

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: P509217

Luminaire Tested: **VERD-CA2-130-730-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-130-730-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1180mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18019 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

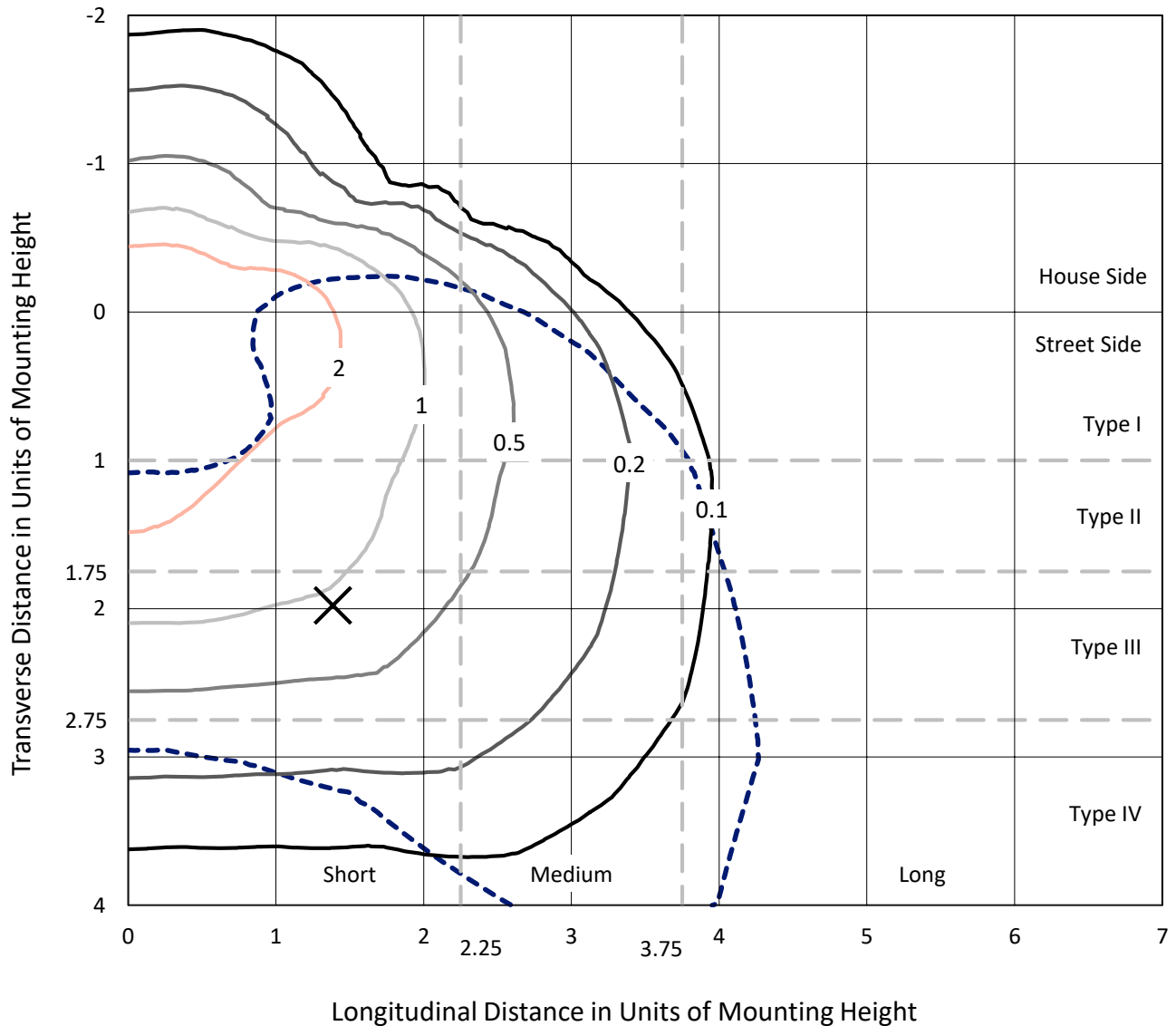
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

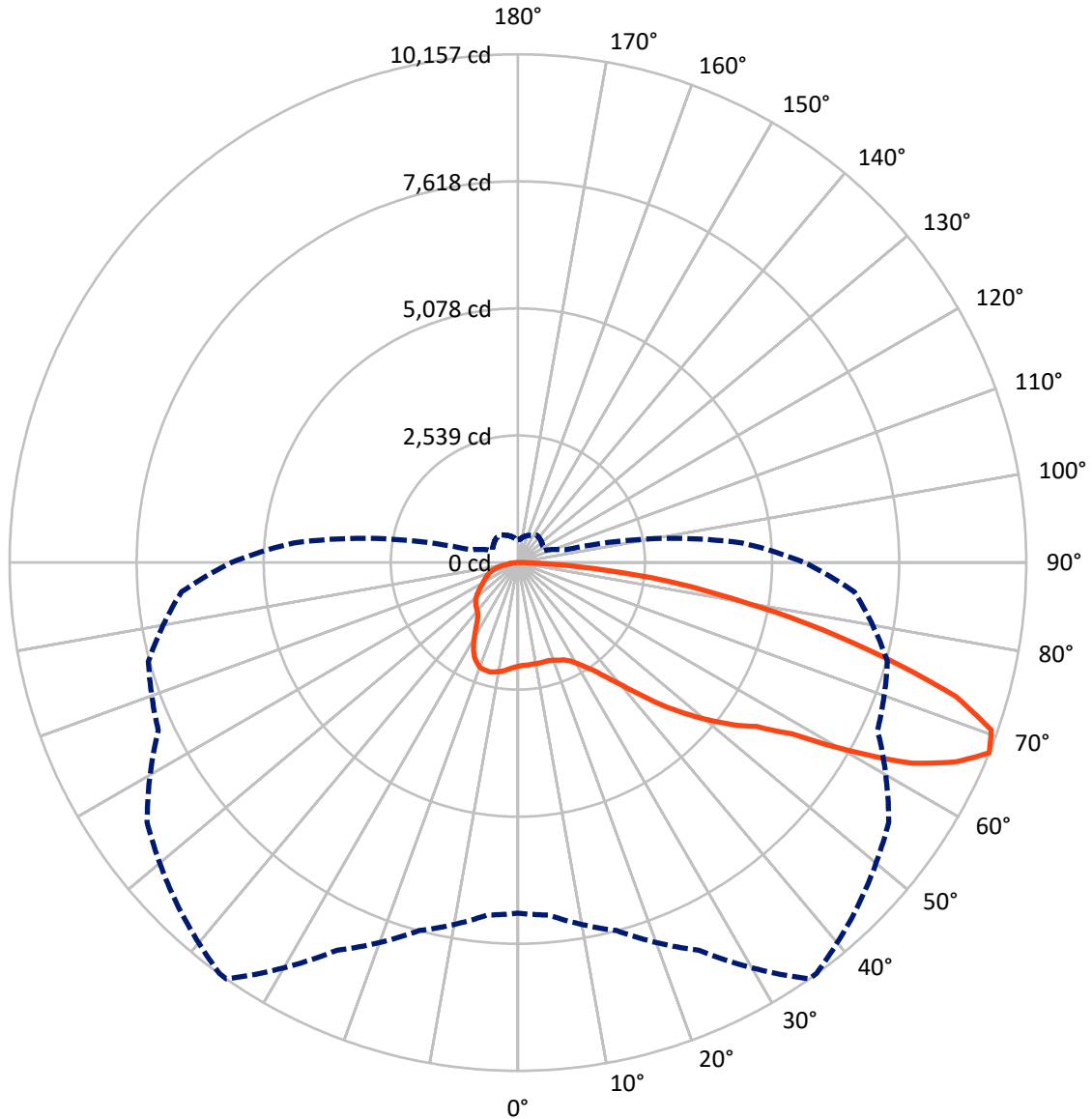
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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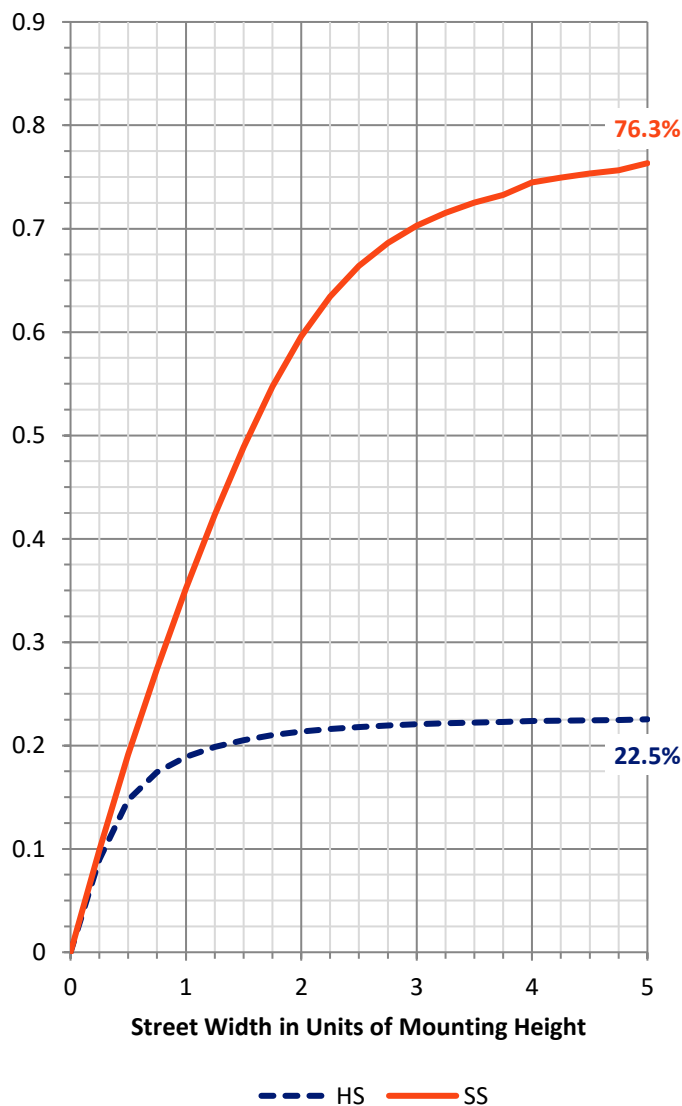
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4105.1	0.0	4105.1
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	13913.9	0.0	13913.9
	% Fixture	77.2	0.0	77.2
Total	Lumens	18019.0	0.0	18019.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.4	1.1
10°-20°	614.6	3.4
20°-30°	1025.8	5.7
30°-40°	1578.3	8.8
40°-50°	2601.1	14.4
50°-60°	3715.1	20.6
60°-70°	4625.6	25.7
70°-80°	3121.5	17.3
80°-90°	536.5	3.0
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°	18019.0	100.0
0°-180°	18019.0	100.0

Coefficient of Utilization



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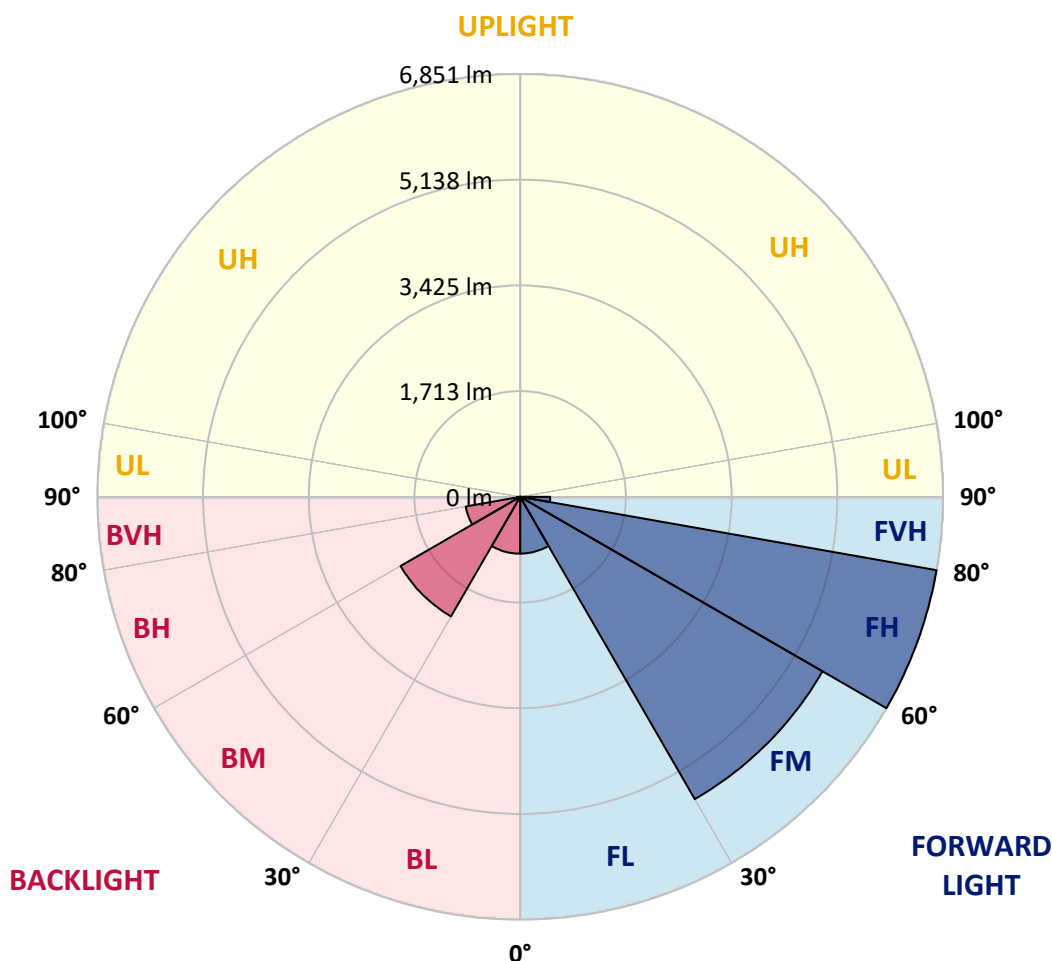
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	919.5	5.1			
FM (30°-60°)	5656.4	31.4			
FH (60°-80°)	6850.9	38.0			G3/7500
FVH (80°-90°)	487.0	2.7			G3/500
BL (0°-30°)	921.3	5.1	B2/1000		
BM (30°-60°)	2238.2	12.4	B2/2500		
BH (60°-80°)	896.1	5.0	B2/1000		G2/1000
BVH (80°-90°)	49.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6
2.5°	2041.5	2060.9	2059.0	2055.1	2057.0	2059.0	2049.2	2043.4	2051.2	2053.1	2062.8
5°	2039.5	2055.1	2053.1	2053.1	2059.0	2057.0	2041.5	2029.8	2043.4	2053.1	2062.8
7.5°	2037.6	2051.2	2051.2	2045.4	2049.2	2049.2	2041.5	2049.2	2049.2	2064.8	2076.4
10°	2035.7	2047.3	2047.3	2049.2	2055.1	2057.0	2057.0	2062.8	2084.2	2090.0	2113.3
12.5°	2012.3	2022.1	2029.8	2041.5	2053.1	2057.0	2066.7	2084.2	2111.4	2125.0	2152.2
15°	1992.9	2006.5	2020.1	2031.8	2049.2	2053.1	2074.5	2103.6	2132.8	2161.9	2202.7
17.5°	2000.7	2018.2	2033.7	2043.4	2057.0	2060.9	2082.3	2121.1	2167.7	2210.5	2266.8
20°	2018.2	2037.6	2053.1	2064.8	2082.3	2086.2	2103.6	2140.5	2200.8	2266.8	2330.9
22.5°	2060.9	2074.5	2092.0	2097.8	2117.2	2121.1	2132.8	2169.7	2247.4	2330.9	2412.5
25°	2099.8	2115.3	2128.9	2134.7	2156.1	2160.0	2181.3	2212.4	2303.7	2398.9	2517.4
27.5°	2150.3	2165.8	2183.3	2189.1	2226.0	2229.9	2239.6	2286.2	2377.5	2488.2	2635.9
30°	2247.4	2257.1	2276.5	2299.8	2336.7	2340.6	2362.0	2410.5	2476.6	2612.5	2808.7
32.5°	2395.0	2408.6	2400.8	2431.9	2486.3	2486.3	2560.1	2641.7	2723.3	2818.4	3078.7
35°	2678.6	2670.8	2663.1	2635.9	2668.9	2680.5	2783.5	2921.4	3148.7	3416.7	3673.1
37.5°	3030.2	3028.2	2987.4	2925.3	2923.3	2927.2	3020.5	3253.5	3614.8	4211.2	4487.0
40°	3570.2	3585.7	3442.0	3313.8	3241.9	3226.4	3300.2	3593.5	4079.1	4873.5	5061.9
42.5°	4110.1	4077.1	3960.6	3752.7	3632.3	3622.6	3636.2	3892.6	4529.7	5409.6	5477.6
45°	4588.0	4613.2	4430.6	4304.4	4083.0	4086.8	4026.6	4261.7	4976.5	5788.4	5800.1
47.5°	5075.5	5095.0	4867.7	4724.0	4512.2	4512.2	4417.1	4603.5	5374.7	6149.7	6126.4
50°	5596.1	5640.8	5355.2	5137.7	4943.4	4935.7	4906.5	5023.1	5767.0	6454.6	6361.4
52.5°	6299.3	6145.8	5875.8	5580.6	5388.3	5364.9	5337.8	5421.3	6217.7	6703.3	6512.9
55°	7025.7	6817.9	6542.1	6145.8	5782.6	5815.6	5747.6	5842.8	6631.4	7000.5	6711.0
57.5°	7466.6	7544.3	7394.8	7054.9	6456.6	6450.8	6194.4	6244.9	7002.4	7251.0	6920.8
60°	7930.9	8039.7	8140.7	7938.6	7655.1	7526.9	6868.4	6672.2	7420.0	7433.6	6897.5
62.5°	8173.7	8152.3	8591.3	8614.6	8834.1	8849.6	8206.7	7225.8	7666.7	7587.1	6979.1
65°	7740.5	7752.2	8474.8	8851.6	9607.2	9651.9	9416.8	8198.9	7874.5	7658.9	6885.9
67.5°	7006.3	7072.3	7614.3	8546.6	10156.9	10149.1	9640.2	9045.8	7928.9	7643.4	6749.9
70°	5730.1	5800.1	6355.6	7709.4	10036.5	9972.4	9545.0	9113.8	7882.3	7503.5	6072.0
72.5°	4395.7	4386.0	4960.9	6157.5	9150.7	9212.9	9057.5	8634.0	7658.9	6905.3	4974.5
75°	3098.2	3049.6	3560.4	4667.6	7546.3	7775.5	8305.8	8189.2	6814.0	5683.5	3325.4
77.5°	2033.7	2107.5	2515.4	3451.7	5934.1	6126.4	6858.7	6627.5	5042.5	3626.5	1200.4
80°	1291.7	1357.7	1688.0	2464.9	4314.1	4401.5	4999.8	4215.0	2694.1	1196.5	167.0
82.5°	784.7	794.4	1087.8	1666.6	2975.8	2975.8	3148.7	2356.1	1054.7	155.4	108.8
85°	417.6	440.9	586.6	899.3	1499.5	1612.2	1427.7	899.3	204.0	85.5	66.0
87.5°	132.1	134.0	192.3	347.7	322.4	332.2	110.7	46.6	23.3	15.5	13.6
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°	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6
2.5°	2066.7	2068.7	2080.3	2086.2	2088.1	2082.3	2095.9	2115.3	2109.5	2130.8	2123.1
5°	2066.7	2076.4	2092.0	2090.0	2105.6	2113.3	2128.9	2148.3	2142.5	2173.6	2161.9
7.5°	2082.3	2097.8	2109.5	2132.8	2144.4	2140.5	2175.5	2191.0	2183.3	2206.6	2194.9
10°	2121.1	2138.6	2154.1	2179.4	2196.9	2189.1	2208.5	2218.2	2204.6	2227.9	2222.1
12.5°	2165.8	2185.2	2216.3	2233.8	2247.4	2233.8	2233.8	2227.9	2208.5	2229.9	2216.3
15°	2216.3	2241.5	2284.3	2303.7	2299.8	2276.5	2255.1	2214.4	2161.9	2171.6	2152.2
17.5°	2284.3	2315.4	2363.9	2375.6	2360.0	2303.7	2247.4	2173.6	2080.3	2057.0	2041.5
20°	2358.1	2393.1	2461.0	2455.2	2420.2	2321.2	2231.8	2117.2	1971.6	1905.5	1874.4
22.5°	2459.1	2494.1	2558.2	2523.2	2451.3	2321.2	2169.7	2010.4	1837.5	1740.4	1719.0
25°	2569.8	2618.4	2645.6	2567.9	2443.6	2268.7	2086.2	1876.4	1654.9	1550.0	1528.7
27.5°	2705.8	2738.8	2711.6	2573.7	2404.7	2181.3	1950.2	1697.7	1485.9	1396.6	1365.5
30°	2865.1	2868.9	2762.1	2562.0	2317.3	2057.0	1783.1	1517.0	1353.9	1270.3	1250.9
32.5°	3076.8	3037.9	2806.8	2507.7	2198.8	1886.1	1596.7	1396.6	1260.6	1155.7	1128.5
35°	3628.4	3451.7	2905.9	2445.5	2055.1	1695.7	1435.4	1287.8	1173.2	1054.7	1033.4
37.5°	4343.2	4030.5	3080.7	2381.4	1891.9	1520.9	1328.6	1223.7	1126.6	994.5	965.4
40°	4879.3	4518.1	3350.7	2311.5	1742.3	1396.6	1270.3	1198.5	1091.6	971.2	940.1
42.5°	5289.2	4924.0	3628.4	2233.8	1602.5	1299.5	1229.5	1181.0	1078.0	965.4	940.1
45°	5572.8	5207.6	3867.3	2142.5	1423.8	1216.0	1198.5	1151.9	1052.8	944.0	918.8
47.5°	5860.3	5407.7	4001.4	2047.3	1274.2	1169.3	1153.8	1101.3	1010.1	907.1	887.7
50°	6110.8	5634.9	4116.0	1950.2	1155.7	1113.0	1103.3	1033.4	946.0	848.8	823.6
52.5°	6182.7	5689.3	4069.4	1944.4	1048.9	1052.8	1033.4	977.0	895.5	790.6	765.3
55°	6345.9	5840.8	3956.7	1765.7	946.0	959.6	955.7	926.5	850.8	753.7	734.2
57.5°	6415.8	5726.2	3793.5	1313.1	839.1	850.8	883.8	883.8	817.8	730.3	712.9
60°	6406.1	5730.1	3502.2	918.8	734.2	765.3	811.9	811.9	759.5	674.0	652.7
62.5°	6332.3	5582.5	3018.5	701.2	668.2	712.9	767.3	732.3	685.7	590.5	575.0
65°	6209.9	5176.5	2092.0	615.7	631.3	683.7	710.9	668.2	611.9	526.4	516.7
67.5°	5720.4	4496.7	973.1	563.3	600.2	641.0	664.3	604.1	545.8	468.1	456.5
70°	4869.6	3290.5	419.6	522.5	563.3	592.4	615.7	553.6	491.4	423.4	419.6
72.5°	3541.0	1755.9	349.6	458.4	501.1	532.2	561.4	499.2	439.0	359.3	359.3
75°	1705.4	291.4	301.1	380.7	419.6	481.7	495.3	407.9	339.9	273.9	268.1
77.5°	209.8	188.4	260.3	303.0	336.0	369.1	402.1	353.5	293.3	225.3	213.7
80°	132.1	132.1	205.9	211.7	229.2	264.2	295.2	275.8	231.1	130.1	120.4
82.5°	97.1	104.9	136.0	101.0	120.4	151.5	172.9	196.2	167.0	91.3	85.5
85°	62.2	68.0	64.1	50.5	66.0	101.0	137.9	136.0	112.7	68.0	64.1
87.5°	13.6	13.6	13.6	11.7	13.6	17.5	33.0	64.1	46.6	36.9	35.0
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)