

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: P509236

Luminaire Tested: **VERD-CA2-130-760-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509236
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-CA2-130-760-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1180mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16545 lumens
Efficiency: N/A
Efficacy: 125.5 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

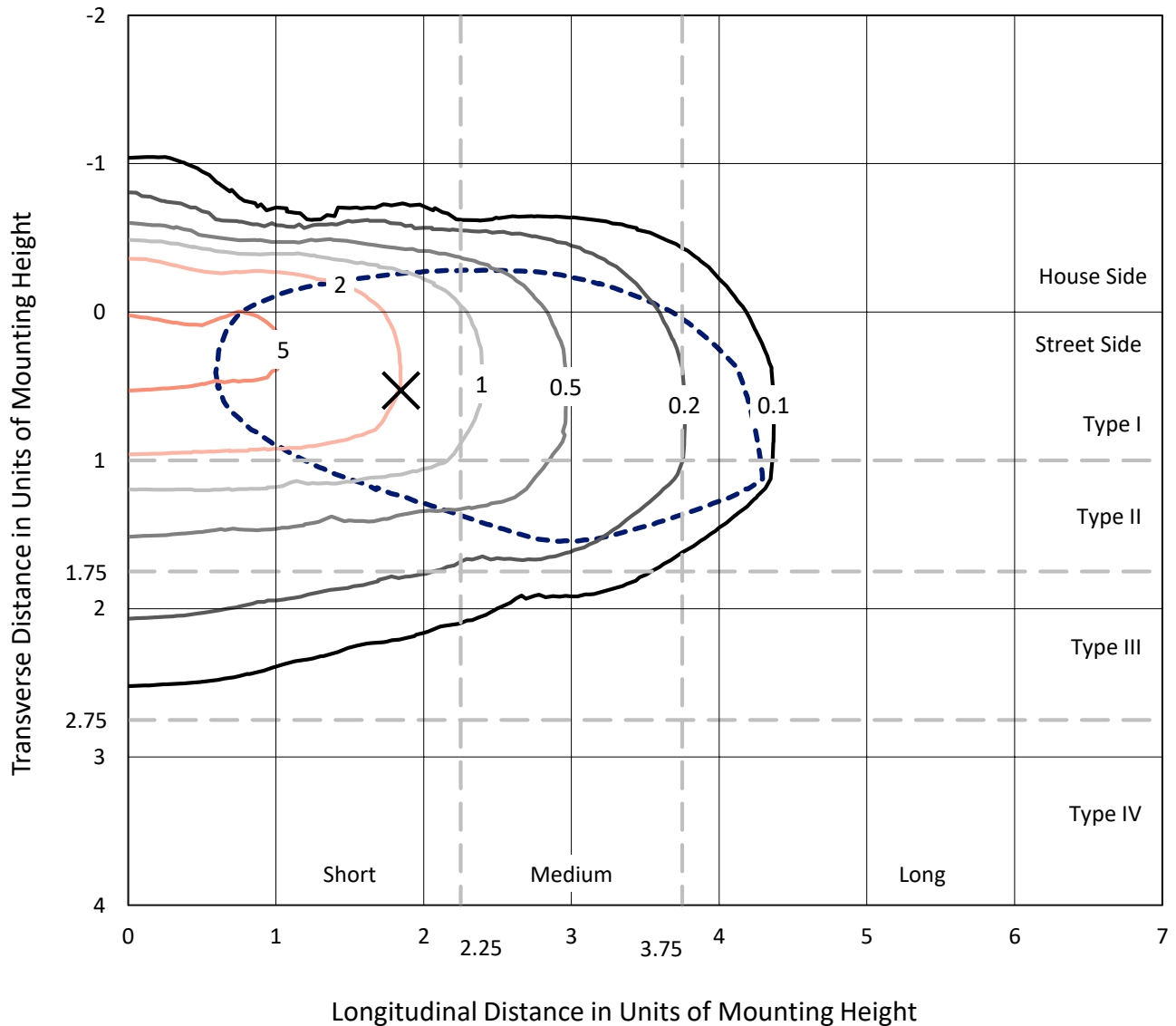
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

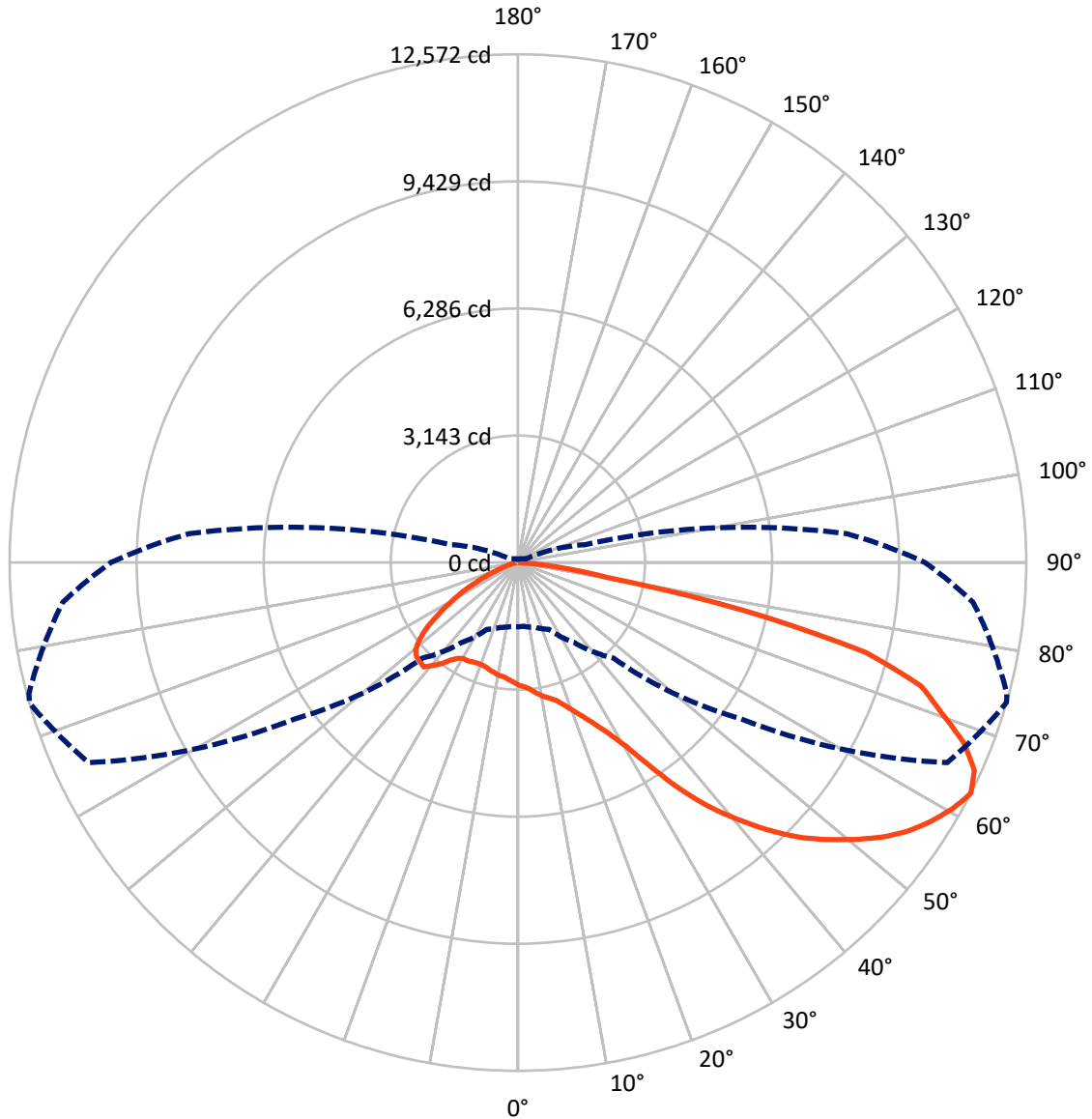
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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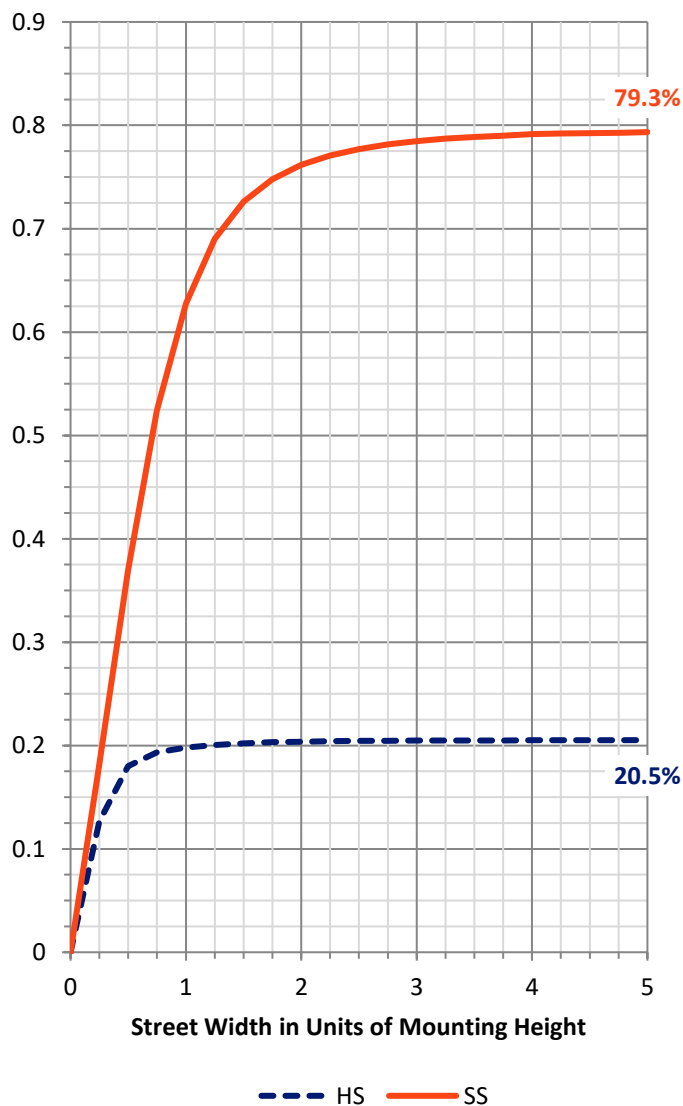
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3435.7	0.0	3435.7
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	13109.3	0.0	13109.3
	% Fixture	79.2	0.0	79.2
Total	Lumens	16545.0	0.0	16545.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.1	1.7
10°-20°	873.2	5.3
20°-30°	1474.3	8.9
30°-40°	2192.8	13.3
40°-50°	2967.9	17.9
50°-60°	3414.5	20.6
60°-70°	3295.9	19.9
70°-80°	1866.1	11.3
80°-90°	171.2	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°	16545.0	100.0
0°-180°	16545.0	100.0



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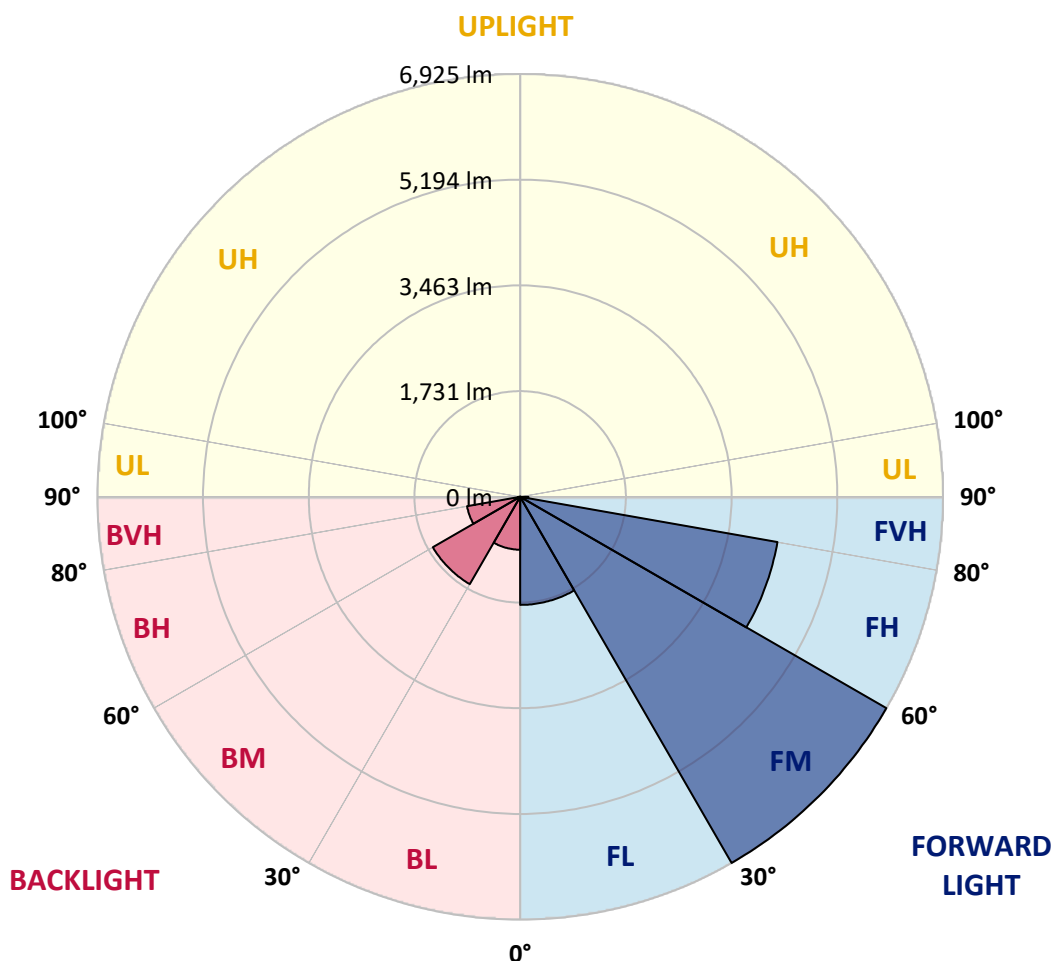
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1770.3	10.7			
FM (30°-60°)	6925.4	41.9			
FH (60°-80°)	4278.7	25.9			G2/5000
FVH (80°-90°)	134.9	0.8			G2/225
BL (0°-30°)	866.3	5.2	B2/1000		
BM (30°-60°)	1649.8	10.0	B2/2500		
BH (60°-80°)	883.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	36.3	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°	3032.6	3032.6	3032.6	3032.6	3032.6	3032.6	3032.6	3032.6	3032.6	3032.6	3032.6
2.5°	3306.7	3285.0	3267.3	3257.4	3229.8	3206.1	3158.8	3109.5	3076.0	3074.0	3042.5
5°	3444.7	3442.7	3403.3	3395.4	3358.0	3346.1	3298.8	3227.8	3145.0	3135.1	3050.4
7.5°	3626.1	3604.4	3561.1	3543.3	3499.9	3468.4	3405.3	3338.2	3255.4	3245.6	3097.7
10°	3801.6	3789.8	3764.2	3766.1	3705.0	3645.8	3551.2	3436.8	3358.0	3346.1	3164.7
12.5°	4004.7	3967.2	3923.9	3900.2	3839.1	3801.6	3710.9	3561.1	3436.8	3425.0	3243.6
15°	4144.7	4125.0	4085.6	4069.8	4010.6	3949.5	3845.0	3728.7	3541.3	3529.5	3324.4
17.5°	4294.6	4284.7	4239.4	4229.5	4172.3	4099.4	4018.5	3866.7	3703.0	3683.3	3421.1
20°	4395.1	4377.4	4371.5	4369.5	4353.7	4308.4	4205.8	4087.5	3906.1	3870.6	3545.3
22.5°	4529.2	4511.5	4519.3	4527.2	4548.9	4529.2	4462.2	4322.2	4142.7	4111.2	3740.5
25°	4543.0	4531.2	4584.4	4694.8	4738.2	4759.9	4708.6	4600.2	4426.7	4385.3	3973.2
27.5°	4580.5	4562.7	4619.9	4736.2	4931.5	4965.0	4974.8	4923.6	4777.7	4754.0	4288.6
30°	4513.4	4501.6	4590.3	4789.5	5008.4	5197.6	5270.6	5341.6	5274.5	5233.1	4728.4
32.5°	4349.8	4357.7	4474.0	4738.2	5142.4	5434.3	5623.6	5874.0	5994.2	5986.4	5507.2
35°	4111.2	4107.2	4302.5	4675.1	5154.3	5657.1	6010.0	6518.7	6855.9	6832.3	6325.5
37.5°	3908.1	3898.2	4119.1	4515.4	5164.1	5834.5	6463.5	7222.7	7650.6	7626.9	6993.9
40°	3659.6	3675.4	3872.6	4330.1	5081.3	5966.6	6857.9	7906.9	8344.6	8344.6	7686.0
42.5°	3409.2	3423.0	3618.2	4071.8	4961.0	6063.3	7228.6	8589.1	9034.8	9044.6	8161.2
45°	3190.4	3196.3	3373.7	3781.9	4744.1	6079.0	7569.7	9273.3	9681.5	9655.9	8703.5
47.5°	2805.9	2870.9	3149.0	3521.6	4448.4	6010.0	7857.6	9882.6	10237.5	10184.3	9220.1
50°	2236.0	2236.0	2620.5	3273.2	4109.2	5826.6	8084.3	10438.7	10766.0	10716.7	9671.6
52.5°	2054.6	2058.6	2176.9	2924.2	3766.1	5511.2	8214.5	10990.8	11284.6	11251.0	10099.5
55°	1958.0	1963.9	2019.1	2370.1	3454.6	5028.1	8218.4	11418.6	11724.3	11649.3	10460.4
57.5°	1812.1	1802.2	1918.6	2111.8	3089.8	4405.0	8025.2	11749.9	12065.4	12008.2	10756.1
60°	1709.5	1693.8	1772.6	1946.2	2697.4	3760.2	7510.6	11990.5	12357.2	12390.7	11046.0
62.5°	1589.3	1583.3	1658.3	1821.9	2407.6	3338.2	6737.6	11710.5	12572.1	12518.9	11302.3
65°	1469.0	1457.2	1528.1	1656.3	2127.6	2993.2	5958.8	11296.4	12406.5	12453.8	11353.6
67.5°	1311.2	1309.3	1376.3	1471.0	1821.9	2606.7	4830.9	10752.2	11893.9	11860.3	10888.2
70°	1120.0	1120.0	1187.0	1269.8	1522.2	2224.2	3708.9	9819.5	11105.1	11300.3	10091.6
72.5°	905.1	909.0	976.0	1070.7	1256.0	1812.1	2734.9	8539.8	10420.9	10107.4	8967.7
75°	483.1	433.8	765.1	861.7	1013.5	1445.3	1871.2	5552.6	8886.9	8670.0	7439.6
77.5°	116.3	122.3	240.6	447.6	540.3	800.5	920.8	2571.2	5730.0	6075.1	5306.1
80°	76.9	84.8	130.1	317.5	360.8	425.9	364.8	1120.0	2222.2	2368.1	3079.9
82.5°	39.4	43.4	80.8	126.2	128.2	110.4	138.0	563.9	1175.2	1273.8	1480.8
85°	13.8	21.7	41.4	55.2	51.3	41.4	33.5	140.0	278.0	309.6	321.4
87.5°	0.0	0.0	5.9	5.9	3.9	3.9	5.9	5.9	7.9	5.9	5.9
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°	3032.6	3032.6	3032.6	3032.6	3032.6	3032.6	3032.6	3032.6	3032.6	3032.6	3032.6
2.5°	3016.8	2995.2	2961.6	2926.1	2888.7	2857.1	2839.4	2849.2	2861.1	2823.6	2809.8
5°	3010.9	2973.5	2910.4	2835.4	2778.3	2721.1	2654.0	2638.3	2622.5	2602.8	2581.1
7.5°	3038.5	2983.3	2855.2	2786.1	2665.9	2559.4	2500.2	2456.9	2417.4	2381.9	2360.2
10°	3089.8	2987.3	2843.3	2703.3	2571.2	2441.1	2312.9	2287.3	2279.4	2228.1	2190.7
12.5°	3123.3	2997.1	2801.9	2632.3	2443.1	2303.1	2174.9	2101.9	2096.0	2072.4	2046.7
15°	3176.6	3036.6	2774.3	2543.6	2312.9	2165.0	2046.7	1952.1	1904.8	1902.8	1883.1
17.5°	3273.2	3081.9	2730.9	2452.9	2208.4	2042.8	1873.2	1837.7	1758.8	1713.5	1701.7
20°	3371.8	3149.0	2719.1	2362.2	2072.4	1867.3	1737.1	1638.6	1575.5	1528.1	1498.6
22.5°	3499.9	3245.6	2723.0	2309.0	1961.9	1735.2	1565.6	1419.7	1303.4	1246.2	1218.6
25°	3685.3	3358.0	2752.6	2228.1	1831.8	1593.2	1346.7	1153.5	989.8	948.4	928.7
27.5°	3921.9	3515.7	2794.0	2145.3	1711.5	1401.9	1082.5	865.6	729.6	698.0	678.3
30°	4284.7	3752.3	2799.9	2094.0	1603.1	1153.5	810.4	640.8	534.4	500.8	504.8
32.5°	4966.9	4259.1	2878.8	1987.6	1409.8	885.3	595.5	467.3	386.5	374.6	394.4
35°	5759.6	4856.5	3030.6	1932.4	1189.0	640.8	425.9	343.1	291.8	307.6	315.5
37.5°	6270.3	5383.0	3273.2	1806.2	930.7	471.3	297.7	268.2	258.3	268.2	285.9
40°	6865.8	5810.9	3480.2	1678.0	660.6	323.4	238.6	244.5	232.7	230.7	238.6
42.5°	7348.9	6250.6	3701.1	1467.0	459.4	240.6	218.9	222.8	214.9	205.1	205.1
45°	7808.3	6631.1	3699.1	1183.1	303.7	213.0	201.1	209.0	207.0	193.2	191.3
47.5°	8210.5	7015.6	3701.1	859.7	230.7	195.2	187.3	195.2	195.2	183.4	181.4
50°	8709.4	7335.1	3641.9	550.1	211.0	181.4	179.4	177.5	185.3	169.6	165.6
52.5°	9015.0	7567.7	3375.7	370.7	195.2	171.5	167.6	163.7	167.6	153.8	153.8
55°	9350.2	7857.6	3028.7	293.8	185.3	159.7	157.7	153.8	153.8	138.0	140.0
57.5°	9715.0	8094.2	2561.4	258.3	177.5	151.8	147.9	142.0	134.1	122.3	120.3
60°	9979.2	8143.5	2096.0	234.6	171.5	147.9	132.1	124.2	110.4	102.5	100.6
62.5°	10068.0	8169.1	1699.7	211.0	161.7	136.1	118.3	104.5	88.7	82.8	82.8
65°	9995.0	7873.4	1273.8	191.3	149.9	126.2	104.5	84.8	69.0	63.1	61.1
67.5°	9525.7	7329.2	926.7	171.5	132.1	114.4	90.7	69.0	55.2	49.3	49.3
70°	8671.9	6688.3	627.0	143.9	114.4	100.6	84.8	55.2	45.4	39.4	37.5
72.5°	7741.3	5670.9	400.3	116.3	88.7	78.9	61.1	47.3	37.5	29.6	29.6
75°	6122.4	4454.3	278.0	84.8	63.1	59.2	47.3	39.4	31.5	23.7	23.7
77.5°	4261.0	2894.6	218.9	65.1	43.4	39.4	35.5	29.6	25.6	19.7	17.7
80°	2470.7	1741.1	132.1	43.4	29.6	25.6	23.7	23.7	19.7	13.8	13.8
82.5°	1226.5	725.6	57.2	27.6	19.7	17.7	15.8	13.8	13.8	9.9	9.9
85°	240.6	124.2	21.7	13.8	9.9	9.9	7.9	7.9	5.9	3.9	3.9
87.5°	7.9	5.9	5.9	5.9	3.9	3.9	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)