

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: P509542

Luminaire Tested: **VERD-G-CA2-120-727-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-120-727-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1120mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13877 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

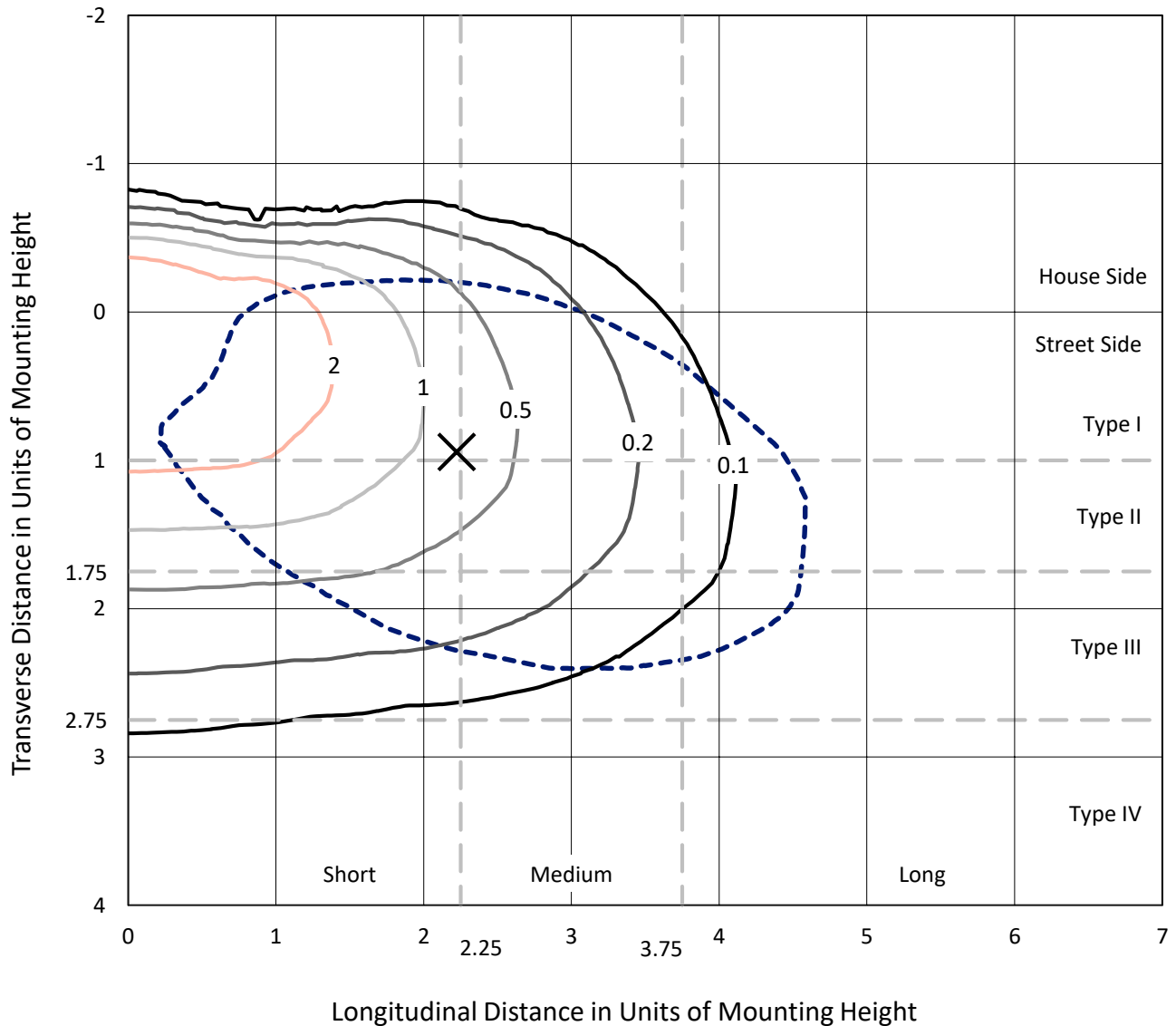
Input Watts (W): 124.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

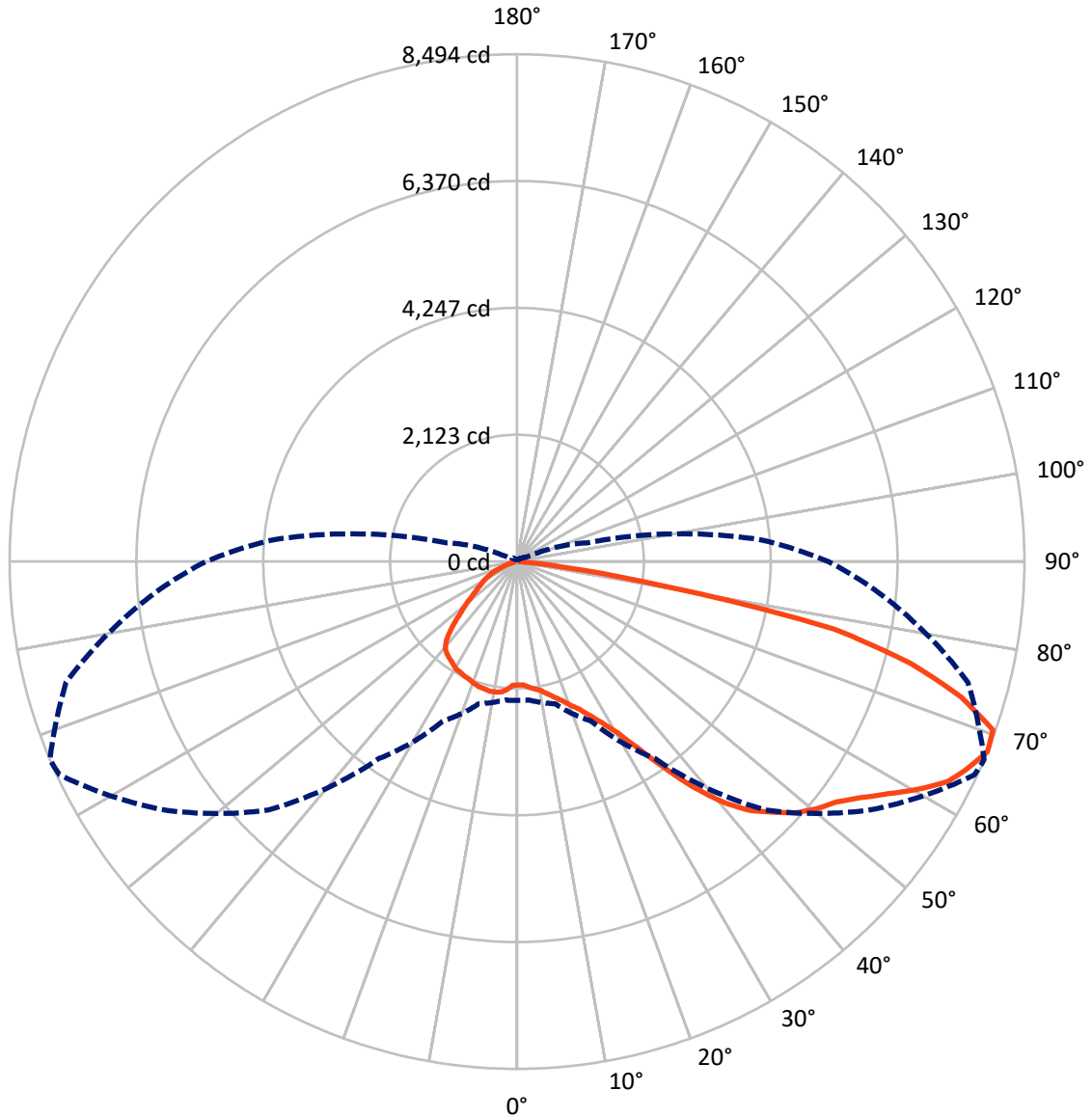
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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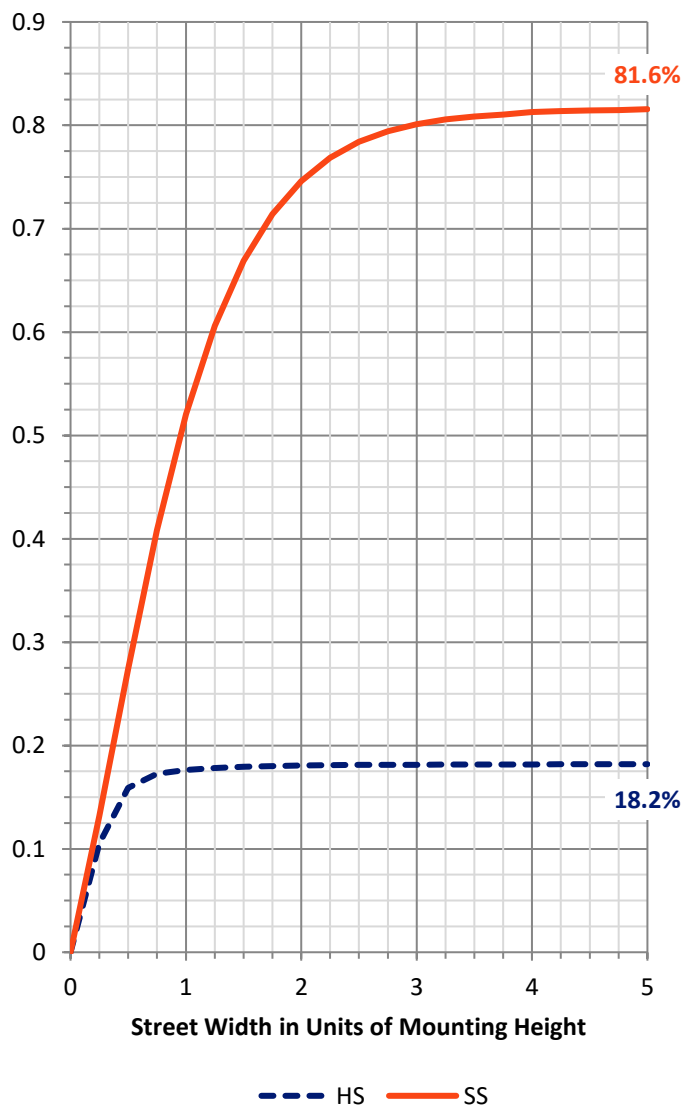
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2554.2	0.0	2554.2
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	11322.8	0.0	11322.8
	% Fixture	81.6	0.0	81.6
Total	Lumens	13877.0	0.0	13877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.8	1.5
10°-20°	649.6	4.7
20°-30°	1107.4	8.0
30°-40°	1689.1	12.2
40°-50°	2381.1	17.2
50°-60°	2878.1	20.7
60°-70°	3031.2	21.8
70°-80°	1803.1	13.0
80°-90°	129.6	0.9
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°	13877.0	100.0
0°-180°	13877.0	100.0

Coefficient of Utilization



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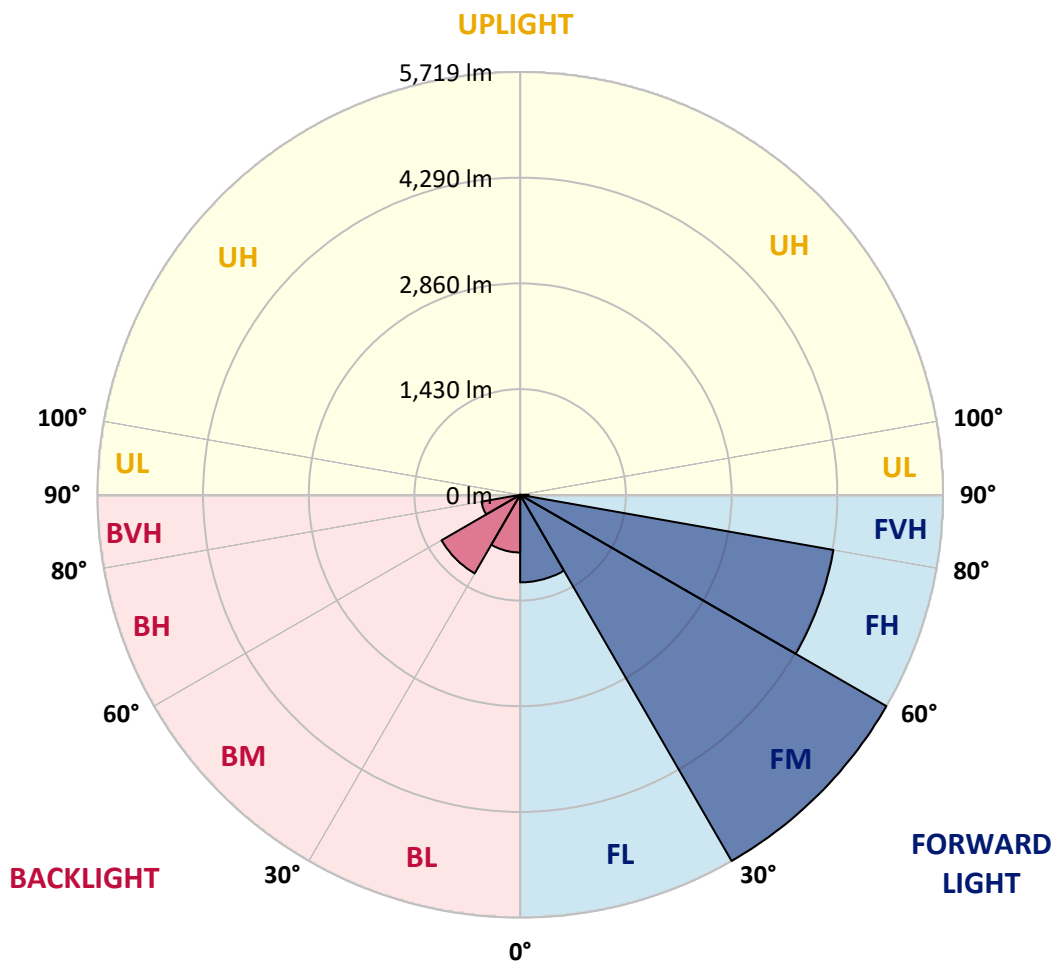
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1184.7	8.5			
FM (30°-60°)	5719.5	41.2			
FH (60°-80°)	4302.6	31.0			G2/5000
FVH (80°-90°)	116.0	0.8			G2/225
BL (0°-30°)	780.0	5.6	B2/1000		
BM (30°-60°)	1228.8	8.9	B2/2500		
BH (60°-80°)	531.7	3.8	B2/1000		G2/1000
BVH (80°-90°)	13.6	0.1			G1/100
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°	65°	67°	75°	85°
0°	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8
2.5°	2109.5	2117.5	2101.6	2097.6	2076.8	2079.7	2075.8	2065.8	2069.8	2061.9	2066.8
5°	2190.9	2170.1	2164.1	2152.2	2133.4	2122.4	2106.5	2101.6	2112.5	2103.6	2105.6
7.5°	2277.3	2281.3	2254.5	2231.6	2197.9	2189.9	2162.1	2145.3	2156.2	2144.3	2151.2
10°	2385.5	2391.5	2362.7	2331.9	2303.1	2261.4	2226.7	2199.9	2196.9	2190.9	2200.9
12.5°	2527.5	2526.5	2494.7	2457.0	2400.4	2371.6	2305.1	2267.4	2272.3	2250.5	2248.5
15°	2692.3	2678.4	2641.6	2602.9	2532.4	2475.8	2395.4	2348.8	2356.7	2331.9	2325.9
17.5°	2853.1	2839.2	2810.4	2767.7	2703.2	2615.8	2517.5	2450.0	2448.0	2436.1	2400.4
20°	3017.9	3023.8	2985.1	2946.4	2881.9	2764.7	2653.5	2566.2	2568.2	2547.3	2477.8
22.5°	3210.5	3199.5	3152.9	3135.0	3061.5	2933.5	2809.4	2709.1	2689.3	2685.3	2565.2
25°	3394.1	3387.2	3344.5	3323.6	3262.1	3144.9	2984.1	2864.0	2861.0	2848.1	2678.4
27.5°	3540.0	3548.0	3544.0	3529.1	3461.6	3346.5	3205.5	3061.5	3063.5	3044.7	2825.3
30°	3747.5	3723.7	3714.8	3726.7	3720.7	3596.6	3446.7	3342.5	3335.5	3286.9	3010.9
32.5°	3868.6	3880.5	3892.4	3934.1	3935.1	3842.8	3745.5	3695.9	3723.7	3731.6	3472.5
35°	3979.8	3979.8	4048.3	4153.5	4190.3	4158.5	4116.8	4179.3	4233.9	4344.1	4040.4
37.5°	4079.1	4107.9	4172.4	4304.4	4424.5	4455.3	4546.7	4718.4	4784.9	4885.2	4518.9
40°	4162.5	4183.3	4265.7	4427.5	4634.0	4775.0	4945.7	5218.7	5288.2	5269.3	4784.9
42.5°	4070.1	4103.9	4235.9	4568.5	4828.6	5093.6	5317.0	5611.8	5696.2	5521.5	5064.8
45°	4020.5	4033.4	4171.4	4548.6	4971.5	5416.3	5669.4	5985.1	5985.1	5789.5	5262.4
47.5°	3921.2	3944.1	4107.9	4522.8	5123.4	5685.3	5941.4	6263.1	6283.9	6042.7	5459.0
50°	3821.0	3849.8	4035.4	4477.2	5208.8	5955.3	6172.7	6495.4	6503.3	6216.4	5632.7
52.5°	3721.7	3736.6	3944.1	4447.4	5303.1	6094.3	6372.3	6684.0	6687.9	6476.5	5824.3
55°	3544.0	3580.7	3795.2	4338.2	5298.1	6157.8	6476.5	6936.1	6974.8	6759.4	6012.9
57.5°	3377.2	3388.1	3622.4	4180.3	5217.7	6231.3	6700.8	7297.5	7335.2	7016.5	6152.9
60°	3154.9	3166.8	3418.9	3992.7	5098.6	6304.8	6985.8	7719.4	7736.3	7286.6	6258.1
62.5°	2922.6	2963.3	3170.7	3704.8	4851.4	6317.7	7227.0	8108.5	8101.6	7520.8	6327.6
65°	2649.6	2664.5	2864.0	3368.3	4473.2	6219.4	7326.3	8297.1	8314.0	7685.6	6281.9
67.5°	2322.0	2327.9	2464.9	2949.4	4025.5	5880.9	7243.9	8451.0	8493.7	7814.7	6091.3
70°	1834.5	1843.5	1969.6	2430.2	3390.1	5362.7	7104.9	8468.9	8451.0	7698.5	5801.4
72.5°	1278.6	1265.7	1388.8	1704.5	2567.2	4410.6	6433.8	7748.2	7779.9	7122.8	5194.9
75°	612.5	616.5	860.7	1048.3	1441.4	3150.9	5354.7	6672.1	6805.1	6207.5	4232.0
77.5°	104.2	106.2	227.3	413.0	580.7	1322.3	3551.0	5314.0	5427.2	4872.3	2865.0
80°	83.4	83.4	111.2	222.4	307.7	548.0	1345.1	2355.7	2478.8	2206.8	1056.3
82.5°	56.6	59.6	79.4	130.0	109.2	214.4	488.4	745.5	765.4	693.9	433.8
85°	31.8	32.8	40.7	52.6	45.7	79.4	100.3	102.2	108.2	84.4	64.5
87.5°	4.0	8.9	8.9	8.9	4.0	4.0	3.0	3.0	4.0	3.0	3.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8	2065.8
2.5°	2063.9	2051.9	2077.8	2072.8	2090.7	2087.7	2102.6	2110.5	2127.4	2149.2	2147.2
5°	2107.5	2106.5	2137.3	2152.2	2168.1	2183.0	2184.0	2198.9	2213.8	2246.5	2245.5
7.5°	2149.2	2158.2	2201.8	2202.8	2208.8	2219.7	2204.8	2209.8	2213.8	2225.7	2229.6
10°	2197.9	2214.8	2215.7	2211.8	2192.9	2191.9	2158.2	2162.1	2144.3	2158.2	2151.2
12.5°	2260.4	2246.5	2238.6	2211.8	2183.0	2144.3	2112.5	2068.8	2058.9	2058.9	2061.9
15°	2322.0	2301.1	2232.6	2189.9	2137.3	2075.8	2024.2	1974.5	1949.7	1938.8	1936.8
17.5°	2375.6	2331.9	2234.6	2179.0	2079.7	1989.4	1912.0	1832.6	1793.8	1769.0	1765.1
20°	2419.3	2372.6	2240.6	2143.3	2017.2	1884.2	1767.0	1666.8	1590.3	1533.7	1539.7
22.5°	2492.7	2418.3	2236.6	2100.6	1944.7	1772.0	1595.3	1457.3	1329.2	1297.5	1306.4
25°	2581.1	2483.8	2259.4	2074.8	1860.4	1631.0	1398.7	1238.9	1101.9	1058.2	1061.2
27.5°	2683.3	2563.2	2285.2	2032.1	1773.0	1457.3	1177.4	979.8	870.6	784.2	777.3
30°	2846.1	2671.4	2313.0	2004.3	1650.9	1263.7	936.1	730.6	593.6	547.0	547.0
32.5°	3228.3	2890.8	2357.7	1937.8	1490.1	1047.3	683.0	478.5	357.4	315.7	316.7
35°	3713.8	3333.5	2459.0	1856.4	1300.5	794.2	421.9	266.0	209.5	188.6	186.6
37.5°	4177.4	3740.6	2675.4	1761.1	1061.2	503.3	237.3	163.8	143.0	142.0	143.0
40°	4463.3	4062.2	2892.8	1634.0	775.3	277.0	153.9	134.0	131.0	128.1	128.1
42.5°	4727.3	4283.6	3057.6	1439.4	462.6	167.8	135.0	122.1	120.1	115.2	115.2
45°	4941.8	4442.4	3070.5	1180.3	245.2	148.9	124.1	111.2	107.2	104.2	103.2
47.5°	5145.3	4597.3	3023.8	904.4	174.7	138.0	116.1	102.2	97.3	99.3	98.3
50°	5282.3	4752.1	2896.8	710.8	166.8	128.1	107.2	93.3	91.3	95.3	94.3
52.5°	5430.2	4879.2	2649.6	552.9	154.9	118.1	98.3	87.4	83.4	86.4	87.4
55°	5547.3	4877.2	2467.9	431.8	146.9	110.2	92.3	82.4	75.4	75.4	74.5
57.5°	5604.9	4830.6	2322.0	339.5	138.0	102.2	86.4	72.5	64.5	62.5	61.5
60°	5601.9	4784.9	2152.2	279.0	129.1	93.3	77.4	61.5	53.6	49.6	49.6
62.5°	5570.1	4677.7	1883.2	240.2	120.1	86.4	64.5	50.6	44.7	40.7	41.7
65°	5488.7	4471.2	1552.6	204.5	111.2	83.4	54.6	44.7	38.7	34.7	34.7
67.5°	5206.8	4124.7	1211.1	171.7	102.2	69.5	47.7	37.7	32.8	28.8	28.8
70°	4807.7	3596.6	797.2	144.9	91.3	60.6	42.7	32.8	27.8	23.8	22.8
72.5°	4097.9	2873.9	405.0	124.1	78.4	53.6	37.7	28.8	23.8	19.9	18.9
75°	3142.9	1935.8	252.2	99.3	61.5	47.7	33.8	25.8	19.9	14.9	13.9
77.5°	1874.3	779.3	178.7	69.5	41.7	37.7	27.8	20.8	15.9	10.9	10.9
80°	591.7	344.5	121.1	47.7	26.8	25.8	20.8	14.9	10.9	7.9	7.9
82.5°	334.5	218.4	81.4	31.8	18.9	16.9	11.9	8.9	6.9	6.0	6.0
85°	55.6	43.7	24.8	11.9	8.9	7.9	5.0	3.0	2.0	1.0	2.0
87.5°	3.0	3.0	4.0	4.0	4.0	3.0	2.0	0.0	0.0	0.0	0.0
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)