

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: P509156

Luminaire Tested: **VERD-CA2-120-727-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-120-727-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1120mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13210 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

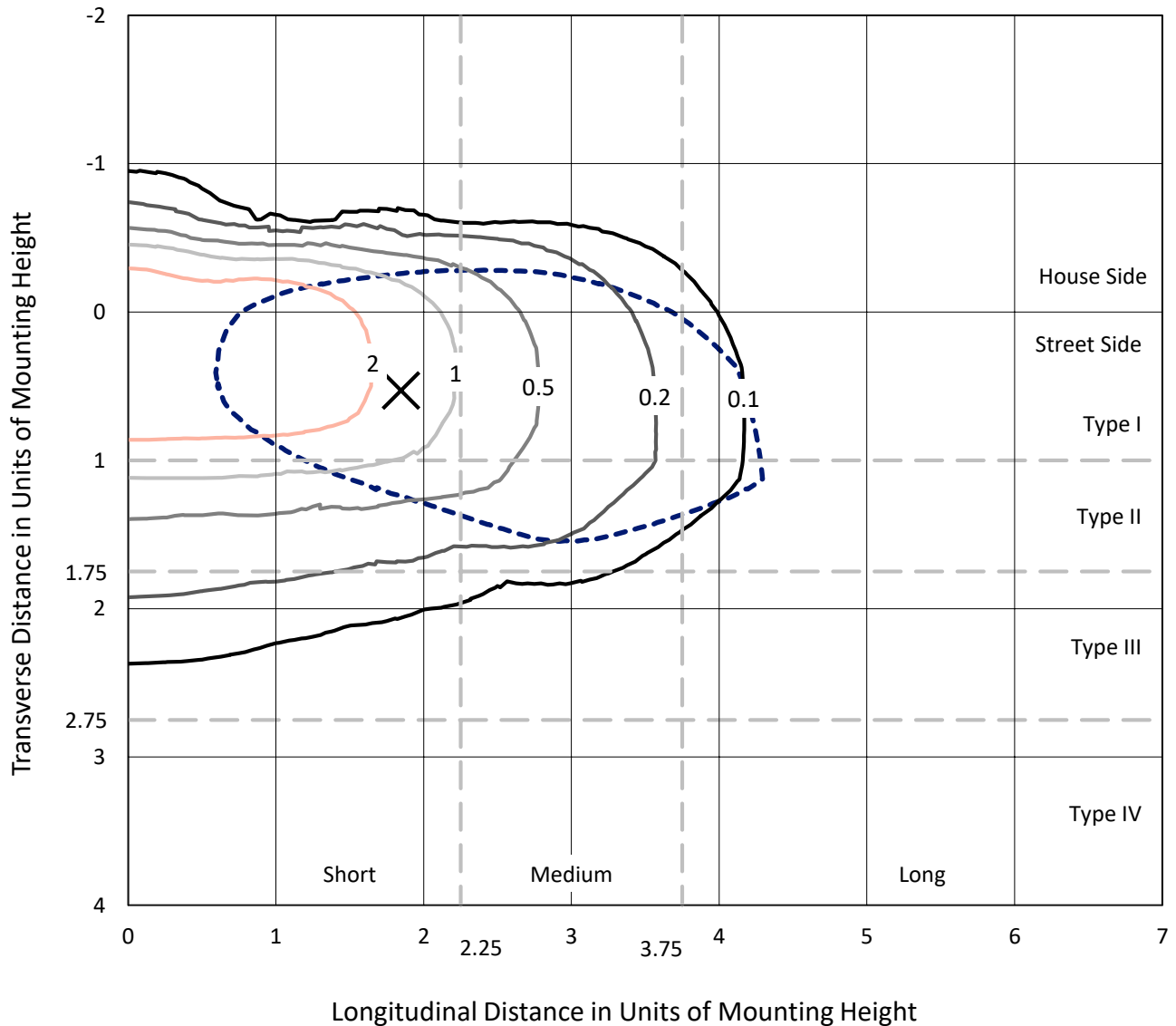
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

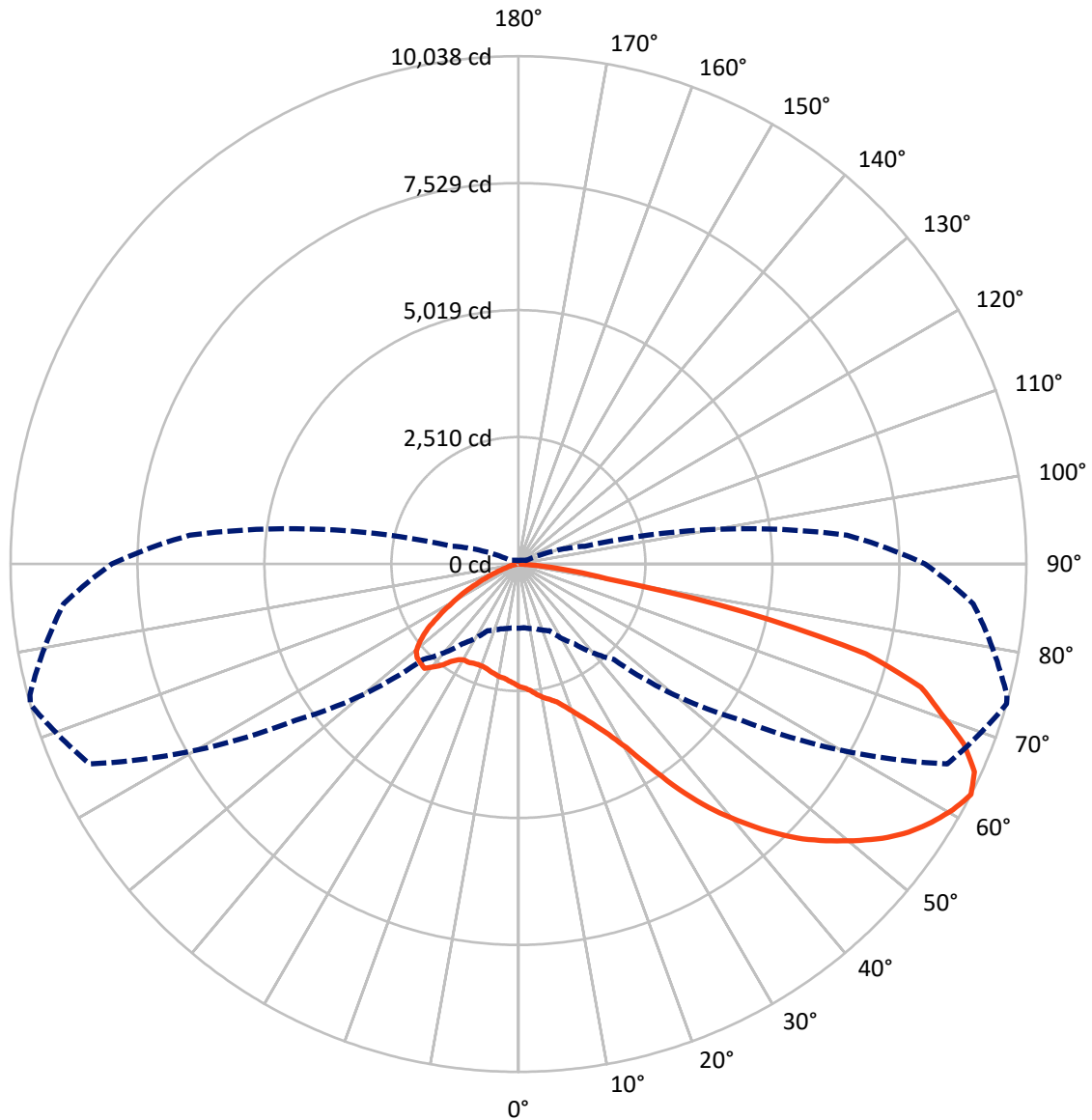
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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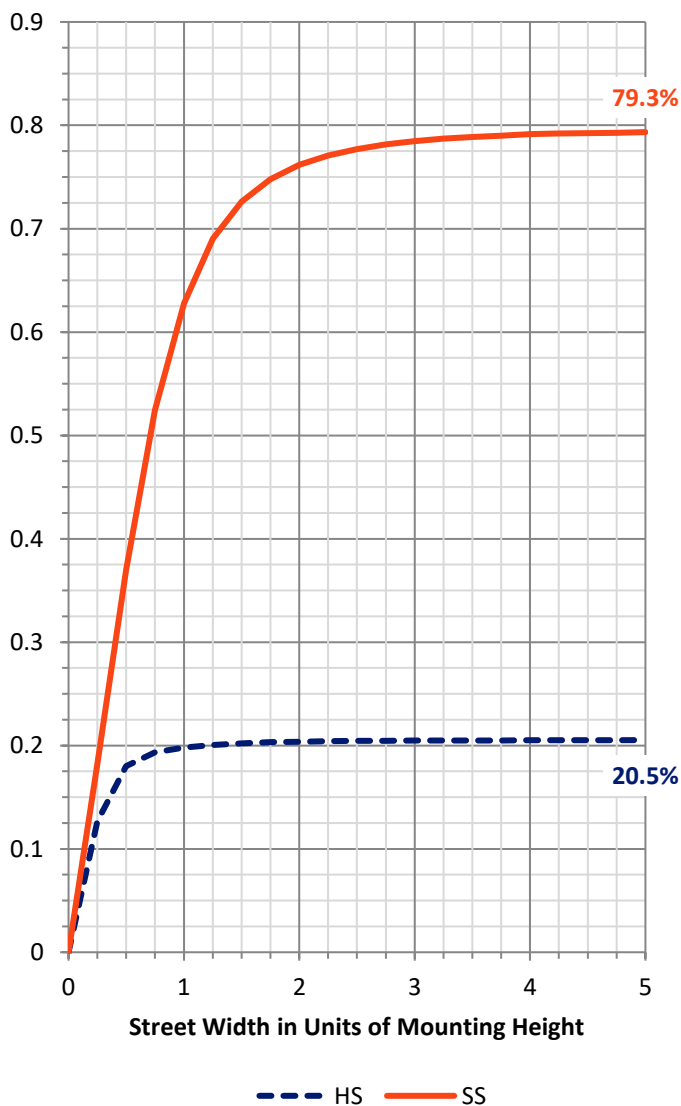
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2743.1	0.0	2743.1
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	10466.9	0.0	10466.9
	% Fixture	79.2	0.0	79.2
Total	Lumens	13210.0	0.0	13210.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.8	1.7
10°-20°	697.2	5.3
20°-30°	1177.1	8.9
30°-40°	1750.8	13.3
40°-50°	2369.7	17.9
50°-60°	2726.3	20.6
60°-70°	2631.5	19.9
70°-80°	1489.9	11.3
80°-90°	136.7	1.0
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°	13210.0	100.0
0°-180°	13210.0	100.0



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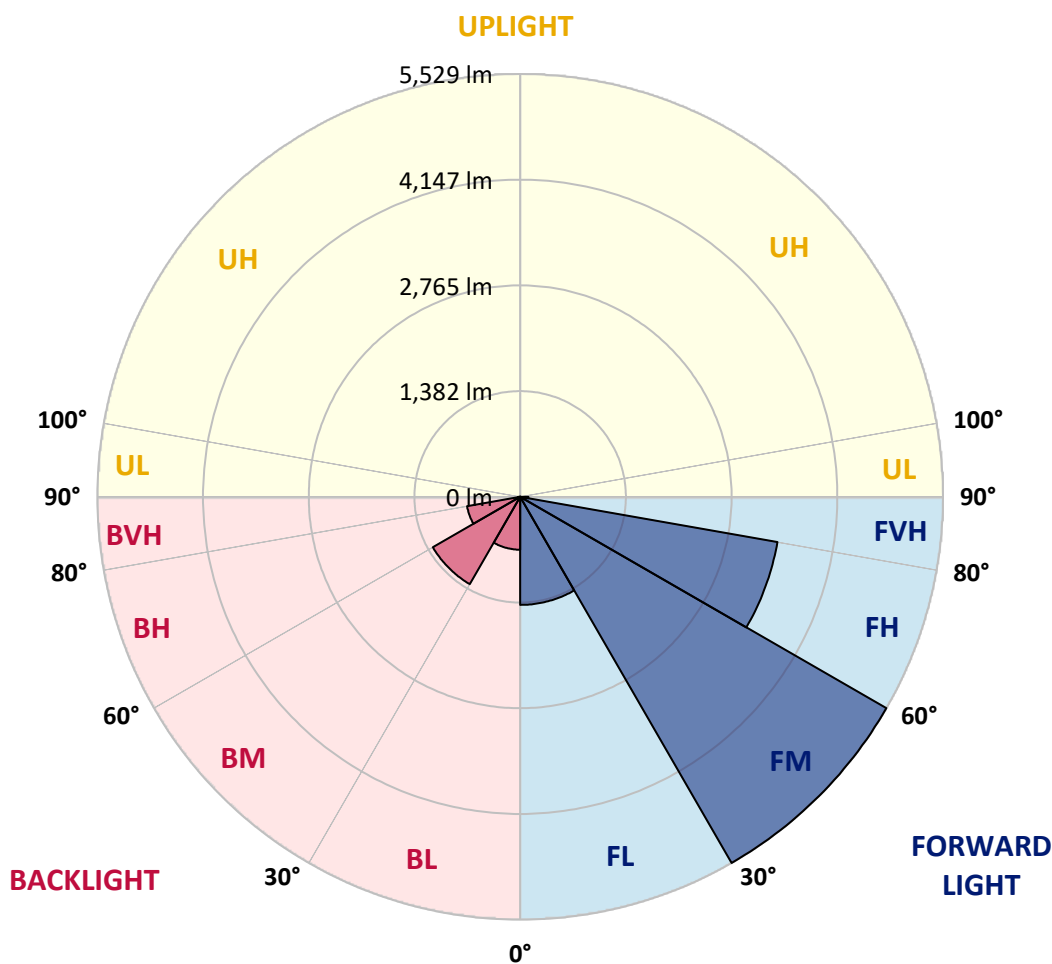
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1413.5	10.7			
FM	(30°-60°)	5529.5	41.9			
FH	(60°-80°)	3416.3	25.9			G2/5000
FVH	(80°-90°)	107.7	0.8			G2/225
BL	(0°-30°)	691.7	5.2	B2/1000		
BM	(30°-60°)	1317.3	10.0	B2/2500		
BH	(60°-80°)	705.2	5.3	B2/1000		G2/1000
BVH	(80°-90°)	29.0	0.2			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2421.3	2421.3	2421.3	2421.3	2421.3	2421.3	2421.3	2421.3	2421.3	2421.3	2421.3
2.5°	2640.2	2622.8	2608.7	2600.8	2578.8	2559.9	2522.1	2482.7	2456.0	2454.4	2429.2
5°	2750.4	2748.8	2717.3	2711.0	2681.1	2671.6	2633.9	2577.2	2511.1	2503.2	2435.5
7.5°	2895.2	2877.9	2843.2	2829.1	2794.4	2769.3	2718.9	2665.3	2599.2	2591.4	2473.3
10°	3035.3	3025.9	3005.4	3007.0	2958.2	2910.9	2835.4	2744.1	2681.1	2671.6	2526.8
12.5°	3197.5	3167.6	3132.9	3114.0	3065.2	3035.3	2962.9	2843.2	2744.1	2734.6	2589.8
15°	3309.3	3293.5	3262.0	3249.4	3202.2	3153.4	3070.0	2977.1	2827.5	2818.1	2654.3
17.5°	3428.9	3421.0	3384.8	3376.9	3331.3	3273.0	3208.5	3087.3	2956.6	2940.9	2731.5
20°	3509.2	3495.0	3490.3	3488.7	3476.1	3439.9	3358.1	3263.6	3118.8	3090.4	2830.7
22.5°	3616.2	3602.1	3608.4	3614.7	3632.0	3616.2	3562.7	3450.9	3307.7	3282.5	2986.5
25°	3627.3	3617.8	3660.3	3748.5	3783.1	3800.4	3759.5	3672.9	3534.4	3501.3	3172.3
27.5°	3657.2	3643.0	3688.7	3781.6	3937.4	3964.2	3972.0	3931.1	3814.6	3795.7	3424.2
30°	3603.7	3594.2	3665.1	3824.1	3998.8	4149.9	4208.2	4264.9	4211.3	4178.3	3775.3
32.5°	3473.0	3479.3	3572.2	3783.1	4105.9	4338.9	4490.0	4689.9	4786.0	4779.7	4397.1
35°	3282.5	3279.3	3435.2	3732.7	4115.3	4516.8	4798.6	5204.8	5474.0	5455.1	5050.5
37.5°	3120.3	3112.5	3288.8	3605.2	4123.2	4658.5	5160.7	5766.8	6108.4	6089.5	5584.2
40°	2922.0	2934.6	3092.0	3457.2	4057.1	4763.9	5475.5	6313.1	6662.6	6662.6	6136.8
42.5°	2722.0	2733.0	2888.9	3251.0	3961.0	4841.1	5771.5	6857.8	7213.6	7221.5	6516.2
45°	2547.3	2552.0	2693.7	3019.6	3787.9	4853.7	6043.9	7404.1	7730.0	7709.5	6949.1
47.5°	2240.3	2292.2	2514.2	2811.8	3551.7	4798.6	6273.7	7890.6	8173.9	8131.4	7361.6
50°	1785.3	1785.3	2092.3	2613.4	3280.9	4652.2	6454.8	8334.5	8595.9	8556.5	7722.1
52.5°	1640.5	1643.6	1738.1	2334.7	3007.0	4400.3	6558.7	8775.3	9009.9	8983.2	8063.7
55°	1563.3	1568.0	1612.1	1892.4	2758.2	4014.6	6561.8	9117.0	9361.0	9301.2	8351.8
57.5°	1446.8	1438.9	1531.8	1686.1	2467.0	3517.1	6407.5	9381.5	9633.4	9587.7	8588.0
60°	1364.9	1352.4	1415.3	1553.9	2153.7	3002.3	5996.6	9573.5	9866.4	9893.1	8819.4
62.5°	1268.9	1264.2	1324.0	1454.7	1922.3	2665.3	5379.5	9350.0	10038.0	9995.5	9024.1
65°	1172.9	1163.4	1220.1	1322.4	1698.7	2389.8	4757.6	9019.4	9905.7	9943.5	9065.0
67.5°	1046.9	1045.4	1098.9	1174.5	1454.7	2081.3	3857.1	8584.8	9496.4	9469.6	8693.5
70°	894.2	894.2	947.7	1013.9	1215.4	1775.8	2961.3	7840.2	8866.7	9022.5	8057.4
72.5°	722.6	725.8	779.3	854.9	1002.9	1446.8	2183.6	6818.4	8320.4	8070.0	7160.1
75°	385.7	346.4	610.8	688.0	809.2	1154.0	1494.0	4433.3	7095.5	6922.4	5940.0
77.5°	92.9	97.6	192.1	357.4	431.4	639.2	735.2	2052.9	4575.0	4850.5	4236.5
80°	61.4	67.7	103.9	253.5	288.1	340.1	291.3	894.2	1774.3	1890.8	2459.1
82.5°	31.5	34.6	64.5	100.8	102.3	88.2	110.2	450.3	938.3	1017.0	1182.3
85°	11.0	17.3	33.1	44.1	40.9	33.1	26.8	111.8	222.0	247.2	256.6
87.5°	0.0	0.0	4.7	4.7	3.1	3.1	4.7	4.7	6.3	4.7	4.7
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°	2421.3	2421.3	2421.3	2421.3	2421.3	2421.3	2421.3	2421.3	2421.3	2421.3	2421.3
2.5°	2408.7	2391.4	2364.7	2336.3	2306.4	2281.2	2267.0	2274.9	2284.4	2254.4	2243.4
5°	2404.0	2374.1	2323.7	2263.9	2218.2	2172.6	2119.1	2106.5	2093.9	2078.1	2060.8
7.5°	2426.1	2382.0	2279.6	2224.5	2128.5	2043.5	1996.3	1961.6	1930.1	1901.8	1884.5
10°	2467.0	2385.1	2270.2	2158.4	2052.9	1949.0	1846.7	1826.2	1819.9	1779.0	1749.1
12.5°	2493.7	2393.0	2237.1	2101.7	1950.6	1838.8	1736.5	1678.2	1673.5	1654.6	1634.2
15°	2536.3	2424.5	2215.1	2030.9	1846.7	1728.6	1634.2	1558.6	1520.8	1519.2	1503.5
17.5°	2613.4	2460.7	2180.5	1958.5	1763.3	1631.0	1495.6	1467.3	1404.3	1368.1	1358.7
20°	2692.1	2514.2	2171.0	1886.1	1654.6	1490.9	1387.0	1308.3	1257.9	1220.1	1196.5
22.5°	2794.4	2591.4	2174.2	1843.5	1566.5	1385.4	1250.0	1133.5	1040.6	995.0	972.9
25°	2942.4	2681.1	2197.8	1779.0	1462.6	1272.1	1075.3	921.0	790.3	757.3	741.5
27.5°	3131.4	2807.0	2230.8	1712.9	1366.5	1119.4	864.3	691.1	582.5	557.3	541.6
30°	3421.0	2996.0	2235.6	1671.9	1279.9	921.0	647.1	511.7	426.6	399.9	403.0
32.5°	3965.8	3400.6	2298.5	1586.9	1125.6	706.9	475.4	373.1	308.6	299.1	314.9
35°	4598.6	3877.6	2419.8	1542.8	949.3	511.7	340.1	273.9	233.0	245.6	251.9
37.5°	5006.4	4297.9	2613.4	1442.1	743.1	376.3	237.7	214.1	206.2	214.1	228.3
40°	5481.8	4639.6	2778.7	1339.8	527.4	258.2	190.5	195.2	185.8	184.2	190.5
42.5°	5867.5	4990.6	2955.0	1171.3	366.8	192.1	174.8	177.9	171.6	163.7	163.7
45°	6234.4	5294.5	2953.5	944.6	242.4	170.0	160.6	166.9	165.3	154.3	152.7
47.5°	6555.5	5601.5	2955.0	686.4	184.2	155.9	149.6	155.9	155.9	146.4	144.8
50°	6953.8	5856.5	2907.8	439.2	168.5	144.8	143.3	141.7	148.0	135.4	132.2
52.5°	7197.9	6042.3	2695.3	296.0	155.9	137.0	133.8	130.7	133.8	122.8	122.8
55°	7465.5	6273.7	2418.2	234.6	148.0	127.5	125.9	122.8	122.8	110.2	111.8
57.5°	7756.7	6462.6	2045.1	206.2	141.7	121.2	118.1	113.4	107.1	97.6	96.0
60°	7967.7	6502.0	1673.5	187.3	137.0	118.1	105.5	99.2	88.2	81.9	80.3
62.5°	8038.6	6522.5	1357.1	168.5	129.1	108.6	94.5	83.4	70.8	66.1	66.1
65°	7980.3	6286.3	1017.0	152.7	119.6	100.8	83.4	67.7	55.1	50.4	48.8
67.5°	7605.6	5851.8	739.9	137.0	105.5	91.3	72.4	55.1	44.1	39.4	39.4
70°	6923.9	5340.1	500.6	114.9	91.3	80.3	67.7	44.1	36.2	31.5	29.9
72.5°	6180.8	4527.8	319.6	92.9	70.8	63.0	48.8	37.8	29.9	23.6	23.6
75°	4888.3	3556.4	222.0	67.7	50.4	47.2	37.8	31.5	25.2	18.9	18.9
77.5°	3402.1	2311.1	174.8	52.0	34.6	31.5	28.3	23.6	20.5	15.7	14.2
80°	1972.6	1390.1	105.5	34.6	23.6	20.5	18.9	18.9	15.7	11.0	11.0
82.5°	979.2	579.4	45.7	22.0	15.7	14.2	12.6	11.0	11.0	7.9	7.9
85°	192.1	99.2	17.3	11.0	7.9	7.9	6.3	6.3	4.7	3.1	3.1
87.5°	6.3	4.7	4.7	4.7	3.1	3.1	1.6	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)