

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: P318317

Luminaire Tested: **GAN-SA3B-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14594 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

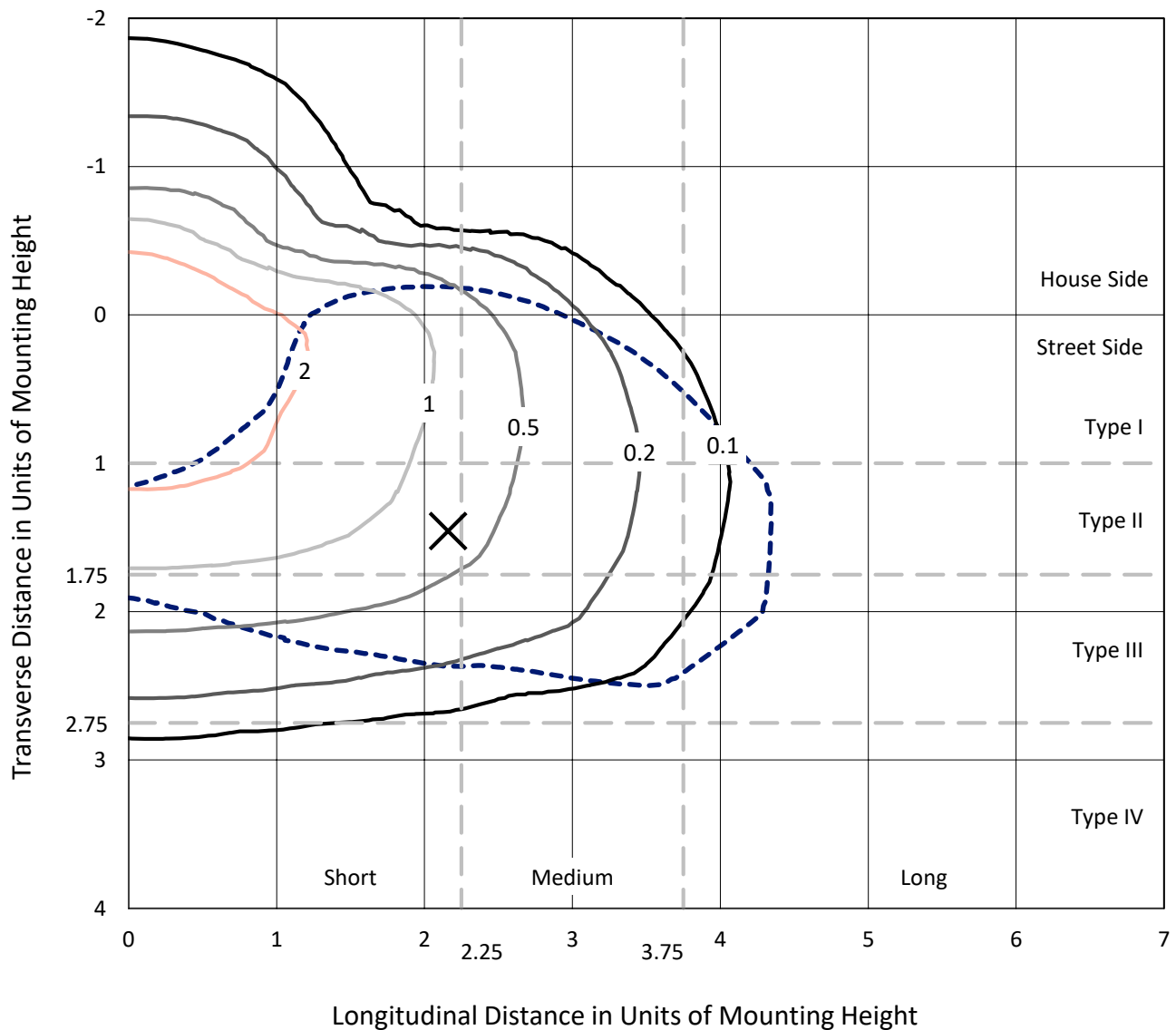
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

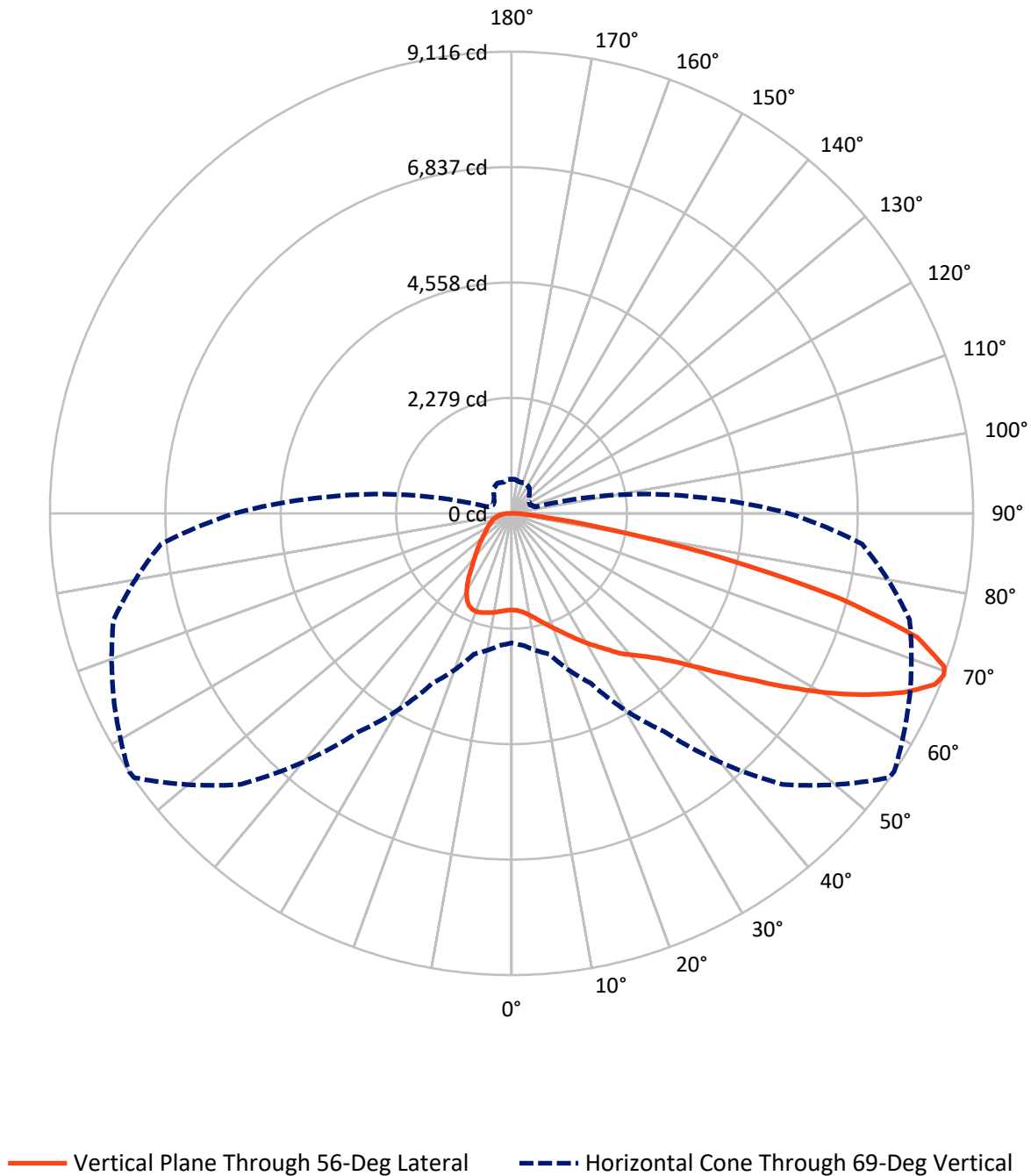
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3250.1	0.0	3250.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	11343.9	0.0	11343.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	14594.0	0.0	14594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.4	1.3
10°-20°	602.6	4.1
20°-30°	1051.9	7.2
30°-40°	1511.0	10.4
40°-50°	2091.1	14.3
50°-60°	3063.7	21.0
60°-70°	3735.3	25.6
70°-80°	2065.1	14.2
80°-90°	286.0	2.0
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°	14594.0	100.0
0°-180°	14594.0	100.0

Coefficient of Utilization



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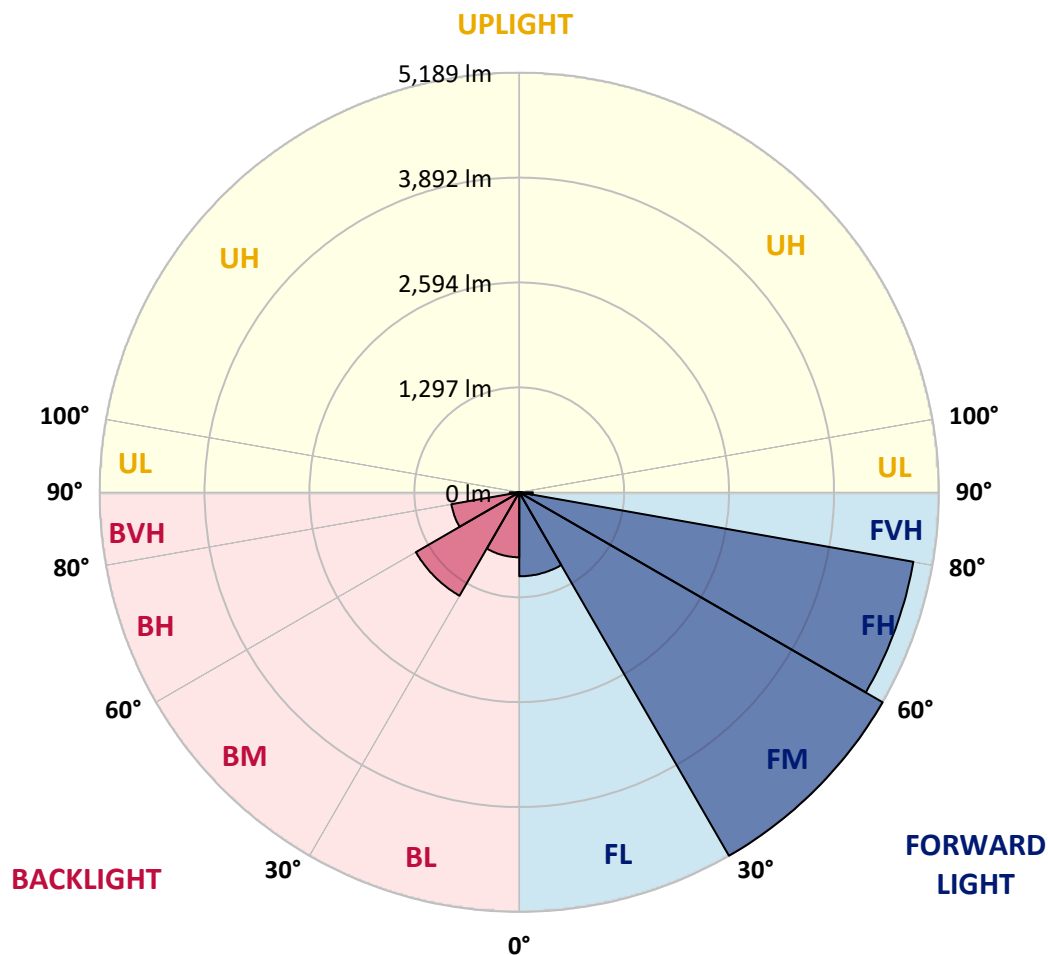
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1038.7	7.1			
FM	(30°-60°)	5188.7	35.6			
FH	(60°-80°)	4948.1	33.9			G2/5000
FVH	(80°-90°)	168.5	1.2			G2/225
BL	(0°-30°)	803.2	5.5	B2/1000		
BM	(30°-60°)	1477.1	10.1	B2/2500		
BH	(60°-80°)	852.3	5.8	B2/1000		G2/1000
BVH	(80°-90°)	117.5	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9
2.5°	1920.0	1922.0	1920.5	1924.5	1920.0	1923.0	1920.5	1920.5	1919.0	1914.5	1909.5
5°	1950.2	1954.2	1951.7	1955.7	1950.2	1951.2	1946.7	1946.7	1942.1	1932.6	1922.5
7.5°	1997.4	2002.0	1999.9	2004.0	1996.4	1996.4	1990.4	1989.9	1980.8	1965.3	1953.7
10°	2053.7	2059.8	2057.8	2063.8	2057.8	2059.8	2053.7	2053.7	2041.7	2019.6	2005.0
12.5°	2135.7	2143.2	2137.7	2137.2	2134.7	2138.7	2133.7	2132.7	2121.6	2091.5	2071.3
15°	2245.3	2253.3	2241.8	2240.8	2226.7	2225.2	2225.2	2223.7	2216.6	2180.4	2147.3
17.5°	2371.5	2374.0	2363.9	2347.9	2329.8	2318.2	2316.7	2320.7	2320.7	2278.5	2225.7
20°	2495.2	2499.7	2491.6	2473.5	2450.4	2433.3	2421.3	2429.3	2428.8	2378.5	2303.6
22.5°	2629.9	2640.5	2628.4	2605.3	2578.1	2559.0	2537.9	2544.9	2545.4	2483.6	2380.0
25°	2804.4	2794.8	2787.3	2754.6	2715.9	2696.3	2676.7	2683.7	2681.7	2596.7	2459.0
27.5°	2958.7	2960.7	2950.7	2916.0	2871.2	2828.0	2827.0	2831.5	2824.0	2714.4	2533.4
30°	3138.2	3139.2	3125.1	3093.9	3045.2	2989.4	2976.3	2983.8	2967.7	2826.0	2611.8
32.5°	3316.7	3321.7	3306.1	3268.4	3229.2	3161.3	3135.2	3140.2	3100.0	2940.1	2692.7
35°	3473.0	3480.1	3475.0	3449.9	3407.2	3348.8	3317.7	3314.6	3264.9	3079.9	2799.8
37.5°	3632.4	3638.9	3633.4	3612.3	3595.2	3533.3	3516.8	3516.8	3430.3	3222.6	2936.1
40°	3796.3	3806.3	3799.8	3770.6	3756.1	3727.9	3688.2	3678.6	3585.1	3394.1	3158.3
42.5°	3948.6	3961.7	3987.8	3970.7	3941.1	3945.1	3865.2	3860.1	3791.8	3647.5	3437.3
45°	4164.8	4183.9	4228.1	4215.1	4209.0	4186.9	4091.9	4087.4	4061.2	3988.3	3783.7
47.5°	4400.6	4426.7	4506.7	4509.2	4574.0	4532.3	4403.1	4387.5	4393.6	4396.6	4206.5
50°	4617.8	4646.4	4777.7	4839.5	4992.3	5001.4	4794.8	4780.7	4804.3	4873.7	4699.2
52.5°	4791.2	4827.4	4991.3	5182.4	5444.3	5518.7	5276.9	5266.3	5283.9	5403.6	5256.3
55°	4918.4	4957.6	5136.1	5484.0	5902.3	6033.5	5831.9	5821.9	5832.9	5985.3	5862.1
57.5°	4948.1	4957.6	5216.6	5687.1	6288.9	6604.2	6511.1	6491.0	6436.7	6569.5	6530.8
60°	4808.8	4847.0	5150.2	5758.5	6588.1	7166.7	7221.0	7195.9	7043.6	7152.2	7121.0
62.5°	4526.3	4594.7	4902.3	5649.9	6705.2	7626.3	7917.3	7887.2	7624.7	7695.1	7545.3
65°	4064.8	4093.9	4417.2	5275.4	6556.4	7920.4	8538.2	8523.2	8192.9	8082.8	7623.7
67.5°	3239.2	3294.0	3568.5	4492.6	5947.6	7885.7	9018.4	9016.9	8563.9	8226.5	7345.7
69°	2559.0	2615.8	2877.3	3700.8	5262.8	7568.4	9098.8	9116.4	8668.5	8139.1	6948.5
70°	2040.2	2106.0	2285.5	3117.1	4655.0	7150.1	9031.9	9063.6	8648.3	7994.8	6582.0
72.5°	868.3	921.5	1049.2	1606.8	2837.0	5339.2	8258.2	8377.9	8182.3	7317.1	5439.8
75°	379.1	395.7	453.5	655.1	1259.4	2905.9	6469.4	6690.6	6996.3	6184.9	4052.2
77.5°	277.5	284.6	316.2	384.6	565.1	1097.5	4160.3	4289.0	5045.6	4500.6	2485.6
80°	214.7	219.7	244.3	282.5	369.0	443.9	1897.4	2008.0	2837.0	2311.7	1035.2
82.5°	170.9	174.5	191.5	208.1	254.9	269.0	629.9	698.8	1047.2	638.5	274.0
85°	158.9	162.9	168.9	151.8	163.4	157.9	272.5	285.1	316.2	250.9	114.6
87.5°	71.9	85.0	167.4	118.1	87.0	69.4	111.6	116.6	131.2	131.7	50.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9	1907.9
2.5°	1912.5	1911.0	1913.5	1907.4	1915.0	1914.5	1912.0	1913.0	1918.0	1917.5	1918.0
5°	1924.0	1923.0	1926.0	1921.5	1930.6	1933.6	1934.1	1938.6	1944.1	1945.7	1945.7
7.5°	1953.2	1953.2	1954.7	1948.7	1954.7	1954.2	1951.7	1956.2	1961.7	1962.2	1961.7
10°	2003.5	2004.0	2001.5	1985.9	1980.8	1967.3	1954.7	1955.2	1962.2	1967.8	1969.3
12.5°	2066.8	2064.8	2053.7	2025.1	2004.0	1976.3	1963.2	1962.7	1969.8	1974.3	1975.8
15°	2139.2	2133.7	2105.0	2058.3	2021.1	1993.9	1972.8	1967.8	1963.8	1958.7	1959.2
17.5°	2207.6	2195.0	2147.3	2082.4	2043.2	2007.0	1966.3	1933.6	1911.0	1897.9	1893.9
20°	2277.0	2252.3	2183.5	2105.0	2055.3	1989.4	1911.0	1844.6	1803.4	1784.3	1780.7
22.5°	2340.3	2300.6	2217.1	2128.7	2045.7	1930.1	1806.9	1710.4	1653.1	1627.4	1629.4
25°	2402.2	2346.8	2252.3	2145.2	1997.4	1825.5	1662.1	1543.5	1477.1	1448.4	1447.4
27.5°	2456.4	2393.6	2290.5	2131.7	1907.4	1676.7	1490.7	1375.0	1319.7	1295.1	1291.1
30°	2518.8	2452.4	2341.3	2079.9	1775.7	1504.7	1323.2	1241.8	1202.6	1177.9	1173.4
32.5°	2594.7	2532.4	2383.0	1985.9	1607.3	1325.3	1192.5	1135.7	1100.0	1072.4	1067.3
35°	2705.3	2637.9	2393.6	1851.1	1422.3	1183.5	1096.5	1038.2	989.9	954.2	950.7
37.5°	2844.1	2770.2	2369.5	1676.7	1242.8	1091.5	1016.6	944.7	881.8	831.6	823.5
40°	3044.2	2932.6	2302.6	1475.6	1110.6	1020.6	938.6	856.7	778.8	719.9	708.4
42.5°	3284.5	3123.1	2200.0	1275.5	1013.5	948.7	861.2	759.7	685.3	643.5	637.5
45°	3590.2	3321.2	2057.8	1100.5	918.0	876.8	777.8	684.2	638.0	607.3	602.3
47.5°	3939.1	3543.4	1908.4	958.2	837.1	809.4	710.9	650.6	613.9	589.7	585.2
50°	4367.9	3794.3	1750.1	841.6	755.6	728.5	679.2	632.0	602.8	584.2	579.7
52.5°	4851.6	4077.3	1636.0	749.6	688.3	668.7	662.6	621.9	598.3	584.2	579.7
55°	5372.4	4365.4	1512.8	672.2	629.9	635.5	651.6	622.9	606.8	589.7	583.2
57.5°	5893.8	4663.0	1375.5	606.8	583.7	610.8	644.0	624.9	611.3	594.8	588.7
60°	6306.0	4851.6	1162.9	552.0	547.0	583.7	625.9	609.8	592.2	592.7	591.7
62.5°	6498.6	4841.5	928.1	503.3	510.3	547.0	596.8	586.2	571.6	591.2	592.7
65°	6390.5	4600.2	722.5	459.0	471.1	508.8	566.6	574.6	579.7	617.4	622.4
67.5°	5937.0	4130.6	559.6	420.3	435.4	482.6	569.6	625.9	632.5	672.2	671.7
69°	5467.9	3690.2	486.2	400.2	417.8	489.2	608.8	658.6	634.0	676.2	670.2
70°	5074.8	3341.8	446.9	386.6	409.7	500.7	635.0	658.1	626.4	662.6	652.6
72.5°	3908.4	2404.2	379.1	361.5	382.6	479.1	642.5	643.5	608.8	615.9	598.8
75°	2680.7	1519.3	330.8	327.3	341.4	431.9	618.4	614.9	563.1	553.0	539.0
77.5°	1478.1	771.7	281.0	294.6	304.2	382.6	562.1	557.0	514.3	493.2	488.2
80°	570.1	337.8	237.3	261.9	268.0	331.3	492.7	488.2	452.5	425.3	417.8
82.5°	215.2	177.0	196.1	226.7	224.7	273.5	417.3	414.8	380.1	340.4	328.3
85°	99.5	106.1	155.4	187.0	172.4	202.6	333.8	338.4	296.1	248.9	248.9
87.5°	42.2	59.3	110.1	141.3	116.1	136.7	244.8	233.8	214.7	148.8	139.8
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)