

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: P509860

Luminaire Tested: **VERD-M-CA3-150-760-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-150-760-U-T2-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 940mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20182 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

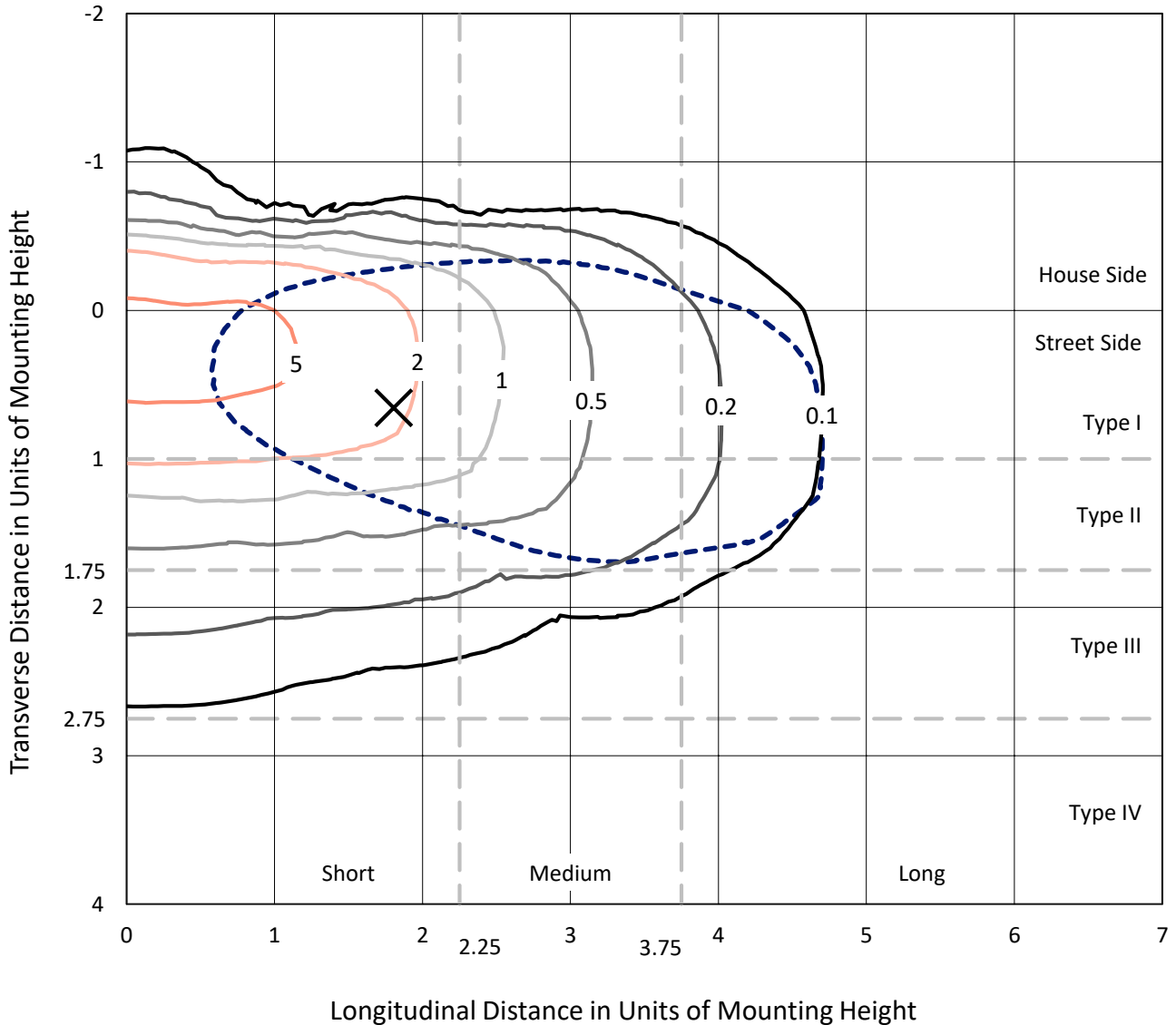
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509860
 CATALOG NUMBER: VERD-M-CA3-150-760-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

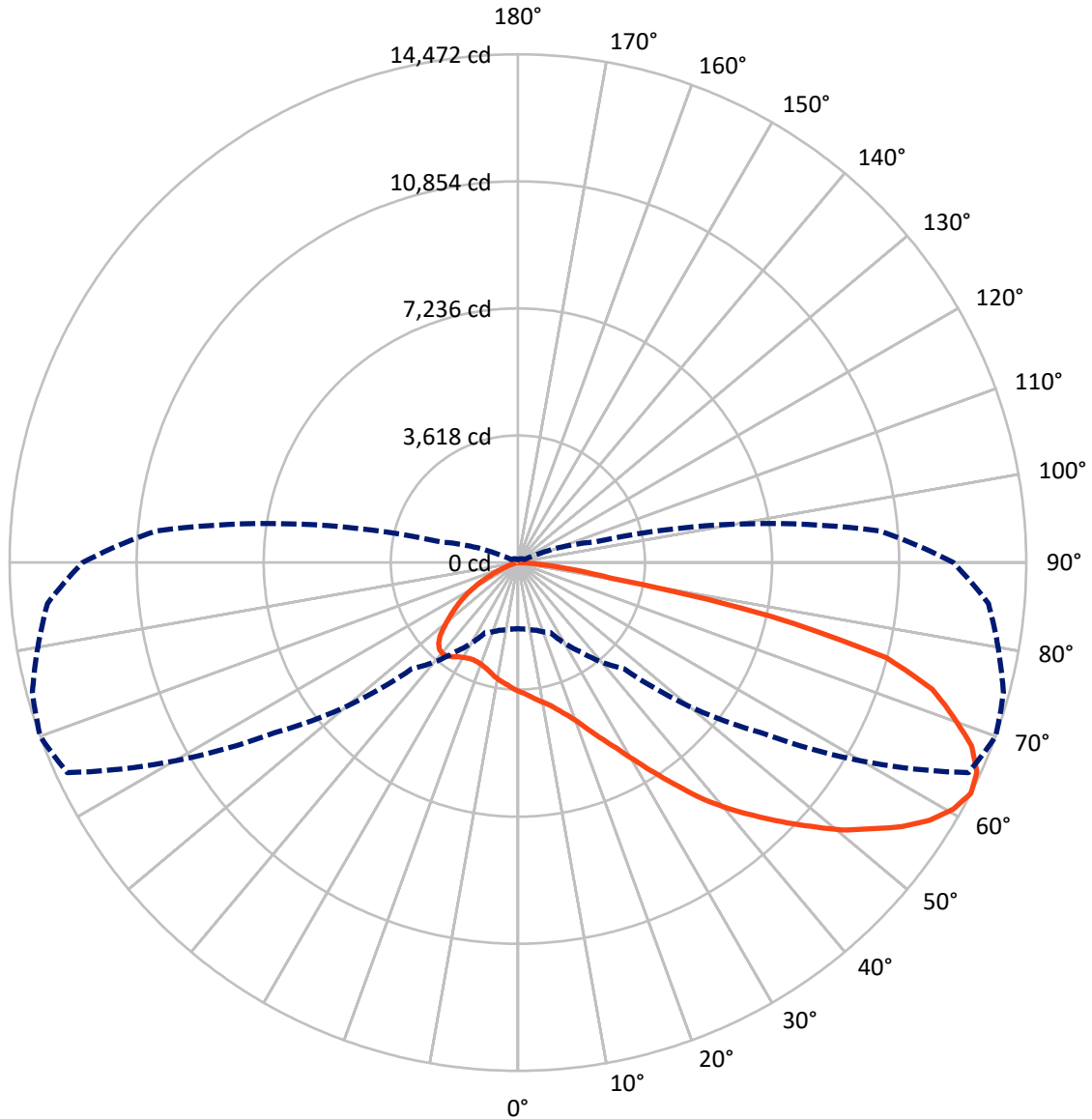
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

REPORT NUMBER: P509860
CATALOG NUMBER: VERD-M-CA3-150-760-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P509860
 CATALOG NUMBER: VERD-M-CA3-150-760-U-T2-HSS

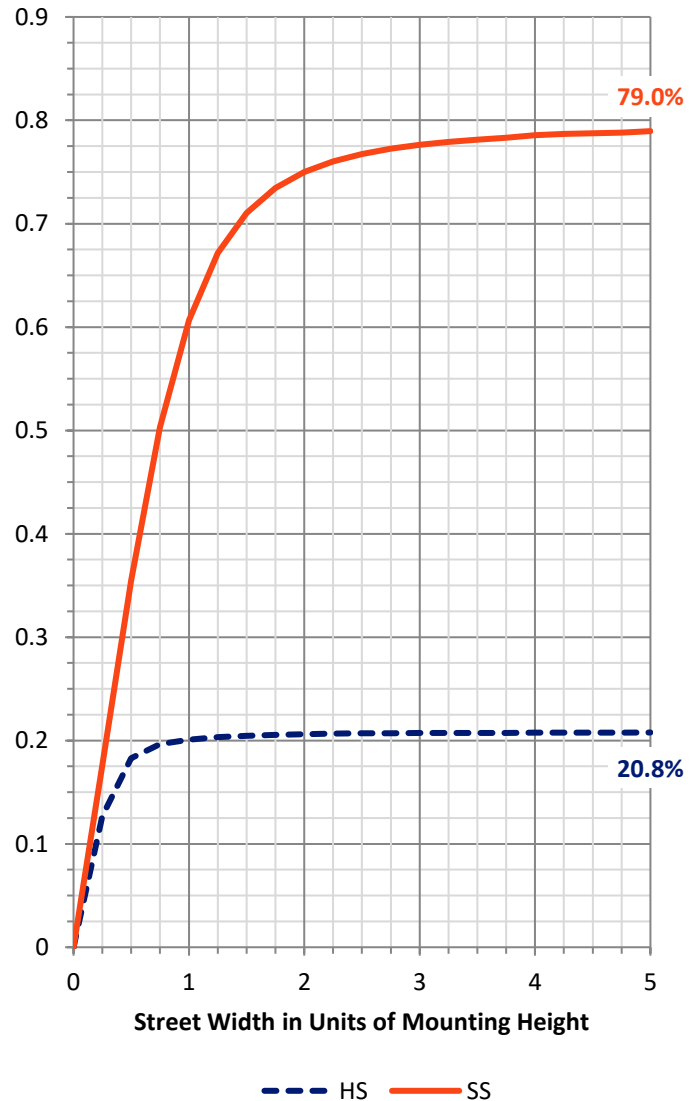
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4244.1	0.0	4244.1
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	15937.9	0.0	15937.9
	% Fixture	79.0	0.0	79.0
Total	Lumens	20182.0	0.0	20182.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.4	1.7
10°-20°	1039.6	5.2
20°-30°	1762.4	8.7
30°-40°	2591.7	12.8
40°-50°	3451.3	17.1
50°-60°	4037.3	20.0
60°-70°	4060.6	20.1
70°-80°	2570.4	12.7
80°-90°	320.3	1.6
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°	20182.0	100.0
0°-180°	20182.0	100.0



REPORT NUMBER: P509860

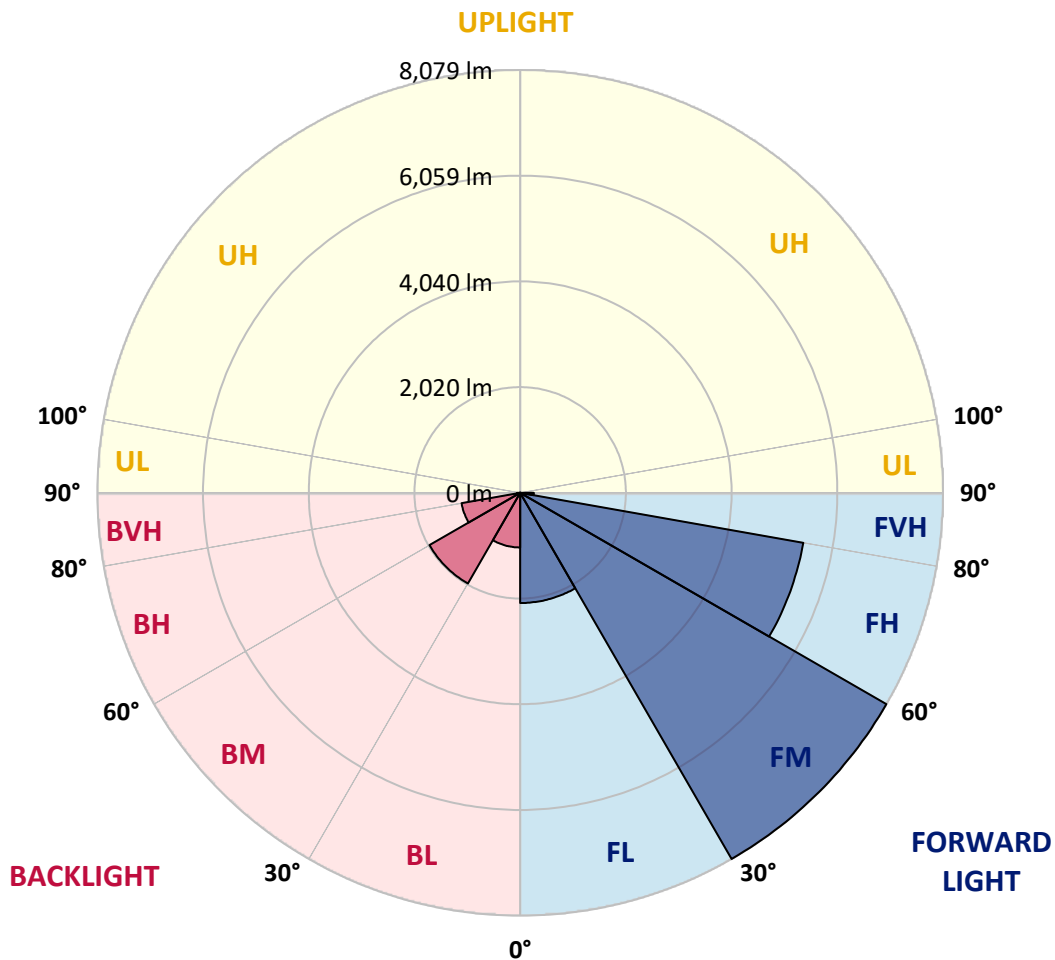
CATALOG NUMBER: VERD-M-CA3-150-760-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2105.4	10.4			
FM (30°-60°)	8079.2	40.0			
FH (60°-80°)	5493.5	27.2			G3/7500
FVH (80°-90°)	259.7	1.3			G3/500
BL (0°-30°)	1044.9	5.2	B3/2500		
BM (30°-60°)	2001.1	9.9	B2/2500		
BH (60°-80°)	1137.5	5.6	B3/2500		G3/2500
BVH (80°-90°)	60.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P509860

CATALOG NUMBER: VERD-M-CA3-150-760-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3669.0	3669.0	3669.0	3669.0	3669.0	3669.0	3669.0	3669.0	3669.0	3669.0	3669.0
2.5°	3870.4	3904.3	3878.4	3868.4	3876.4	3836.5	3804.6	3758.7	3736.8	3720.9	3695.0
5°	4066.7	4122.6	4088.7	4067.7	4064.8	3992.0	3949.1	3886.3	3837.5	3794.6	3728.8
7.5°	4274.1	4307.0	4294.0	4270.1	4254.1	4165.4	4089.7	4001.0	3947.1	3890.3	3779.7
10°	4455.5	4495.3	4482.4	4439.5	4424.6	4333.9	4247.2	4126.6	4052.8	3982.0	3829.5
12.5°	4642.9	4687.7	4660.8	4617.9	4605.0	4513.3	4423.6	4277.1	4185.4	4105.6	3894.3
15°	4815.3	4856.2	4837.2	4788.4	4775.4	4697.7	4599.0	4462.5	4362.8	4257.1	3986.0
17.5°	4952.9	4993.7	4969.8	4946.9	4942.9	4866.1	4807.3	4667.8	4573.1	4429.6	4126.6
20°	5053.5	5095.4	5083.4	5094.4	5136.3	5079.4	5043.6	4925.9	4829.3	4673.8	4328.9
22.5°	5133.3	5187.1	5234.9	5256.9	5334.6	5330.6	5322.7	5252.9	5177.1	5015.7	4570.1
25°	5141.2	5203.0	5297.7	5400.4	5541.9	5609.7	5659.6	5648.6	5559.9	5400.4	4904.0
27.5°	5153.2	5217.0	5314.7	5491.1	5744.3	5902.8	5985.5	6036.3	5984.5	5877.8	5283.8
30°	5127.3	5193.1	5315.7	5540.9	5882.8	6176.9	6324.4	6512.8	6518.8	6429.0	5856.9
32.5°	5009.7	5096.4	5244.9	5546.9	6017.4	6462.9	6690.2	7052.0	7130.8	7064.0	6448.0
35°	4813.3	4892.1	5104.4	5494.1	6099.1	6701.2	7116.8	7681.0	7797.6	7793.6	7143.7
37.5°	4596.0	4675.8	4915.0	5369.5	6151.9	6913.5	7492.6	8304.9	8537.2	8488.3	7800.6
40°	4355.8	4439.5	4715.6	5213.0	6126.0	7102.8	7890.3	8910.0	9198.0	9204.0	8428.5
42.5°	4076.7	4145.5	4422.6	4996.7	6040.3	7242.4	8260.1	9546.9	9849.9	9833.0	9020.6
45°	3809.6	3881.3	4123.6	4661.8	5842.0	7320.1	8622.9	10191.8	10523.7	10469.9	9678.5
47.5°	3486.6	3589.3	3865.4	4380.7	5536.0	7314.2	8939.9	10851.6	11224.4	11180.6	10246.6
50°	2683.3	2744.1	3369.0	4090.7	5121.3	7174.6	9249.9	11499.5	11971.0	11885.3	10852.6
52.5°	2417.1	2471.9	2673.3	3742.8	4744.5	6872.6	9508.0	12241.1	12594.0	12527.2	11471.6
55°	2284.6	2314.5	2437.1	3086.9	4376.7	6382.2	9680.4	12900.0	13266.8	13119.2	12050.7
57.5°	2118.1	2155.0	2297.5	2636.4	3924.2	5629.7	9640.6	13494.0	13832.9	13606.7	12561.1
60°	1990.5	2018.4	2152.0	2373.3	3456.7	4850.2	9232.9	14077.1	14247.6	14024.3	13069.4
62.5°	1882.9	1898.8	1992.5	2202.8	3100.9	4281.0	8437.5	14154.9	14471.8	14310.4	13448.2
65°	1749.3	1753.3	1863.9	2028.4	2772.0	3939.2	7754.7	13756.2	14360.2	14306.4	13584.7
67.5°	1592.8	1600.8	1712.4	1838.0	2376.3	3575.3	6691.2	13541.9	13926.6	13892.7	13314.6
70°	1396.4	1412.4	1515.1	1610.8	2012.4	3138.8	5325.6	12694.6	13151.1	13101.3	12424.5
72.5°	1207.1	1198.1	1293.8	1388.5	1676.5	2620.5	4036.8	11236.4	12335.8	12287.9	11268.3
75°	991.8	985.8	1084.5	1174.2	1374.5	2117.1	2839.7	8309.9	10838.7	10986.2	9716.3
77.5°	611.0	616.0	672.8	732.6	931.0	1581.8	1812.1	4622.9	7363.0	8731.5	7625.1
80°	442.6	442.6	484.4	520.3	616.0	963.9	902.1	1927.7	2691.2	4214.3	4755.5
82.5°	287.1	275.1	301.0	331.9	342.9	417.6	412.7	966.8	1371.5	1650.6	1980.5
85°	149.5	165.5	99.7	140.5	148.5	138.5	142.5	453.5	609.0	780.5	859.2
87.5°	22.9	17.9	23.9	32.9	37.9	31.9	27.9	52.8	81.7	108.6	128.6
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: P509860

CATALOG NUMBER: VERD-M-CA3-150-760-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3669.0	3669.0	3669.0	3669.0	3669.0	3669.0	3669.0	3669.0	3669.0	3669.0	3669.0
2.5°	3678.0	3673.0	3627.2	3560.4	3505.6	3459.7	3429.8	3409.9	3431.8	3391.9	3387.0
5°	3688.0	3654.1	3554.4	3458.7	3385.0	3286.3	3219.5	3174.7	3192.6	3157.7	3143.8
7.5°	3714.9	3653.1	3515.5	3363.0	3223.5	3117.8	3015.2	2916.5	2901.5	2879.6	2880.6
10°	3738.8	3650.1	3470.7	3271.3	3108.9	2922.5	2798.9	2697.2	2674.3	2648.4	2635.4
12.5°	3776.7	3657.1	3414.9	3173.7	2956.4	2741.1	2607.5	2487.9	2465.0	2414.1	2403.2
15°	3852.4	3682.0	3360.0	3053.0	2784.9	2567.6	2395.2	2290.5	2248.7	2191.9	2190.9
17.5°	3951.1	3754.8	3332.1	2939.4	2639.4	2396.2	2213.8	2108.1	2037.4	2003.5	1994.5
20°	4091.7	3849.5	3331.1	2836.8	2487.9	2212.8	2003.5	1883.9	1824.1	1796.1	1779.2
22.5°	4308.0	3989.0	3349.1	2765.0	2335.4	2035.4	1827.0	1662.6	1563.9	1487.2	1498.1
25°	4577.1	4198.3	3390.0	2699.2	2202.8	1865.9	1604.8	1376.5	1200.1	1123.3	1129.3
27.5°	4919.0	4448.5	3495.6	2632.4	2052.3	1683.5	1314.7	1024.7	891.1	801.4	808.4
30°	5356.5	4759.5	3634.2	2580.6	1912.8	1428.3	989.8	755.5	637.9	564.2	557.2
32.5°	5879.8	5210.0	3785.7	2545.7	1760.3	1109.4	713.7	554.2	439.6	397.7	403.7
35°	6527.7	5716.4	4016.9	2494.9	1499.1	789.4	509.3	374.8	316.0	308.0	309.0
37.5°	7118.8	6234.7	4246.2	2409.1	1183.1	561.2	345.9	285.1	272.1	269.1	273.1
40°	7697.9	6707.1	4453.5	2284.6	813.3	384.7	254.2	257.2	246.2	238.2	234.2
42.5°	8240.1	7162.7	4616.0	2055.3	556.2	254.2	225.3	234.2	232.2	216.3	209.3
45°	8825.2	7644.1	4705.7	1734.3	349.9	216.3	202.3	218.3	228.3	210.3	202.3
47.5°	9324.6	8113.6	4701.7	1328.7	237.2	204.3	190.4	204.3	216.3	203.3	196.4
50°	9900.7	8502.3	4574.1	843.3	210.3	189.4	182.4	187.4	203.3	194.4	187.4
52.5°	10540.6	9034.6	4380.7	470.5	199.4	179.4	169.4	175.4	189.4	178.4	182.4
55°	11070.9	9476.1	3926.2	321.0	194.4	167.5	161.5	165.5	171.4	160.5	166.5
57.5°	11544.4	9840.9	3466.7	263.1	187.4	159.5	158.5	150.5	149.5	142.5	136.6
60°	12023.8	10129.0	2846.7	238.2	180.4	160.5	143.5	132.6	123.6	116.6	113.6
62.5°	12391.6	10328.3	2251.7	215.3	170.4	150.5	131.6	113.6	98.7	89.7	89.7
65°	12499.3	10239.6	1584.8	195.4	159.5	141.5	117.6	92.7	74.8	68.8	65.8
67.5°	12154.4	9730.3	1103.4	180.4	148.5	131.6	103.7	75.8	59.8	51.8	49.8
70°	11276.2	8878.1	650.9	159.5	134.6	114.6	94.7	61.8	48.8	40.9	38.9
72.5°	9978.5	7600.2	405.7	135.6	115.6	93.7	70.8	50.8	38.9	31.9	30.9
75°	8242.1	5924.7	265.1	104.7	91.7	73.8	53.8	40.9	33.9	26.9	24.9
77.5°	6609.5	4191.3	237.2	79.7	67.8	52.8	40.9	33.9	27.9	23.9	23.9
80°	3803.6	2392.2	194.4	54.8	41.9	39.9	31.9	27.9	25.9	22.9	21.9
82.5°	1868.9	1149.3	125.6	33.9	23.9	25.9	26.9	24.9	21.9	19.9	19.9
85°	643.9	382.8	50.8	21.9	15.9	15.9	16.9	17.9	16.9	15.9	15.9
87.5°	99.7	72.8	14.0	13.0	10.0	9.0	10.0	11.0	11.0	10.0	10.0
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)