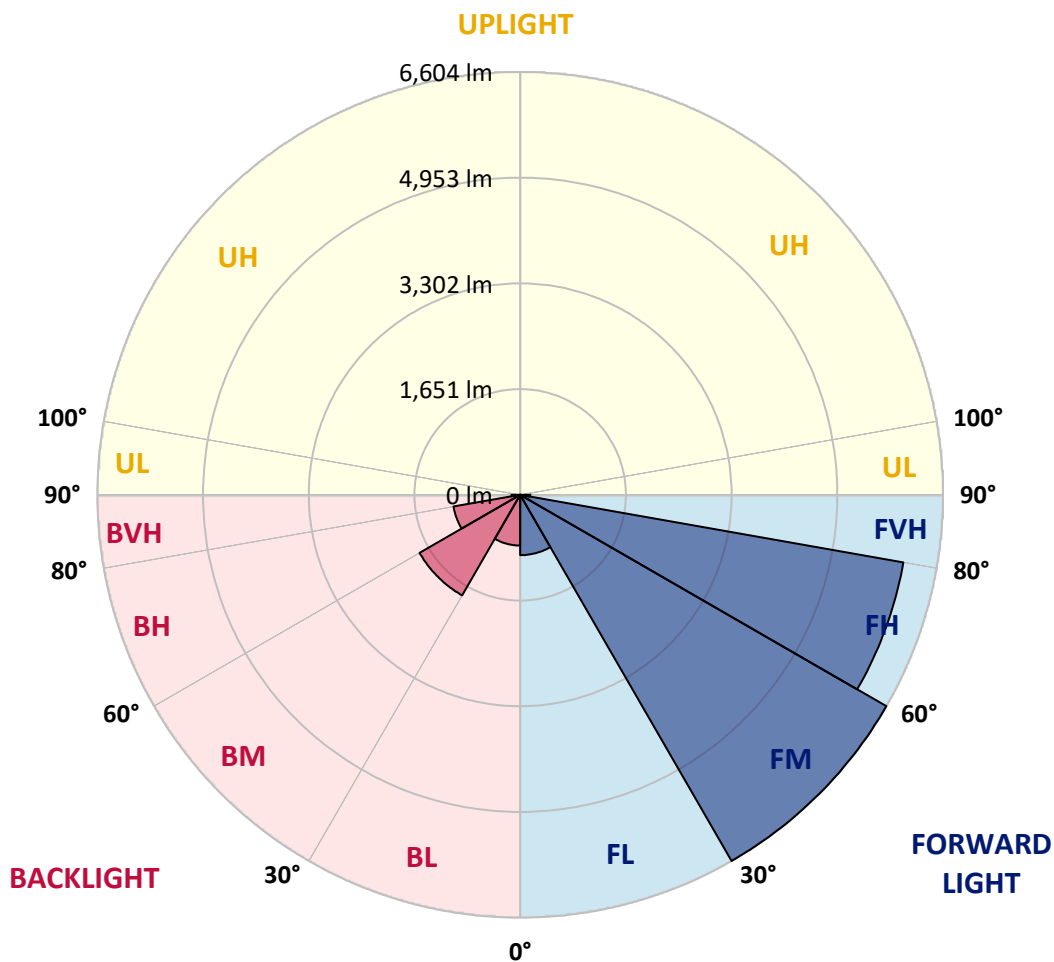
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	942.3	5.4			
FM	(30°-60°)	6603.9	37.6			
FH	(60°-80°)	6077.0	34.6			G3/7500
FVH	(80°-90°)	158.2	0.9			G2/225
BL	(0°-30°)	793.0	4.5	B2/1000		
BM	(30°-60°)	1813.6	10.3	B2/2500		
BH	(60°-80°)	1056.8	6.0	B3/2500		G3/2500
BVH	(80°-90°)	134.0	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2167.6	2167.6	2167.6	2167.6	2167.6	2167.6	2167.6	2167.6	2167.6	2167.6	2167.6
2.5°	2149.0	2149.7	2151.6	2158.3	2164.2	2162.6	2163.5	2160.0	2159.2	2154.0	2159.2
5°	2121.9	2124.3	2125.2	2136.2	2143.0	2144.8	2142.1	2137.9	2132.8	2127.8	2130.3
7.5°	2059.9	2066.6	2067.5	2082.7	2093.7	2108.2	2109.0	2109.9	2107.4	2104.0	2109.0
10°	2020.7	2022.5	2021.7	2032.7	2041.2	2057.3	2066.6	2082.7	2089.6	2091.2	2094.6
12.5°	2018.2	2016.5	2013.9	2013.9	2011.5	2018.2	2035.2	2058.1	2074.3	2079.3	2083.6
15°	2045.4	2044.6	2036.0	2023.3	2007.2	2002.0	2016.5	2041.9	2063.3	2074.3	2078.5
17.5°	2106.5	2101.4	2087.8	2059.0	2024.1	2010.6	2012.2	2033.6	2058.1	2072.5	2076.8
20°	2218.6	2218.6	2189.8	2135.4	2073.4	2041.2	2025.8	2038.6	2062.4	2081.9	2087.8
22.5°	2412.2	2413.9	2365.5	2276.3	2171.8	2103.1	2064.9	2062.4	2090.3	2112.4	2119.3
25°	2686.4	2679.6	2611.8	2484.3	2325.6	2211.9	2145.6	2130.3	2154.0	2178.7	2187.2
27.5°	3005.7	2981.0	2900.4	2746.7	2541.3	2374.9	2272.9	2248.3	2271.3	2299.3	2307.8
30°	3321.5	3296.1	3200.1	3032.0	2803.6	2593.0	2447.0	2407.1	2439.3	2479.2	2484.3
32.5°	3637.3	3637.3	3530.3	3334.3	3085.5	2853.8	2678.8	2631.2	2684.7	2733.1	2744.1
35°	4015.2	4016.9	3913.3	3677.2	3409.9	3164.4	2971.8	2936.9	3017.5	3051.5	3077.9
37.5°	4479.6	4489.0	4355.6	4070.4	3777.4	3519.3	3290.2	3242.6	3323.2	3415.8	3500.6
40°	4981.4	4993.3	4846.4	4494.9	4202.0	3932.0	3684.1	3598.4	3732.6	3909.1	4018.5
42.5°	5460.3	5521.4	5379.6	5017.9	4702.9	4423.6	4172.3	4047.5	4215.6	4482.2	4577.3
45°	6152.3	6196.4	5949.3	5621.6	5325.3	5012.9	4680.0	4548.5	4783.6	5119.8	5139.3
47.5°	6613.4	6580.2	6454.6	6250.7	6063.2	5771.1	5270.1	5125.8	5438.3	5833.9	5724.3
50°	6858.7	6868.9	6851.8	6863.7	6870.6	6687.2	5993.5	5795.6	6168.4	6646.5	6394.3
52.5°	7087.9	7020.0	7076.0	7354.6	7690.8	7622.9	6780.6	6574.2	6951.3	7548.1	7102.4
55°	7082.8	6979.3	7161.8	7653.4	8382.8	8460.9	7664.4	7426.7	7779.0	8515.2	7852.9
57.5°	6832.4	6837.5	7118.5	7762.1	8865.1	9248.8	8690.2	8333.5	8657.0	9495.0	8538.2
60°	6487.7	6534.4	6939.4	7744.3	9251.3	9894.9	9948.4	9310.7	9517.1	10385.7	9105.3
62.5°	5931.5	5980.8	6539.5	7559.2	9192.7	10517.3	11086.2	10419.6	10416.2	10925.7	9271.7
65°	5054.5	5040.0	5626.8	6867.2	8701.2	10977.5	12216.3	11378.3	11093.8	10934.2	8937.2
67.5°	3727.4	3662.8	4166.4	5230.2	7232.3	10462.1	12881.1	11877.5	11324.7	10215.0	7915.0
70°	1934.1	1869.7	2277.2	3054.1	4756.4	8165.4	12144.9	11619.4	10814.5	8562.7	6200.7
72.5°	827.0	815.9	981.4	1339.8	2301.0	4709.7	9523.0	10057.1	9279.4	6379.8	4263.1
75°	556.1	552.8	614.7	730.2	1035.0	1911.3	5959.5	7138.9	6789.1	3955.7	2397.7
77.5°	436.4	432.1	468.7	524.8	670.8	754.0	2644.8	3832.7	3547.3	1721.9	1049.4
80°	341.3	337.9	360.9	391.3	482.3	475.5	870.2	1524.9	1180.2	659.7	510.2
82.5°	269.1	269.1	287.8	288.7	342.2	324.4	454.3	671.6	589.2	384.6	312.5
85°	246.3	246.3	265.7	215.7	223.3	204.7	281.9	398.2	373.5	157.9	135.8
87.5°	124.0	120.5	223.3	190.9	121.4	108.7	137.5	192.8	207.1	87.4	68.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2167.6	2167.6	2167.6	2167.6	2167.6	2167.6	2167.6	2167.6	2167.6	2167.6
2.5°	2157.5	2156.6	2158.3	2159.2	2165.9	2175.3	2179.5	2185.5	2188.9	2187.2
5°	2131.9	2133.8	2140.5	2145.6	2157.5	2172.7	2181.3	2188.0	2193.9	2191.4
7.5°	2110.8	2115.0	2125.2	2129.5	2136.2	2140.5	2139.7	2142.1	2147.3	2141.4
10°	2098.9	2104.0	2111.7	2105.7	2089.6	2066.6	2045.4	2034.3	2037.8	2033.6
12.5°	2087.0	2093.7	2087.8	2059.9	2014.8	1985.1	1969.0	1970.7	1978.3	1980.0
15°	2080.2	2082.7	2057.3	2004.6	1958.8	1954.5	1963.1	1961.3	1962.2	1962.2
17.5°	2080.2	2073.4	2025.8	1973.2	1953.7	1946.0	1919.6	1886.6	1872.1	1867.1
20°	2091.2	2073.4	2015.7	1980.9	1938.4	1873.0	1803.5	1742.2	1715.2	1707.5
22.5°	2124.3	2093.7	2044.6	1984.2	1863.6	1754.1	1643.8	1570.7	1521.6	1513.0
25°	2191.4	2157.5	2101.4	1939.3	1744.9	1588.6	1463.0	1381.5	1332.2	1325.5
27.5°	2308.5	2286.5	2131.9	1839.9	1586.9	1419.6	1303.4	1240.5	1203.9	1201.5
30°	2485.2	2474.1	2116.7	1693.0	1392.5	1255.7	1199.6	1163.2	1136.1	1135.2
32.5°	2767.1	2678.0	2066.6	1513.9	1215.0	1139.5	1116.5	1094.4	1073.3	1073.3
35°	3129.6	2842.6	1971.5	1322.0	1107.2	1074.9	1046.0	1011.2	983.3	981.4
37.5°	3555.9	2944.5	1800.8	1167.4	1056.2	1031.6	989.2	937.3	888.2	879.6
40°	3986.4	2975.1	1560.5	1072.4	1024.0	988.4	936.5	875.3	827.8	825.2
42.5°	4381.2	2916.5	1305.8	1007.0	991.7	944.1	889.8	835.5	798.1	797.3
45°	4712.3	2764.6	1091.9	945.0	957.7	904.2	855.8	811.7	782.9	777.0
47.5°	5023.8	2549.7	941.6	879.6	923.8	882.2	841.4	799.8	771.8	767.5
50°	5385.6	2317.9	836.3	815.9	894.1	874.5	853.4	810.0	763.2	758.3
52.5°	5823.7	2117.6	754.0	759.9	871.2	884.7	883.9	838.9	757.3	750.6
55°	6312.8	1895.1	691.9	714.0	861.8	903.3	891.5	866.0	762.4	752.2
57.5°	6794.2	1635.3	648.7	679.3	848.2	901.7	855.0	818.5	774.3	759.9
60°	7155.1	1286.3	615.5	648.7	818.5	873.6	815.1	766.7	771.8	760.8
62.5°	7178.8	994.3	575.7	622.3	773.4	845.6	788.8	743.7	782.9	772.7
65°	6756.8	751.3	537.4	591.0	725.1	827.8	763.2	731.1	805.8	794.8
67.5°	5688.7	604.5	505.3	558.7	676.8	790.5	740.3	719.2	826.1	806.6
70°	4106.9	515.3	473.7	519.6	633.3	748.0	720.0	697.9	771.0	740.3
72.5°	2528.5	446.7	438.1	467.8	600.3	703.8	689.4	658.1	694.6	669.9
75°	1262.6	387.3	398.2	417.0	553.6	653.8	638.5	607.1	612.2	607.1
77.5°	604.5	331.2	351.5	365.9	493.3	596.9	580.7	548.5	542.6	543.3
80°	383.0	276.8	296.3	306.5	440.7	530.7	514.5	482.3	550.2	510.2
82.5°	239.4	225.0	230.1	248.8	383.8	461.8	440.7	411.8	495.8	392.2
85°	132.4	157.2	163.9	180.0	295.4	386.3	365.2	328.6	294.7	289.5
87.5°	79.0	93.4	95.9	107.8	198.7	279.3	247.0	234.4	194.5	193.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)