

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: P399267

Luminaire Tested: **ARCH-L-PA3-120-727-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-120-727-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16433 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

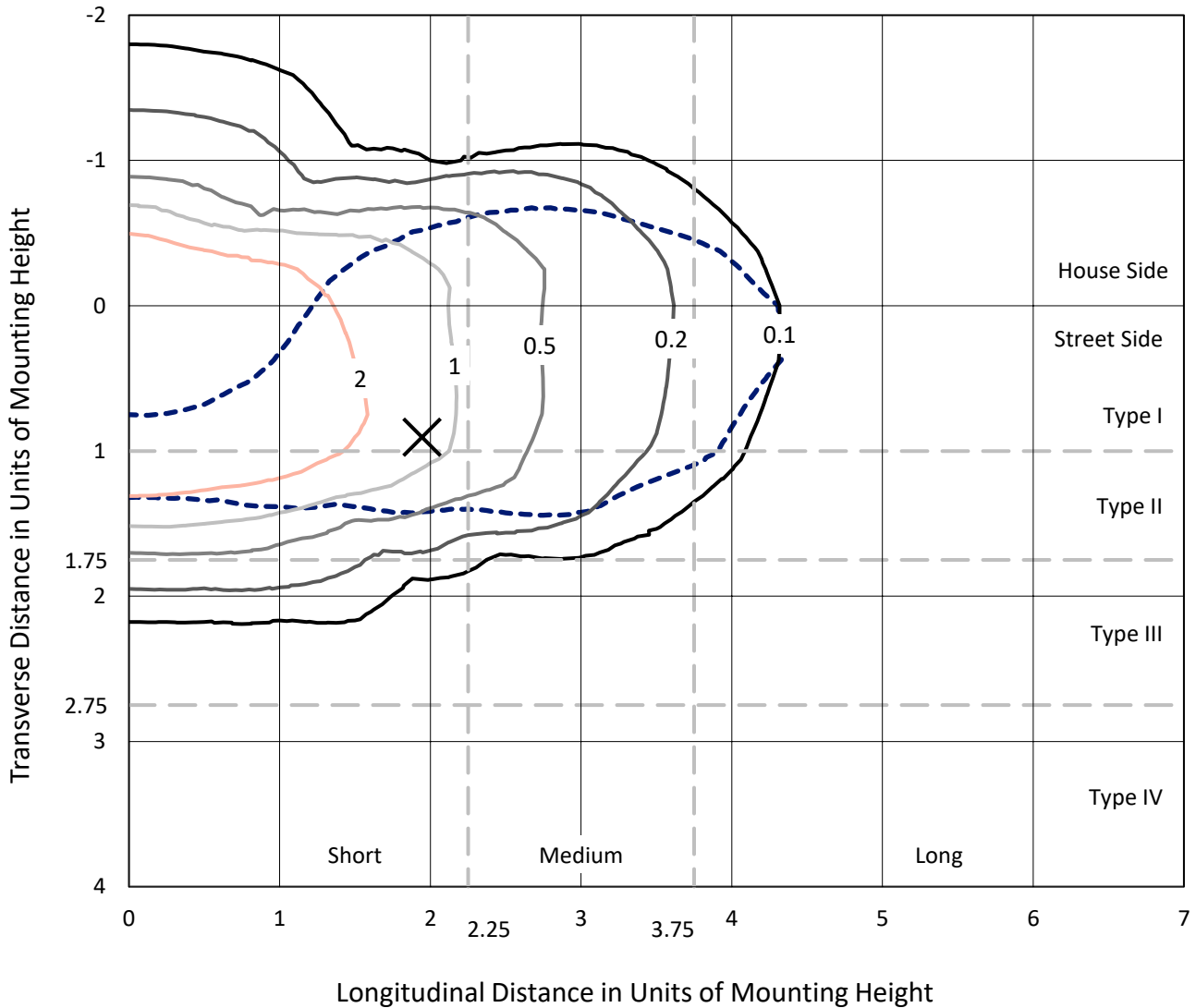
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

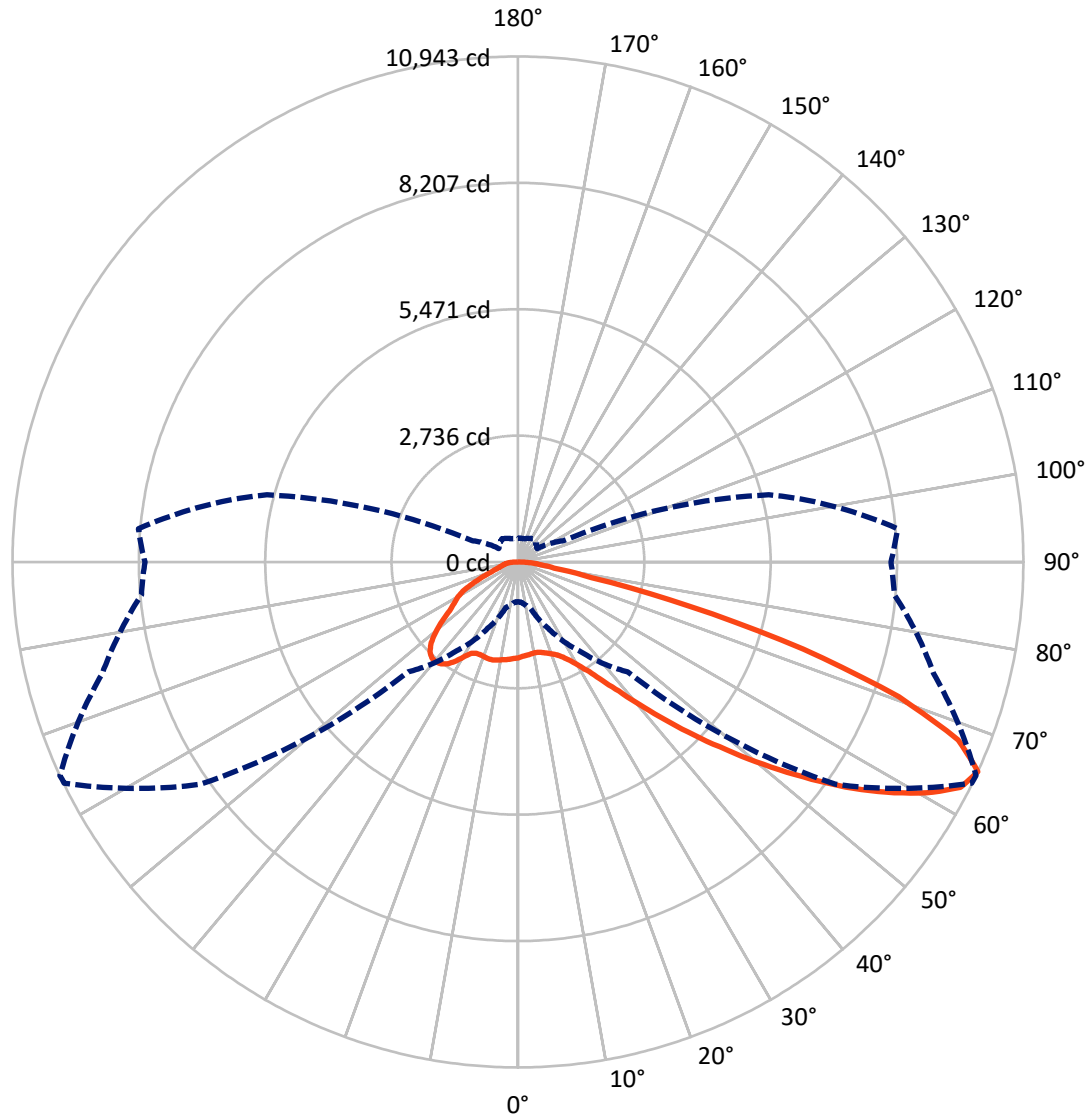
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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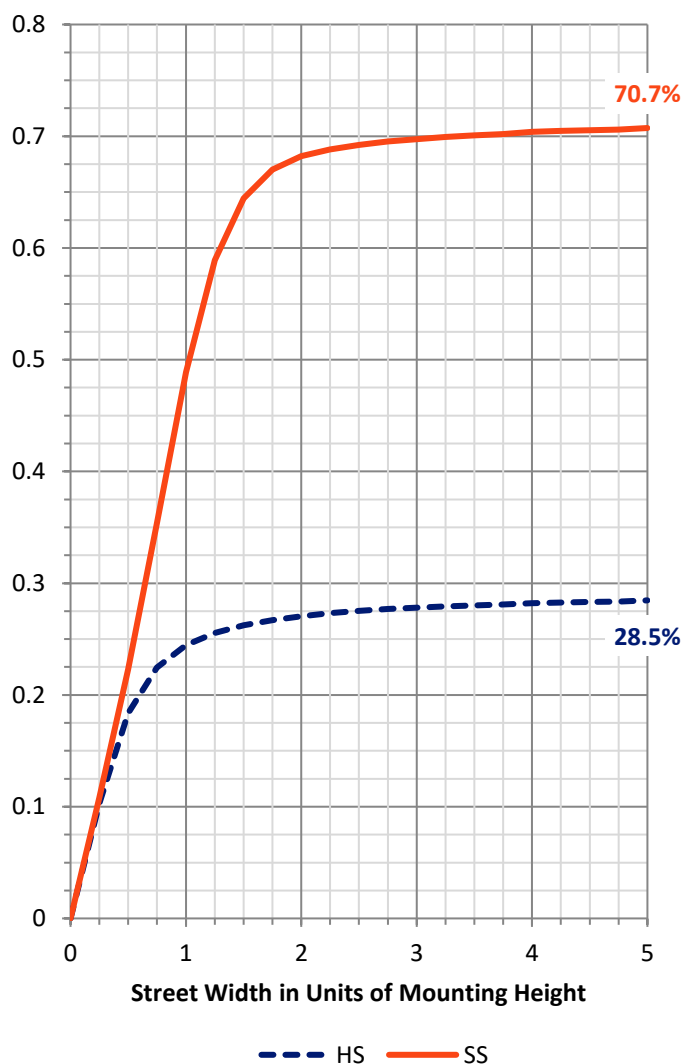
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4751.0	0.0	4751.0
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	11682.0	0.0	11682.0
	% Fixture	71.1	0.0	71.1
Total	Lumens	16433.0	0.0	16433.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.8	1.2
10°-20°	590.6	3.6
20°-30°	1049.1	6.4
30°-40°	1774.9	10.8
40°-50°	3089.7	18.8
50°-60°	3992.9	24.3
60°-70°	3494.0	21.3
70°-80°	1900.5	11.6
80°-90°	343.4	2.1
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°	16433.0	100.0
0°-180°	16433.0	100.0

Coefficient of Utilization



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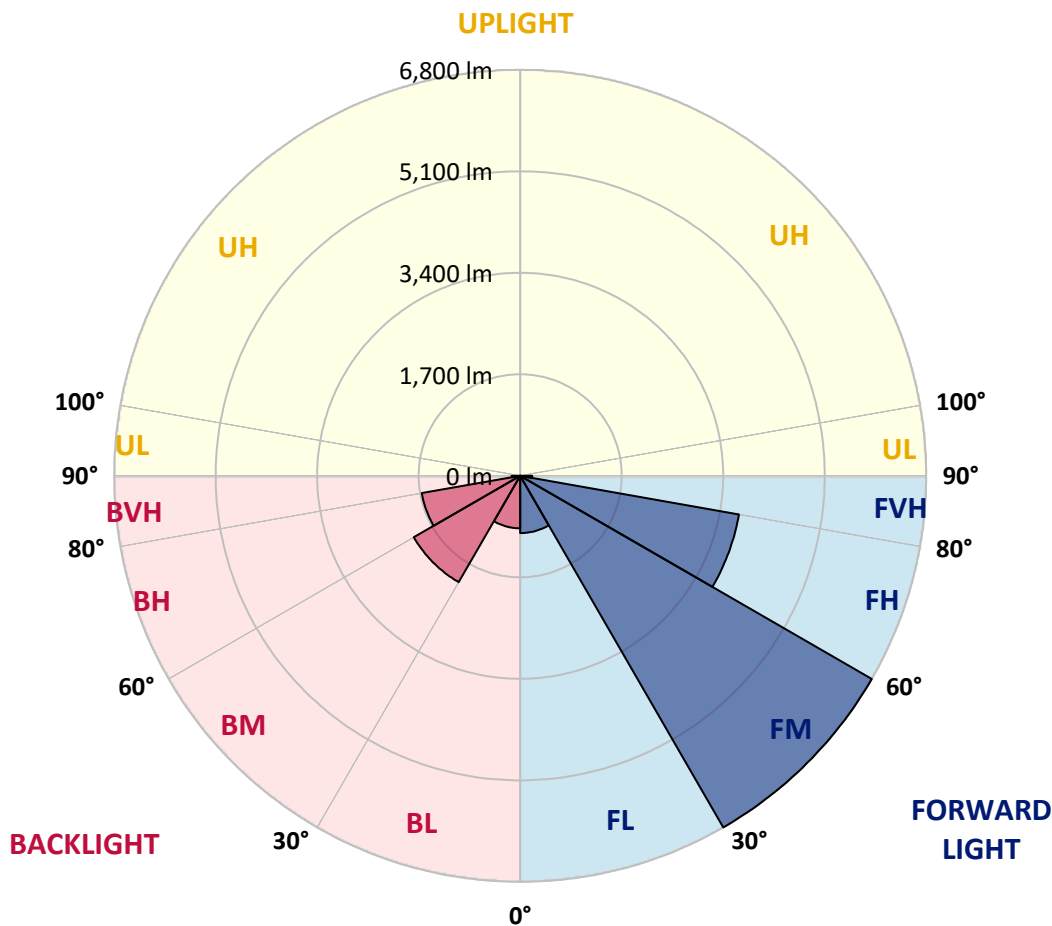
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	958.8	5.8			
FM (30°-60°)	6800.4	41.4			
FH (60°-80°)	3720.7	22.6			G2/5000
FVH (80°-90°)	202.1	1.2			G2/225
BL (0°-30°)	878.8	5.3	B2/1000		
BM (30°-60°)	2057.1	12.5	B2/2500		
BH (60°-80°)	1673.8	10.2	B3/2500		G3/2500
BVH (80°-90°)	141.3	0.9			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2076.5	2076.5	2076.5	2076.5	2076.5	2076.5	2076.5	2076.5	2076.5	2076.5	2076.5
2.5°	2039.7	2037.5	2033.2	2037.5	2039.7	2044.0	2041.9	2046.2	2044.0	2050.5	2061.3
5°	1987.8	1983.5	1981.3	1992.1	1998.6	2009.4	2013.7	2028.9	2026.7	2037.5	2054.8
7.5°	1929.4	1929.4	1927.2	1940.2	1948.9	1968.3	1983.5	2009.4	2011.6	2031.0	2050.5
10°	1884.0	1886.1	1884.0	1894.8	1907.8	1931.5	1957.5	1994.3	1996.4	2024.6	2044.0
12.5°	1866.7	1866.7	1866.7	1881.8	1899.1	1931.5	1961.8	2000.8	2005.1	2035.4	2052.7
15°	1890.5	1892.6	1888.3	1903.4	1922.9	1961.8	1989.9	2031.0	2035.4	2063.5	2074.3
17.5°	1974.8	1983.5	1972.6	1981.3	1977.0	2007.3	2033.2	2074.3	2076.5	2100.3	2104.6
20°	2141.4	2150.0	2132.7	2121.9	2083.0	2080.8	2091.6	2124.1	2124.1	2139.2	2128.4
22.5°	2398.8	2407.4	2377.1	2336.0	2243.0	2197.6	2173.8	2188.9	2186.8	2193.3	2165.2
25°	2740.5	2738.3	2701.6	2625.9	2476.6	2366.3	2307.9	2284.1	2284.1	2271.1	2236.5
27.5°	3164.5	3132.0	3067.1	2976.3	2768.6	2615.1	2489.6	2429.0	2418.2	2379.3	2314.4
30°	3616.5	3592.7	3499.7	3367.8	3127.7	2930.8	2723.2	2602.1	2595.6	2511.2	2413.9
32.5°	4148.6	4109.7	4005.9	3848.0	3560.3	3283.4	3023.9	2840.0	2829.2	2695.1	2561.0
35°	4832.1	4799.7	4598.5	4440.6	4070.7	3707.4	3400.2	3155.8	3147.1	2982.8	2811.9
37.5°	5651.9	5567.5	5372.9	5076.5	4687.2	4256.8	3867.4	3560.3	3549.5	3367.8	3151.5
40°	6383.0	6307.3	6134.2	5861.7	5444.2	4966.2	4438.5	4066.4	4055.6	3835.0	3562.4
42.5°	6923.7	6871.8	6759.3	6601.4	6302.9	6013.1	5167.4	4678.5	4659.1	4373.6	4034.0
45°	7237.4	7196.3	7131.4	7170.3	7166.0	7111.9	6036.9	5407.5	5344.7	4974.9	4559.6
47.5°	7161.7	7124.9	7150.8	7453.7	7871.1	8184.7	7049.2	6153.7	6069.3	5587.0	5119.8
50°	6614.4	6629.6	6765.8	7345.5	8282.1	8978.6	8171.8	7003.8	6891.3	6203.4	5651.9
52.5°	5617.3	5654.0	5985.0	6796.1	8236.7	9493.4	9186.2	7881.9	7732.7	6804.8	6136.4
55°	4462.2	4555.3	4983.5	5835.7	7644.0	9530.1	9951.9	8764.4	8600.0	7369.3	6558.2
57.5°	3300.7	3439.1	3934.5	4717.5	6508.4	8948.3	10334.8	9608.0	9409.0	7929.5	7003.8
60°	2093.8	2178.1	2749.2	3672.8	4981.4	7525.0	10285.0	10326.1	10153.1	8487.6	7468.8
62.5°	1336.7	1377.8	1665.5	2619.4	3482.4	5571.9	9742.1	10869.0	10752.2	8995.9	7910.0
65°	858.7	876.0	1023.1	1611.4	2370.6	3363.4	8390.2	10927.4	10942.6	9313.8	8182.6
67.5°	698.6	707.3	761.4	995.0	1676.3	1858.0	5844.4	10096.8	10280.7	9231.6	8089.6
70°	635.9	646.7	703.0	793.8	1297.8	1282.7	2829.2	8448.6	8749.3	8757.9	7676.4
72.5°	536.4	551.6	627.3	750.6	1003.6	1012.3	1198.3	6017.4	6460.8	7827.9	7055.7
75°	447.7	456.4	521.3	661.9	850.1	809.0	841.4	3190.4	3830.7	6277.0	6396.0
77.5°	363.4	372.0	419.6	527.8	754.9	629.4	661.9	1321.6	1633.1	4261.1	5227.9
80°	259.6	268.2	322.3	411.0	571.0	566.7	491.0	728.9	791.7	2303.6	3395.9
82.5°	186.0	192.5	244.4	294.2	395.8	568.9	369.9	495.3	519.1	1020.9	1369.2
85°	125.5	125.5	168.7	194.7	255.2	359.1	298.5	335.3	350.4	484.5	369.9
87.5°	54.1	54.1	90.8	99.5	134.1	166.6	222.8	168.7	173.0	261.7	151.4
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°	2076.5	2076.5	2076.5	2076.5	2076.5	2076.5	2076.5	2076.5	2076.5	2076.5	2076.5
2.5°	2067.8	2070.0	2074.3	2087.3	2095.9	2108.9	2115.4	2124.1	2124.1	2119.7	2121.9
5°	2063.5	2070.0	2085.1	2108.9	2124.1	2147.8	2165.2	2178.1	2182.5	2178.1	2180.3
7.5°	2061.3	2072.1	2098.1	2132.7	2154.3	2184.6	2208.4	2223.6	2234.4	2230.0	2232.2
10°	2054.8	2072.1	2104.6	2147.8	2180.3	2210.6	2232.2	2238.7	2245.2	2240.9	2238.7
12.5°	2063.5	2083.0	2117.6	2169.5	2206.2	2230.0	2236.5	2225.7	2210.6	2201.9	2199.8
15°	2080.8	2100.3	2134.9	2188.9	2221.4	2230.0	2214.9	2180.3	2145.7	2126.2	2124.1
17.5°	2104.6	2117.6	2145.7	2193.3	2219.2	2208.4	2178.1	2137.0	2111.1	2095.9	2098.1
20°	2119.7	2119.7	2141.4	2178.1	2199.8	2191.1	2154.3	2108.9	2067.8	2048.3	2041.9
22.5°	2141.4	2130.5	2132.7	2165.2	2195.4	2182.5	2104.6	2024.6	1966.2	1944.5	1942.4
25°	2199.8	2169.5	2150.0	2169.5	2240.9	2134.9	1979.1	1886.1	1832.1	1812.6	1814.7
27.5°	2271.1	2230.0	2188.9	2221.4	2277.6	2026.7	1819.1	1713.1	1680.6	1665.5	1672.0
30°	2342.5	2288.4	2234.4	2351.2	2251.7	1858.0	1613.6	1509.8	1481.6	1470.8	1479.5
32.5°	2474.5	2385.8	2320.9	2524.2	2171.6	1665.5	1390.8	1295.6	1269.7	1256.7	1252.4
35°	2695.1	2582.6	2517.7	2675.6	2059.2	1451.4	1187.5	1120.4	1092.3	1064.2	1059.9
37.5°	3013.0	2876.8	2818.4	2762.1	1901.3	1239.4	1031.7	986.3	945.2	902.0	899.8
40°	3393.7	3216.4	3173.1	2801.1	1682.8	1040.4	923.6	880.3	828.4	787.3	789.5
42.5°	3832.8	3605.7	3512.7	2790.3	1412.4	934.4	845.7	798.1	752.7	715.9	713.8
45°	4302.2	4044.8	3830.7	2714.5	1144.2	860.9	798.1	741.9	696.5	655.4	651.1
47.5°	4821.3	4533.6	4124.8	2567.5	945.2	809.0	770.0	690.0	648.9	622.9	622.9
50°	5344.7	5000.8	4395.2	2344.7	828.4	770.0	728.9	661.9	629.4	607.8	607.8
52.5°	5792.5	5487.5	4618.0	2078.6	754.9	737.6	700.8	648.9	614.3	594.8	592.7
55°	6227.2	5939.6	4817.0	1814.7	694.3	694.3	694.3	638.1	599.1	581.8	579.7
57.5°	6659.8	6415.4	5024.6	1641.7	640.2	657.5	681.3	625.1	586.2	571.0	568.9
60°	7148.7	6986.4	5264.7	1520.6	592.7	618.6	664.0	610.0	564.5	551.6	549.4
62.5°	7667.8	7667.8	5483.2	1349.7	549.4	586.2	638.1	590.5	545.1	534.3	532.1
65°	8074.4	8249.6	5623.8	1094.5	506.1	553.7	607.8	564.5	519.1	517.0	512.6
67.5°	8122.0	8396.7	5535.1	826.3	467.2	519.1	577.5	536.4	493.2	493.2	486.7
70°	7780.3	8059.3	5258.2	618.6	439.1	484.5	538.6	501.8	460.7	465.0	454.2
72.5°	7209.2	7278.5	4570.4	488.8	406.6	447.7	491.0	462.9	426.1	426.1	411.0
75°	6456.5	6071.5	3320.2	408.8	367.7	404.5	443.4	419.6	387.2	376.4	367.7
77.5°	5139.3	4399.5	1929.4	352.6	335.3	363.4	389.3	372.0	343.9	320.1	320.1
80°	3132.0	2578.3	852.2	305.0	296.3	318.0	335.3	315.8	292.0	268.2	261.7
82.5°	1191.8	995.0	413.1	261.7	259.6	272.5	285.5	266.0	248.7	237.9	205.5
85°	326.6	300.7	283.4	218.5	214.1	212.0	227.1	218.5	194.7	160.1	142.8
87.5°	123.3	140.6	153.6	134.1	142.8	131.9	151.4	138.4	123.3	80.0	71.4
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)