

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: P553628

Luminaire Tested: **VERD-G-CA2-160-750-U-T4-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-7)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-160-750-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1460mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20640 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

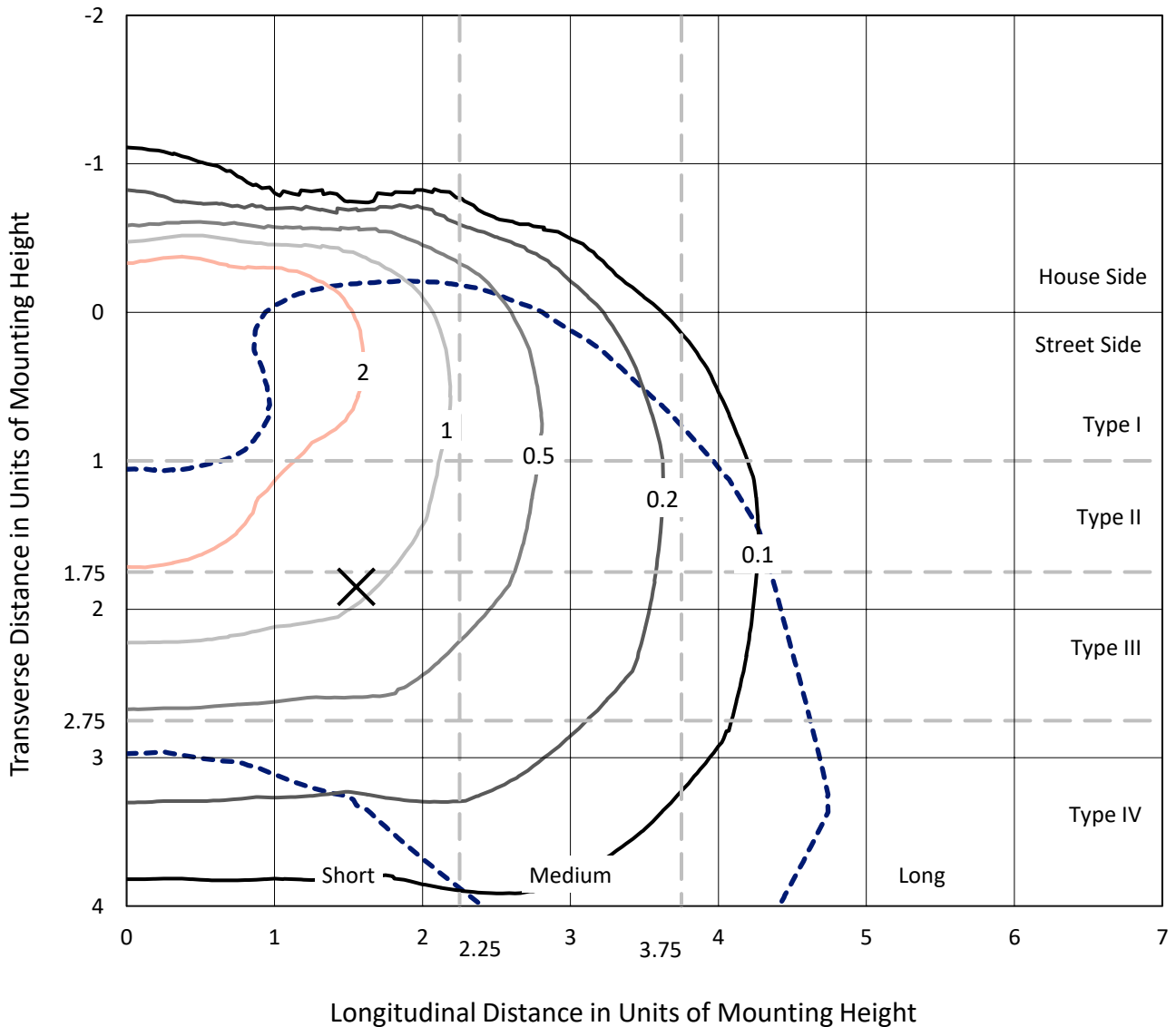
Input Watts (W): 162.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P553628
 CATALOG NUMBER: VERD-G-CA2-160-750-U-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination

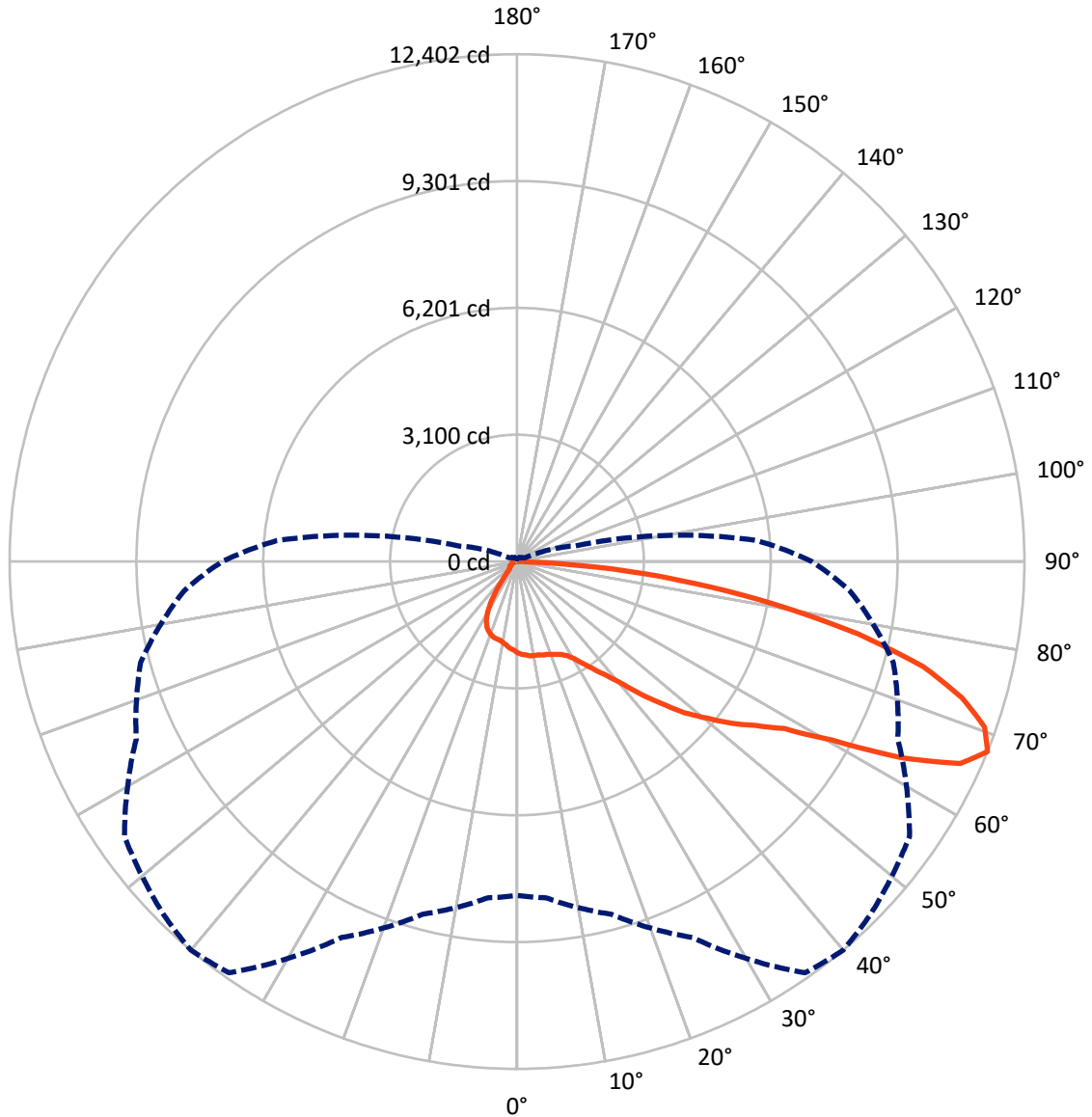
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P553628
CATALOG NUMBER: VERD-G-CA2-160-750-U-T4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P553628

CATALOG NUMBER: VERD-G-CA2-160-750-U-T4-HSS

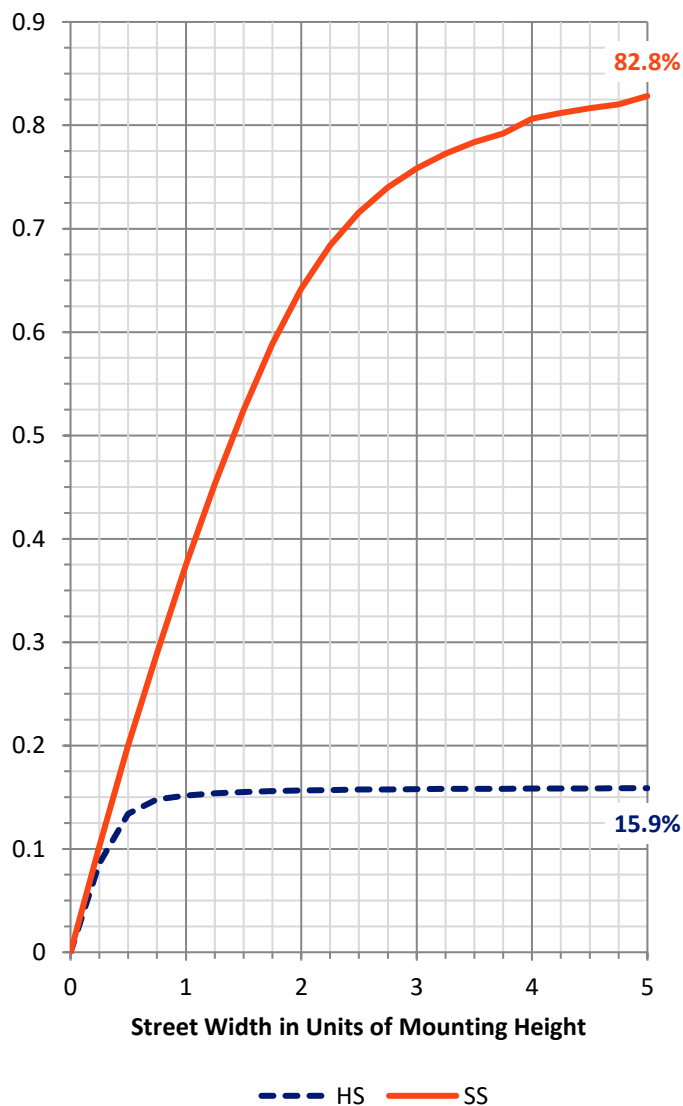
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3312.4	0.0	3312.4
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	17327.6	0.0	17327.6
	% Fixture	84.0	0.0	84.0
Total	Lumens	20640.0	0.0	20640.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.4	1.0
10°-20°	627.1	3.0
20°-30°	1043.3	5.1
30°-40°	1640.5	7.9
40°-50°	2840.5	13.8
50°-60°	4198.8	20.3
60°-70°	5458.7	26.4
70°-80°	3907.2	18.9
80°-90°	712.5	3.5
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°	20640.0	100.0
0°-180°	20640.0	100.0

Coefficient of Utilization



REPORT NUMBER: P553628

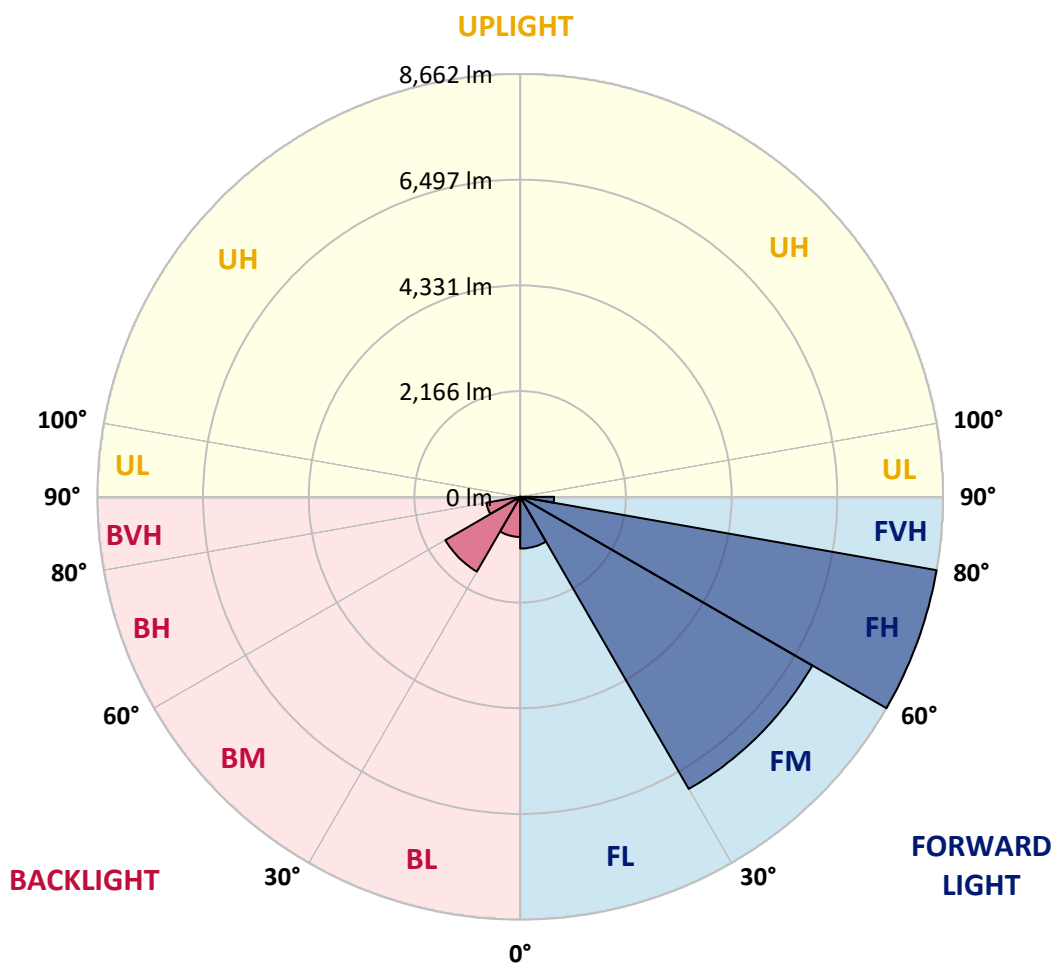
CATALOG NUMBER: VERD-G-CA2-160-750-U-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1060.1	5.1			
FM	(30°-60°)	6910.4	33.5			
FH	(60°-80°)	8662.1	42.0			G4/12000
FVH	(80°-90°)	695.0	3.4			G4/750
BL	(0°-30°)	821.7	4.0	B2/1000		
BM	(30°-60°)	1769.4	8.6	B2/2500		
BH	(60°-80°)	703.8	3.4	B2/1000		G2/1000
BVH	(80°-90°)	17.5	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-G4

Type IV Short





REPORT NUMBER: P553628

CATALOG NUMBER: VERD-G-CA2-160-750-U-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2234.2	2234.2	2234.2	2234.2	2234.2	2234.2	2234.2	2234.2	2234.2	2234.2	2234.2
2.5°	2324.6	2323.1	2307.8	2300.1	2278.6	2271.0	2272.5	2263.3	2241.9	2244.9	2223.5
5°	2327.7	2338.4	2315.4	2309.3	2301.6	2292.4	2303.2	2290.9	2272.5	2278.6	2255.7
7.5°	2341.5	2346.1	2335.3	2329.2	2310.8	2329.2	2327.7	2317.0	2304.7	2294.0	2284.8
10°	2346.1	2341.5	2320.0	2315.4	2315.4	2333.8	2341.5	2346.1	2346.1	2329.2	2323.1
12.5°	2323.1	2320.0	2298.6	2307.8	2327.7	2339.9	2364.5	2379.8	2404.3	2385.9	2376.7
15°	2287.8	2295.5	2304.7	2307.8	2344.5	2372.1	2395.1	2422.7	2464.1	2464.1	2461.0
17.5°	2298.6	2313.9	2324.6	2339.9	2375.2	2384.4	2416.6	2461.0	2530.0	2534.6	2542.2
20°	2352.2	2352.2	2355.3	2366.0	2396.6	2424.2	2451.8	2508.5	2588.2	2614.2	2621.9
22.5°	2410.4	2407.4	2421.2	2419.6	2444.1	2462.5	2497.8	2546.8	2646.4	2695.5	2715.4
25°	2457.9	2467.1	2479.4	2464.1	2511.6	2519.2	2546.8	2606.6	2712.3	2799.7	2842.6
27.5°	2539.2	2545.3	2542.2	2549.9	2597.4	2602.0	2628.0	2713.8	2811.9	2931.4	3024.9
30°	2678.6	2657.1	2660.2	2677.1	2746.0	2755.2	2782.8	2865.6	2943.7	3101.5	3248.6
32.5°	2870.1	2870.1	2836.4	2868.6	2948.3	2972.8	3014.2	3138.3	3214.9	3299.2	3541.3
35°	3236.4	3236.4	3211.9	3127.6	3167.4	3228.7	3305.3	3477.0	3713.0	3988.8	4246.2
37.5°	3843.2	3834.0	3737.5	3585.8	3500.0	3521.4	3596.5	3873.9	4257.0	4929.7	5127.3
40°	4568.0	4542.0	4361.2	4149.7	3930.6	3893.8	3929.0	4276.9	4822.4	5820.0	5895.1
42.5°	5211.6	5210.1	4945.0	4765.7	4485.3	4424.0	4382.6	4684.5	5389.4	6466.6	6492.7
45°	5826.1	5810.8	5553.3	5358.7	5102.8	4946.5	4935.8	5147.3	5985.5	7049.0	6938.6
47.5°	6373.2	6396.2	6108.1	5921.1	5637.6	5530.4	5444.5	5625.4	6534.1	7545.4	7317.1
50°	7003.0	7044.4	6613.8	6408.4	6121.9	6016.1	6063.6	6196.9	7081.1	7951.5	7654.2
52.5°	7798.3	7666.5	7239.0	6886.5	6619.9	6567.8	6578.5	6763.9	7714.0	8284.0	7888.7
55°	8734.6	8540.0	8110.9	7560.8	7125.6	7076.5	7071.9	7260.4	8299.4	8595.1	8069.5
57.5°	9087.0	9188.2	9019.6	8613.5	7844.3	7700.2	7588.3	7763.0	8825.0	8938.4	8259.5
60°	9900.7	10009.5	9885.4	9624.9	9364.4	8863.3	8372.9	8356.1	9315.3	9266.3	8339.2
62.5°	9991.1	9955.9	10507.5	10599.5	10754.2	10559.6	10196.5	9142.2	9758.2	9433.3	8402.0
65°	9485.4	9490.0	10230.2	10735.9	11805.5	11905.1	11679.8	10392.6	10090.7	9499.2	8357.6
67.5°	8161.5	8251.9	8926.1	10138.2	12271.3	12401.6	12211.5	11712.0	10270.0	9522.2	8164.5
70°	7013.7	7016.8	7654.2	9133.0	12026.1	12124.2	12036.8	11797.8	10201.1	9339.9	7640.4
72.5°	5519.6	5502.8	6062.1	7556.2	11160.3	11368.7	11321.2	11485.2	9948.2	8680.9	6500.4
75°	3985.7	4019.4	4586.4	5820.0	9600.4	10247.0	10476.9	10976.4	9047.2	7372.3	4765.7
77.5°	2790.5	2824.2	3368.2	4420.9	7747.7	8527.7	8897.0	9335.3	7332.4	5464.5	2442.6
80°	1825.1	1855.7	2323.1	3320.7	5775.5	6440.6	6718.0	6455.9	4306.0	2295.5	268.2
82.5°	1060.4	1120.2	1475.7	2278.6	4047.0	4362.7	4378.0	3397.3	1609.0	205.3	125.7
85°	516.4	554.7	882.7	1351.6	2214.3	2327.7	2159.1	1264.2	375.4	98.1	72.0
87.5°	76.6	101.1	347.9	510.3	375.4	308.0	185.4	42.9	24.5	12.3	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P553628

CATALOG NUMBER: VERD-G-CA2-160-750-U-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2234.2	2234.2	2234.2	2234.2	2234.2	2234.2	2234.2	2234.2	2234.2	2234.2	2234.2
2.5°	2211.2	2209.7	2214.3	2194.4	2195.9	2171.4	2162.2	2157.6	2179.0	2176.0	2191.3
5°	2238.8	2223.5	2222.0	2172.9	2168.3	2137.7	2119.3	2091.7	2113.2	2108.6	2108.6
7.5°	2255.7	2240.3	2231.1	2172.9	2133.1	2079.4	2048.8	2027.3	2025.8	2021.2	2022.7
10°	2283.2	2275.6	2226.5	2162.2	2108.6	2039.6	1981.4	1947.7	1932.3	1933.9	1923.1
12.5°	2344.5	2329.2	2263.3	2186.7	2100.9	2005.9	1930.8	1871.0	1840.4	1834.3	1817.4
15°	2431.9	2415.0	2332.3	2244.9	2120.8	2009.0	1897.1	1791.4	1739.3	1717.8	1702.5
17.5°	2534.6	2508.5	2413.5	2313.9	2162.2	2005.9	1864.9	1722.4	1622.8	1566.1	1561.5
20°	2615.8	2603.5	2494.7	2387.4	2188.2	1986.0	1811.3	1622.8	1474.2	1369.9	1348.5
22.5°	2723.0	2724.6	2603.5	2442.6	2209.7	1952.3	1727.0	1483.3	1281.1	1141.6	1117.1
25°	2877.8	2854.8	2718.4	2487.1	2214.3	1913.9	1612.1	1308.7	1045.1	888.8	861.2
27.5°	3063.2	3029.5	2811.9	2510.0	2194.4	1837.3	1458.8	1080.3	772.3	637.5	616.0
30°	3259.4	3179.7	2888.5	2519.2	2133.1	1713.2	1241.2	789.2	547.1	452.1	442.9
32.5°	3510.7	3394.2	2954.4	2488.6	2039.6	1524.7	962.3	540.9	378.5	327.9	331.0
35°	4025.6	3740.5	3057.1	2454.9	1907.8	1288.7	672.7	358.6	292.7	286.6	288.1
37.5°	4804.0	4352.0	3237.9	2405.8	1711.7	985.3	432.1	277.4	278.9	278.9	278.9
40°	5556.4	5020.1	3515.3	2309.3	1471.1	689.6	285.0	262.0	269.7	268.2	269.7
42.5°	6092.7	5516.6	3806.4	2191.3	1193.7	436.7	255.9	246.7	251.3	249.8	254.4
45°	6527.9	5942.6	4071.5	2024.3	893.4	285.0	251.3	234.5	229.9	228.3	232.9
47.5°	6849.7	6223.0	4261.6	1815.9	596.1	245.2	240.6	216.1	209.9	209.9	211.5
50°	7162.3	6492.7	4318.2	1578.4	367.8	239.1	226.8	200.7	191.5	188.5	191.5
52.5°	7379.9	6584.6	4330.5	1310.2	246.7	232.9	209.9	182.4	171.6	170.1	171.6
55°	7565.4	6773.1	4230.9	976.1	220.7	219.1	194.6	164.0	151.7	157.8	160.9
57.5°	7611.3	6791.5	4031.7	645.1	219.1	200.7	177.8	147.1	137.9	144.0	145.6
60°	7727.8	6716.4	3783.4	396.9	214.5	179.3	157.8	130.3	124.1	125.7	128.7
62.5°	7628.2	6675.0	3359.0	277.4	197.7	164.0	147.1	119.5	108.8	107.3	107.3
65°	7527.1	6431.4	2568.3	229.9	176.2	153.2	133.3	105.7	93.5	87.3	87.3
67.5°	7205.3	5885.9	1466.5	213.0	159.4	141.0	121.1	96.5	81.2	73.6	70.5
70°	6394.6	4715.1	452.1	194.6	160.9	131.8	111.9	84.3	70.5	59.8	58.2
72.5°	5007.8	2948.3	211.5	171.6	165.5	122.6	104.2	78.2	62.8	50.6	49.0
75°	2946.8	706.4	173.2	127.2	141.0	130.3	102.7	75.1	55.2	41.4	39.8
77.5°	640.5	171.6	154.8	85.8	105.7	125.7	98.1	65.9	49.0	32.2	30.6
80°	154.8	134.8	141.0	65.9	70.5	87.3	79.7	56.7	44.4	26.1	24.5
82.5°	104.2	101.1	124.1	41.4	35.2	32.2	33.7	35.2	36.8	19.9	18.4
85°	69.0	87.3	65.9	23.0	19.9	16.9	16.9	15.3	21.5	12.3	12.3
87.5°	10.7	9.2	10.7	9.2	9.2	7.7	6.1	6.1	4.6	6.1	6.1
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)