

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: P509204

Luminaire Tested: **VERD-CA2-130-727-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509204
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-CA2-130-727-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1180mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14056 lumens
Efficiency: N/A
Efficacy: 106.6 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

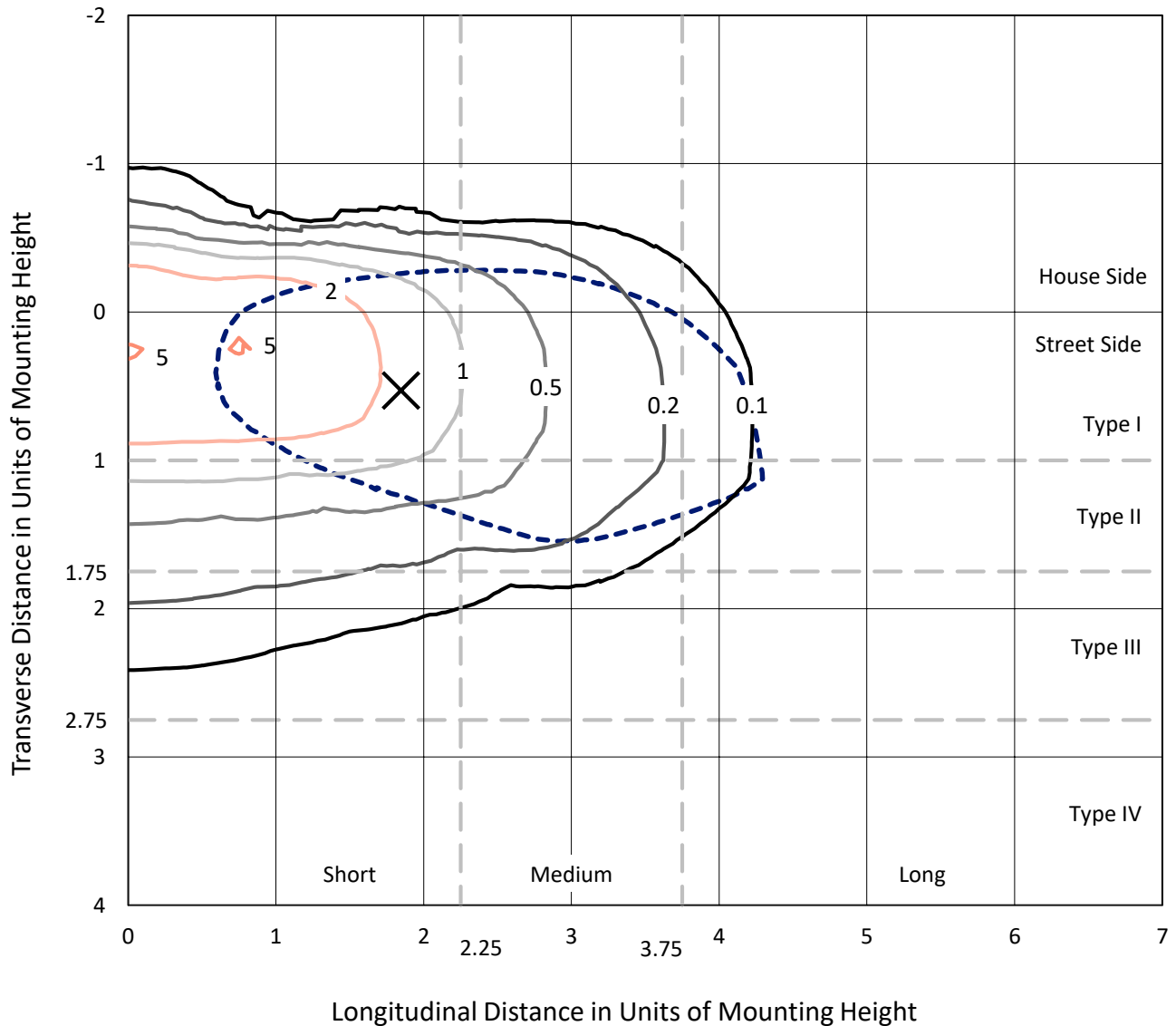
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

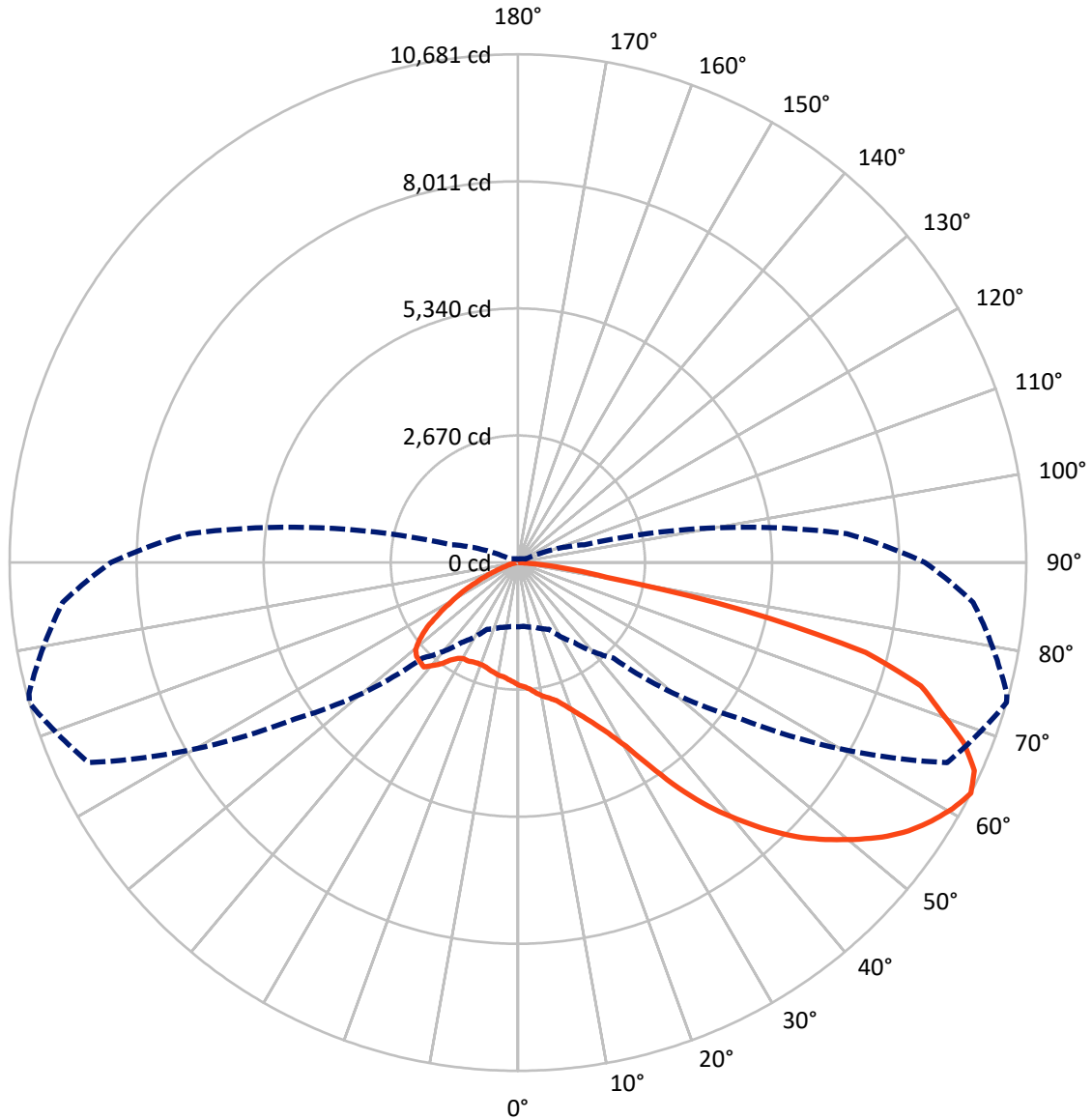
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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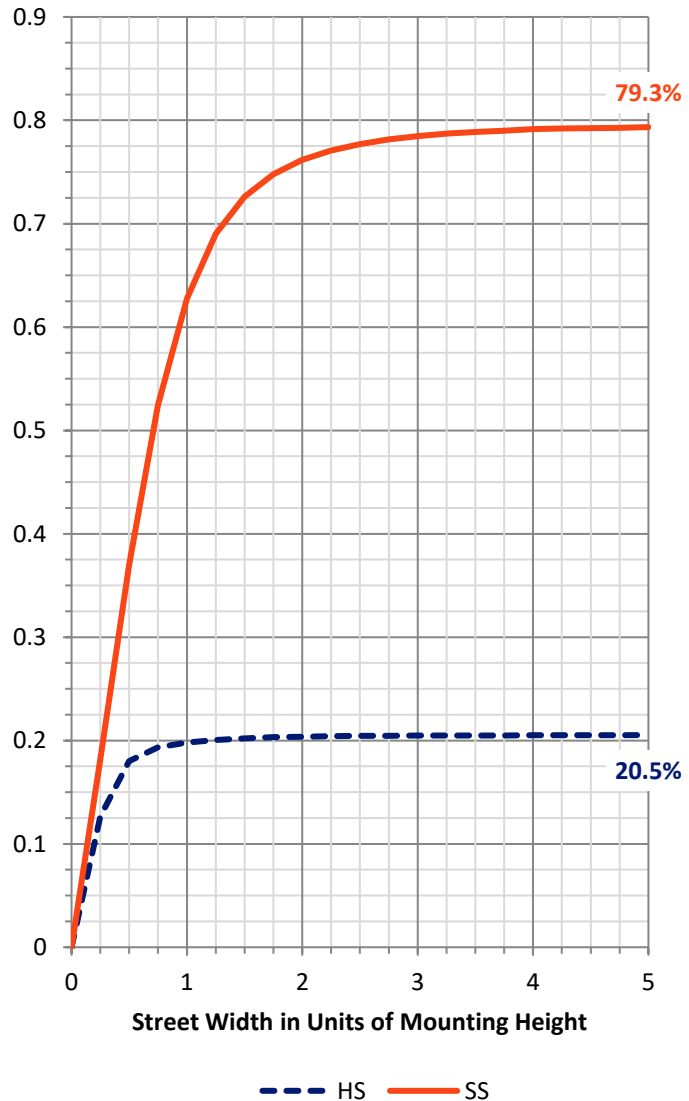
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2918.8	0.0	2918.8
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	11137.2	0.0	11137.2
	% Fixture	79.2	0.0	79.2
Total	Lumens	14056.0	0.0	14056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.6	1.7
10°-20°	741.9	5.3
20°-30°	1252.5	8.9
30°-40°	1862.9	13.3
40°-50°	2521.4	17.9
50°-60°	2900.9	20.6
60°-70°	2800.1	19.9
70°-80°	1585.3	11.3
80°-90°	145.4	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°	14056.0	100.0
0°-180°	14056.0	100.0

Coefficient of Utilization



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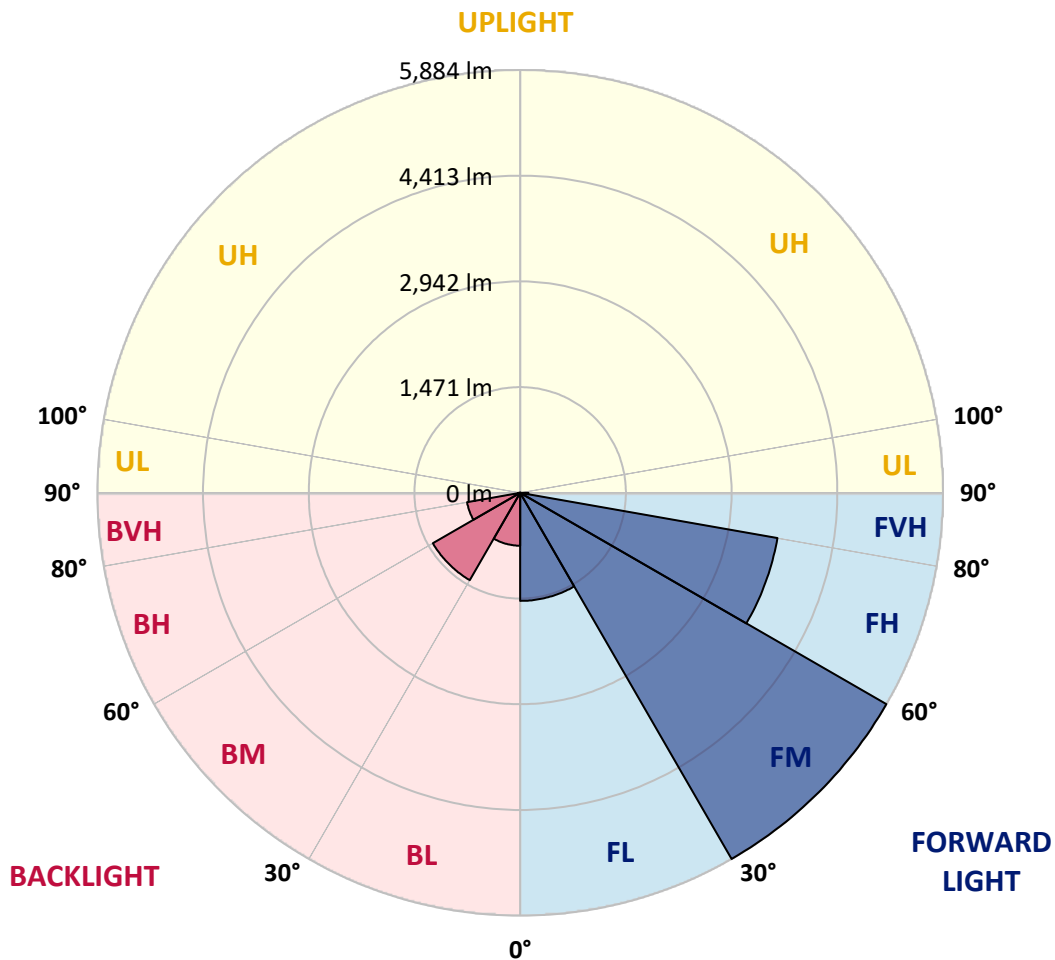
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1504.0	10.7			
FM (30°-60°)	5883.6	41.9			
FH (60°-80°)	3635.0	25.9			G2/5000
FVH (80°-90°)	114.6	0.8			G2/225
BL (0°-30°)	736.0	5.2	B2/1000		
BM (30°-60°)	1401.6	10.0	B2/2500		
BH (60°-80°)	750.4	5.3	B2/1000		G2/1000
BVH (80°-90°)	30.8	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°	2576.4	2576.4	2576.4	2576.4	2576.4	2576.4	2576.4	2576.4	2576.4	2576.4	2576.4
2.5°	2809.2	2790.8	2775.7	2767.4	2743.9	2723.8	2683.6	2641.7	2613.2	2611.6	2584.8
5°	2926.5	2924.8	2891.3	2884.6	2852.8	2842.7	2802.5	2742.2	2671.9	2663.5	2591.5
7.5°	3080.6	3062.2	3025.3	3010.3	2973.4	2946.6	2893.0	2836.0	2765.7	2757.3	2631.7
10°	3229.7	3219.7	3197.9	3199.6	3147.6	3097.4	3017.0	2919.8	2852.8	2842.7	2688.6
12.5°	3402.2	3370.4	3333.6	3313.5	3261.5	3229.7	3152.6	3025.3	2919.8	2909.8	2755.6
15°	3521.2	3504.4	3470.9	3457.5	3407.3	3355.3	3266.6	3167.7	3008.6	2998.5	2824.3
17.5°	3648.5	3640.1	3601.6	3593.2	3544.6	3482.7	3414.0	3285.0	3145.9	3129.2	2906.4
20°	3733.9	3718.9	3713.8	3712.2	3698.8	3660.2	3573.1	3472.6	3318.5	3288.3	3011.9
22.5°	3847.8	3832.8	3839.5	3846.2	3864.6	3847.8	3790.9	3671.9	3519.5	3492.7	3177.8
25°	3859.6	3849.5	3894.7	3988.6	4025.4	4043.8	4000.3	3908.1	3760.7	3725.6	3375.4
27.5°	3891.4	3876.3	3924.9	4023.7	4189.6	4218.1	4226.4	4182.9	4058.9	4038.8	3643.5
30°	3834.4	3824.4	3899.8	4069.0	4254.9	4415.7	4477.7	4538.0	4481.1	4445.9	4017.0
32.5°	3695.4	3702.1	3800.9	4025.4	4368.8	4616.7	4777.6	4990.3	5092.5	5085.8	4678.7
35°	3492.7	3489.4	3655.2	3971.8	4378.9	4806.0	5105.9	5538.1	5824.5	5804.4	5373.9
37.5°	3320.2	3311.8	3499.4	3836.1	4387.2	4956.8	5491.2	6136.1	6499.6	6479.5	5941.8
40°	3109.1	3122.5	3290.0	3678.6	4316.9	5069.0	5826.2	6717.4	7089.3	7089.3	6529.8
42.5°	2896.4	2908.1	3073.9	3459.2	4214.7	5151.1	6141.1	7297.0	7675.6	7684.0	6933.5
45°	2710.4	2715.4	2866.2	3213.0	4030.4	5164.5	6430.9	7878.3	8225.0	8203.3	7394.2
47.5°	2383.8	2439.0	2675.2	2991.8	3779.2	5105.9	6675.5	8395.9	8697.4	8652.2	7833.0
50°	1899.6	1899.6	2226.3	2780.8	3491.0	4950.1	6868.2	8868.3	9146.4	9104.5	8216.7
52.5°	1745.5	1748.9	1849.4	2484.3	3199.6	4682.1	6978.7	9337.3	9586.9	9558.5	8580.2
55°	1663.4	1668.5	1715.4	2013.5	2934.9	4271.7	6982.1	9700.8	9960.5	9896.8	8886.7
57.5°	1539.5	1531.1	1629.9	1794.1	2625.0	3742.3	6817.9	9982.3	10250.3	10201.7	9138.0
60°	1452.4	1439.0	1506.0	1653.4	2291.6	3194.5	6380.7	10186.6	10498.2	10526.7	9384.2
62.5°	1350.2	1345.2	1408.8	1547.8	2045.4	2836.0	5724.0	9948.8	10680.8	10635.6	9602.0
65°	1248.0	1237.9	1298.2	1407.1	1807.5	2542.9	5062.3	9597.0	10540.1	10580.3	9645.6
67.5°	1114.0	1112.3	1169.3	1249.7	1547.8	2214.6	4104.1	9134.6	10104.6	10076.1	9250.2
70°	951.5	951.5	1008.4	1078.8	1293.2	1889.6	3151.0	8342.3	9434.5	9600.3	8573.5
72.5°	768.9	772.2	829.2	909.6	1067.1	1539.5	2323.4	7255.1	8853.2	8586.9	7618.6
75°	410.4	368.5	650.0	732.0	861.0	1227.9	1589.7	4717.2	7549.9	7365.7	6320.4
77.5°	98.8	103.9	204.4	380.3	459.0	680.1	782.3	2184.4	4868.0	5161.2	4507.9
80°	65.3	72.0	110.6	269.7	306.6	361.8	309.9	951.5	1887.9	2011.9	2616.6
82.5°	33.5	36.9	68.7	107.2	108.9	93.8	117.3	479.1	998.4	1082.2	1258.0
85°	11.7	18.4	35.2	46.9	43.6	35.2	28.5	118.9	236.2	263.0	273.1
87.5°	0.0	0.0	5.0	5.0	3.4	3.4	5.0	5.0	6.7	5.0	5.0
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°	2576.4	2576.4	2576.4	2576.4	2576.4	2576.4	2576.4	2576.4	2576.4	2576.4	2576.4
2.5°	2563.0	2544.6	2516.1	2485.9	2454.1	2427.3	2412.2	2420.6	2430.7	2398.8	2387.1
5°	2558.0	2526.1	2472.5	2408.9	2360.3	2311.7	2254.8	2241.4	2228.0	2211.2	2192.8
7.5°	2581.4	2534.5	2425.6	2367.0	2264.8	2174.4	2124.1	2087.2	2053.7	2023.6	2005.2
10°	2625.0	2537.9	2415.6	2296.6	2184.4	2073.8	1965.0	1943.2	1936.5	1892.9	1861.1
12.5°	2653.5	2546.2	2380.4	2236.3	2075.5	1956.6	1847.7	1785.7	1780.7	1760.6	1738.8
15°	2698.7	2579.7	2356.9	2161.0	1965.0	1839.3	1738.8	1658.4	1618.2	1616.5	1599.8
17.5°	2780.8	2618.3	2320.1	2083.9	1876.2	1735.5	1591.4	1561.2	1494.2	1455.7	1445.7
20°	2864.5	2675.2	2310.0	2006.8	1760.6	1586.4	1475.8	1392.1	1338.5	1298.2	1273.1
22.5°	2973.4	2757.3	2313.4	1961.6	1666.8	1474.1	1330.1	1206.1	1107.3	1058.7	1035.2
25°	3130.9	2852.8	2338.5	1892.9	1556.2	1353.5	1144.1	980.0	840.9	805.8	789.0
27.5°	3331.9	2986.8	2373.7	1822.6	1454.0	1191.0	919.7	735.4	619.8	593.0	576.3
30°	3640.1	3187.8	2378.7	1779.0	1361.9	980.0	688.5	544.4	454.0	425.5	428.8
32.5°	4219.7	3618.3	2445.7	1688.6	1197.7	752.1	505.9	397.0	328.3	318.3	335.0
35°	4893.1	4125.9	2574.7	1641.7	1010.1	544.4	361.8	291.5	247.9	261.3	268.0
37.5°	5327.0	4573.2	2780.8	1534.4	790.7	400.4	252.9	227.8	219.4	227.8	242.9
40°	5832.9	4936.7	2956.7	1425.6	561.2	274.7	202.7	207.7	197.7	196.0	202.7
42.5°	6243.3	5310.3	3144.3	1246.3	390.3	204.4	185.9	189.3	182.6	174.2	174.2
45°	6633.6	5633.6	3142.6	1005.1	258.0	180.9	170.9	177.6	175.9	164.2	162.5
47.5°	6975.4	5960.2	3144.3	730.4	196.0	165.8	159.1	165.8	165.8	155.8	154.1
50°	7399.2	6231.6	3094.0	467.4	179.2	154.1	152.4	150.8	157.5	144.1	140.7
52.5°	7658.8	6429.3	2867.9	314.9	165.8	145.7	142.4	139.0	142.4	130.7	130.7
55°	7943.6	6675.5	2573.0	249.6	157.5	135.7	134.0	130.7	130.7	117.3	118.9
57.5°	8253.5	6876.5	2176.0	219.4	150.8	129.0	125.6	120.6	113.9	103.9	102.2
60°	8478.0	6918.4	1780.7	199.3	145.7	125.6	112.2	105.5	93.8	87.1	85.4
62.5°	8553.4	6940.2	1444.0	179.2	137.4	115.6	100.5	88.8	75.4	70.4	70.4
65°	8491.4	6688.9	1082.2	162.5	127.3	107.2	88.8	72.0	58.6	53.6	51.9
67.5°	8092.7	6226.6	787.3	145.7	112.2	97.2	77.1	58.6	46.9	41.9	41.9
70°	7367.4	5682.1	532.7	122.3	97.2	85.4	72.0	46.9	38.5	33.5	31.8
72.5°	6576.7	4817.8	340.1	98.8	75.4	67.0	51.9	40.2	31.8	25.1	25.1
75°	5201.4	3784.2	236.2	72.0	53.6	50.3	40.2	33.5	26.8	20.1	20.1
77.5°	3620.0	2459.1	185.9	55.3	36.9	33.5	30.2	25.1	21.8	16.8	15.1
80°	2099.0	1479.2	112.2	36.9	25.1	21.8	20.1	20.1	16.8	11.7	11.7
82.5°	1041.9	616.5	48.6	23.5	16.8	15.1	13.4	11.7	11.7	8.4	8.4
85°	204.4	105.5	18.4	11.7	8.4	8.4	6.7	6.7	5.0	3.4	3.4
87.5°	6.7	5.0	5.0	5.0	3.4	3.4	1.7	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)