

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: P553632

Luminaire Tested: **VERD-G-CA2-160-760-U-T2-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-160-760-U-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1460mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20820 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

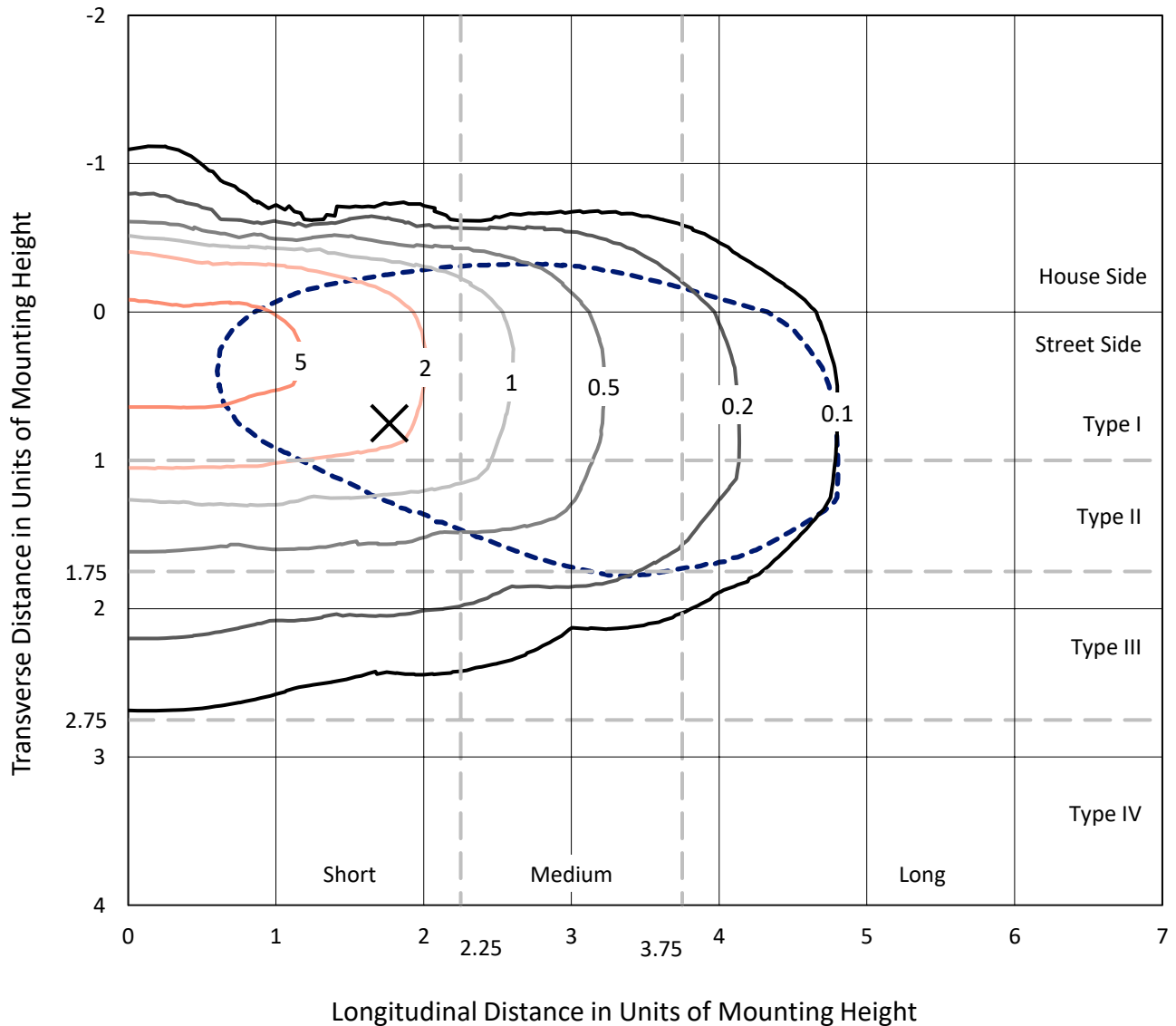
Input Watts (W): 162.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

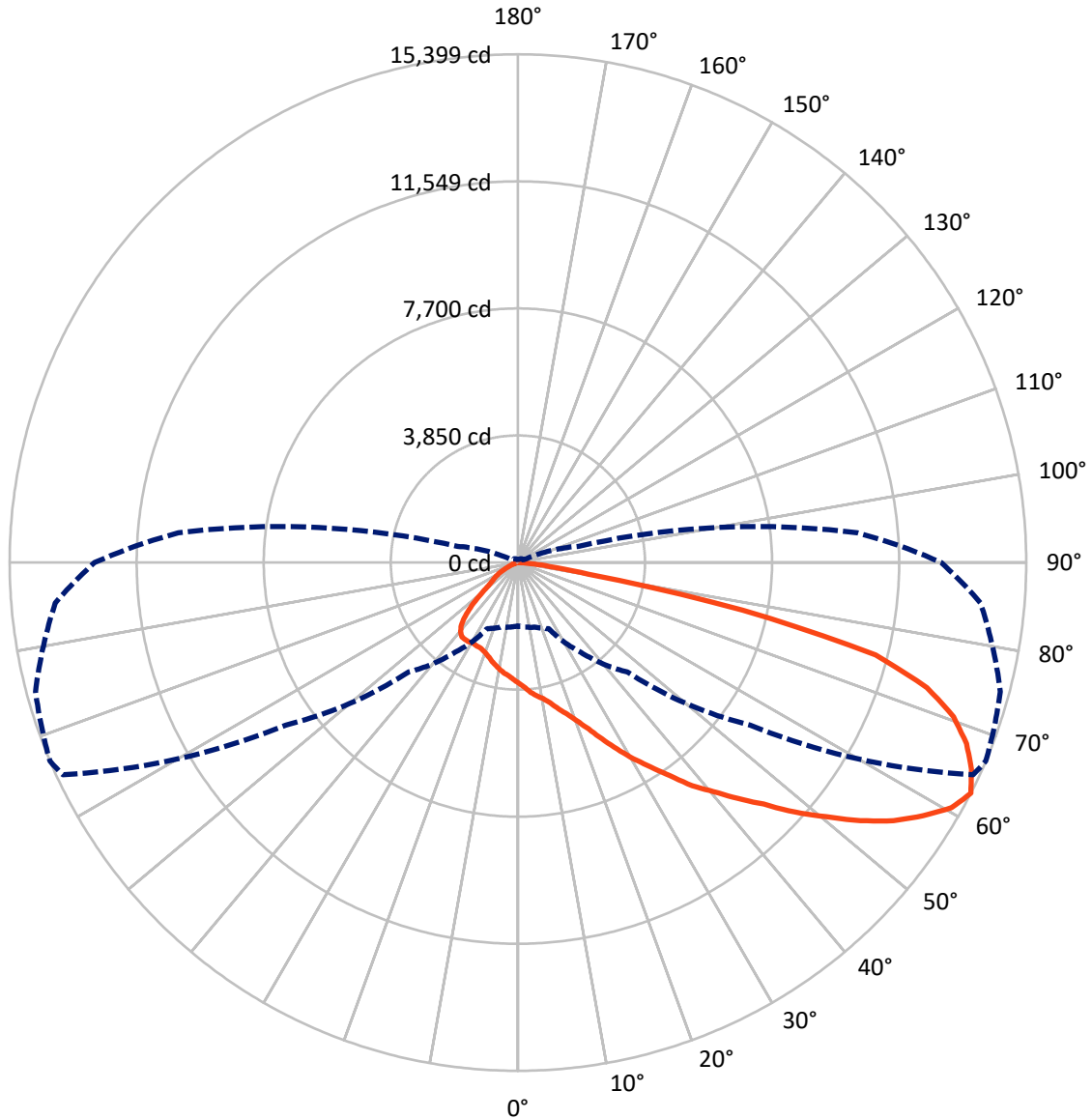
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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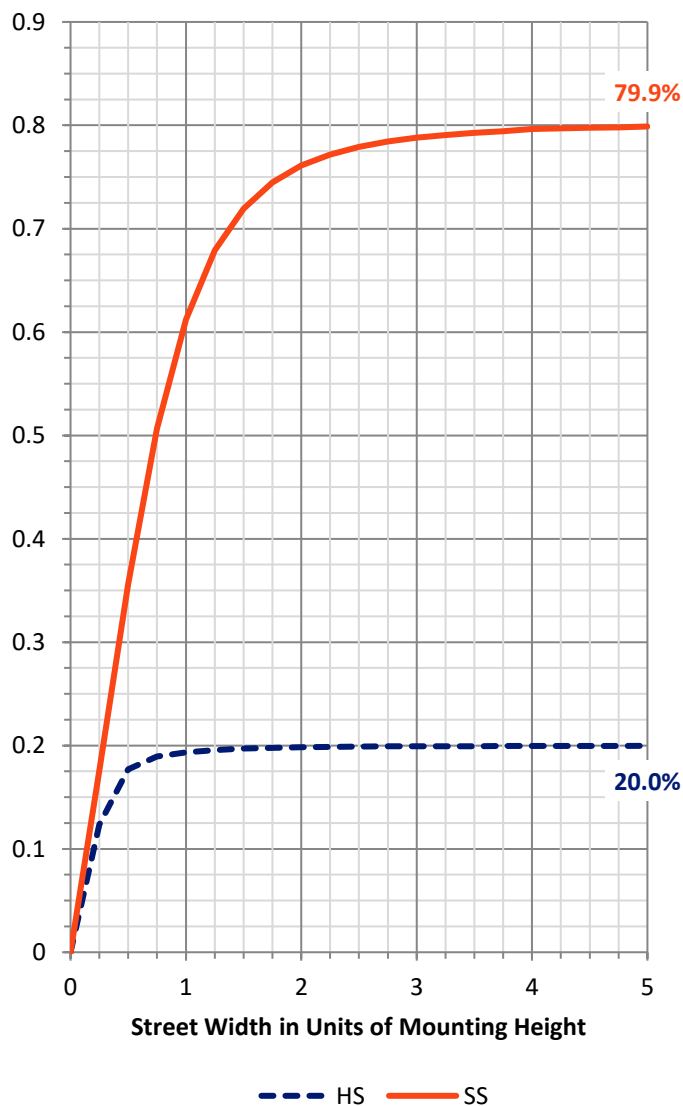
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4207.3	0.0	4207.3
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	16612.7	0.0	16612.7
	% Fixture	79.8	0.0	79.8
Total	Lumens	20820.0	0.0	20820.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.5	1.7
10°-20°	1066.1	5.1
20°-30°	1818.4	8.7
30°-40°	2664.1	12.8
40°-50°	3515.8	16.9
50°-60°	4137.5	19.9
60°-70°	4255.4	20.4
70°-80°	2757.0	13.2
80°-90°	252.4	1.2
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°	20820.0	100.0
0°-180°	20820.0	100.0

Coefficient of Utilization



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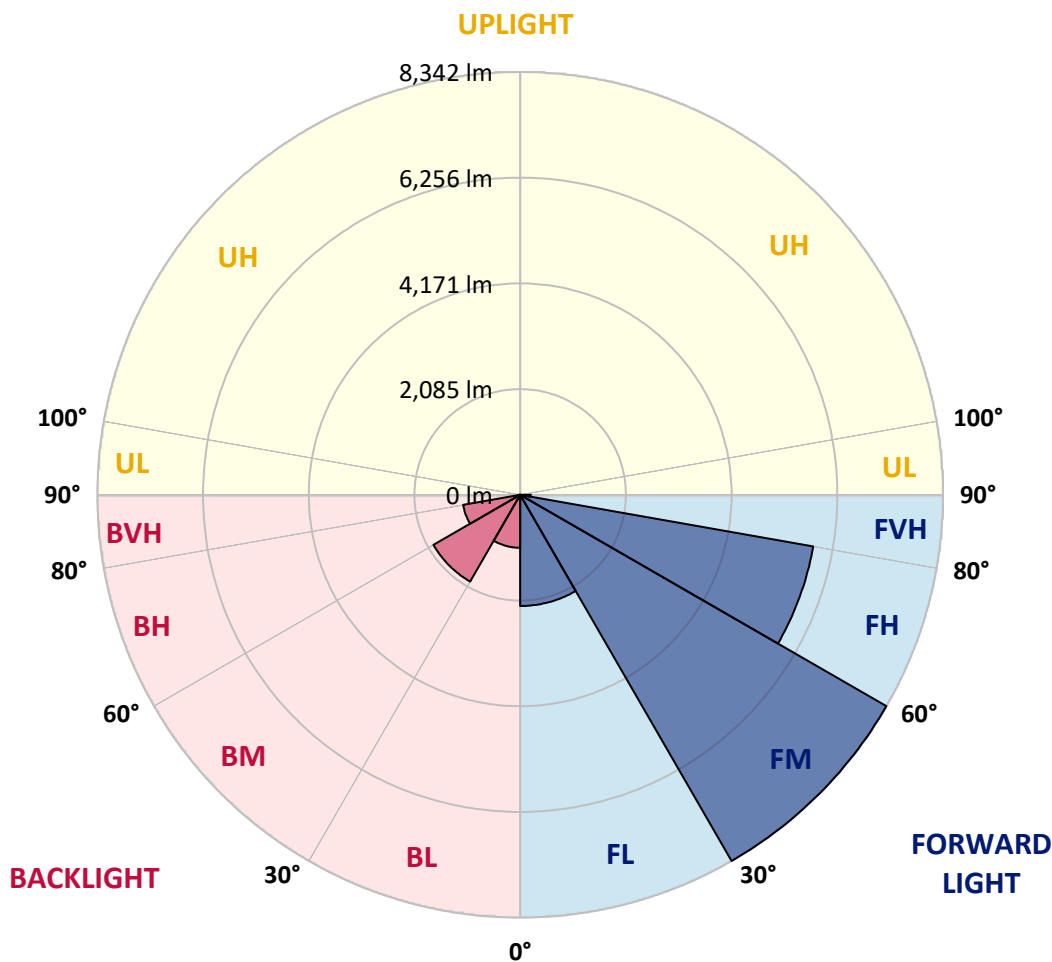
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2192.3	10.5			
FM (30°-60°)	8341.6	40.1			
FH (60°-80°)	5870.1	28.2			G3/7500
FVH (80°-90°)	208.7	1.0			G2/225
BL (0°-30°)	1045.6	5.0	B3/2500		
BM (30°-60°)	1975.7	9.5	B2/2500		
BH (60°-80°)	1142.3	5.5	B3/2500		G3/2500
BVH (80°-90°)	43.6	0.2			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3658.2	3658.2	3658.2	3658.2	3658.2	3658.2	3658.2	3658.2	3658.2	3658.2	3658.2
2.5°	4057.2	4052.7	4009.2	3968.7	3941.7	3940.2	3869.7	3806.7	3778.2	3745.2	3671.7
5°	4267.2	4303.2	4255.2	4195.2	4147.2	4111.2	4049.7	3977.7	3947.7	3869.7	3758.7
7.5°	4571.7	4571.7	4526.7	4475.7	4420.2	4324.2	4219.2	4093.2	4078.2	3991.2	3845.7
10°	4718.6	4754.6	4696.1	4636.1	4574.7	4525.2	4382.7	4228.2	4190.7	4060.2	3880.2
12.5°	4924.1	4924.1	4892.6	4841.6	4771.1	4672.1	4580.7	4424.7	4361.7	4166.7	3941.7
15°	5117.6	5101.1	5074.1	4990.1	4954.1	4892.6	4772.6	4609.2	4597.2	4381.2	4036.2
17.5°	5269.1	5242.1	5216.6	5171.6	5128.1	5104.1	5018.6	4876.1	4826.6	4628.6	4214.7
20°	5347.1	5369.6	5308.1	5306.6	5320.1	5302.1	5245.1	5138.6	5117.6	4882.1	4396.2
22.5°	5435.6	5465.6	5450.6	5465.6	5506.1	5536.1	5533.1	5510.6	5477.6	5221.1	4688.6
25°	5455.1	5435.6	5498.6	5638.1	5740.1	5812.1	5953.0	5924.6	5915.6	5689.1	5086.1
27.5°	5395.1	5413.1	5512.1	5713.1	5975.5	6172.0	6287.5	6430.0	6398.5	6223.0	5564.6
30°	5359.1	5390.6	5521.1	5756.6	6109.0	6464.5	6692.5	6869.5	6896.5	6757.0	6035.5
32.5°	5234.6	5276.6	5411.6	5791.1	6239.5	6778.0	7061.5	7391.4	7379.4	7322.4	6608.5
35°	5042.6	5098.1	5305.1	5746.1	6386.5	7060.0	7436.4	7916.4	7925.4	7949.4	7153.0
37.5°	4888.1	4906.1	5141.6	5612.6	6445.0	7287.9	7785.9	8435.4	8580.9	8546.4	7770.9
40°	4640.6	4694.6	4949.6	5449.1	6439.0	7442.4	8141.4	9042.8	9120.8	9228.8	8417.4
42.5°	4336.2	4394.7	4639.1	5227.1	6355.0	7577.4	8483.4	9662.3	9771.8	9941.2	9009.8
45°	4043.7	4069.2	4298.7	4903.1	6191.5	7683.9	8816.3	10272.7	10440.7	10683.7	9606.8
47.5°	3679.2	3748.2	4004.7	4564.2	5830.1	7722.9	9062.3	10992.7	11301.6	11450.1	10287.7
50°	2830.3	2873.8	3593.7	4265.7	5437.1	7601.4	9381.8	11906.1	12101.1	12255.6	10977.7
52.5°	2494.3	2533.3	2812.3	3920.7	4999.1	7286.4	9576.8	12755.0	12990.5	12957.5	11670.6
55°	2353.3	2372.8	2492.8	3199.3	4600.2	6701.5	9713.3	13682.0	13809.5	13596.5	12357.6
57.5°	2189.8	2212.3	2302.3	2681.8	4150.2	5960.5	9599.3	14424.4	14472.4	14208.4	12969.5
60°	2044.3	2059.3	2194.3	2399.8	3661.2	5242.1	9311.3	14958.4	15091.9	14658.4	13629.5
62.5°	1919.9	1955.9	2026.3	2207.8	3319.2	4685.6	8582.4	15210.3	15399.3	15129.4	14067.4
65°	1796.9	1813.4	1894.4	2054.8	2951.8	4357.2	8165.4	14878.9	15099.4	15192.4	14337.4
67.5°	1628.9	1652.9	1732.4	1847.9	2462.8	4037.7	7192.0	14340.4	14655.4	14860.9	14176.9
70°	1432.4	1453.4	1534.4	1630.4	2056.3	3566.7	6070.0	13791.5	13998.4	14011.9	13460.0
72.5°	1204.4	1223.9	1304.9	1400.9	1706.9	2969.8	4757.6	12491.1	12954.5	13248.5	12257.1
75°	766.4	850.4	1051.4	1159.4	1405.4	2402.8	3394.2	9972.7	11190.7	12030.6	10607.2
77.5°	124.5	139.5	412.5	588.0	817.4	1628.9	1885.4	5525.6	6950.5	10053.7	8564.4
80°	94.5	106.5	150.0	399.0	525.0	1013.9	742.4	1793.9	2162.8	4700.6	4798.1
82.5°	40.5	48.0	90.0	223.5	247.5	270.0	199.5	802.4	949.4	1429.4	1664.9
85°	13.5	18.0	42.0	70.5	78.0	60.0	43.5	318.0	391.5	685.4	634.5
87.5°	0.0	1.5	9.0	10.5	9.0	6.0	4.5	3.0	3.0	4.5	4.5
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°	3658.2	3658.2	3658.2	3658.2	3658.2	3658.2	3658.2	3658.2	3658.2	3658.2	3658.2
2.5°	3656.7	3605.7	3599.7	3538.2	3482.7	3419.7	3380.7	3367.2	3385.2	3403.2	3421.2
5°	3701.7	3623.7	3545.7	3418.2	3361.2	3292.3	3200.8	3145.3	3119.8	3142.3	3149.8
7.5°	3734.7	3634.2	3514.2	3340.2	3217.3	3085.3	2998.3	2905.3	2854.3	2863.3	2870.8
10°	3740.7	3629.7	3425.7	3257.8	3059.8	2878.3	2764.3	2720.8	2686.3	2656.3	2660.8
12.5°	3796.2	3632.7	3350.7	3146.8	2938.3	2704.3	2576.8	2521.3	2515.3	2453.8	2447.8
15°	3871.2	3698.7	3311.7	3046.3	2779.3	2558.8	2407.3	2308.3	2311.3	2279.8	2275.3
17.5°	3992.7	3763.2	3283.3	2929.3	2612.8	2410.3	2218.3	2128.3	2099.8	2090.8	2083.3
20°	4129.2	3857.7	3248.8	2825.8	2467.3	2231.8	2017.3	1925.9	1846.4	1822.4	1825.4
22.5°	4330.2	3982.2	3277.3	2747.8	2305.3	2057.8	1844.9	1666.4	1529.9	1493.9	1489.4
25°	4685.6	4228.2	3362.7	2680.3	2204.8	1888.4	1601.9	1351.4	1171.4	1132.4	1135.4
27.5°	5081.6	4552.2	3481.2	2651.8	2077.3	1700.9	1306.4	1027.4	859.4	814.4	817.4
30°	5551.1	4937.6	3661.2	2572.3	1940.9	1427.9	973.4	752.9	622.5	570.0	573.0
32.5°	6002.5	5323.1	3892.2	2560.3	1769.9	1072.4	703.4	547.5	441.0	402.0	406.5
35°	6500.5	5764.1	4135.2	2500.3	1489.4	769.4	493.5	379.5	322.5	310.5	309.0
37.5°	7064.5	6157.0	4315.2	2444.8	1114.4	541.5	337.5	292.5	285.0	268.5	268.5
40°	7587.9	6566.5	4450.2	2297.8	779.9	367.5	264.0	265.5	258.0	235.5	231.0
42.5°	8070.9	6989.5	4574.7	2062.3	528.0	250.5	237.0	241.5	244.5	219.0	213.0
45°	8618.3	7511.4	4547.7	1708.4	336.0	226.5	213.0	226.5	241.5	216.0	210.0
47.5°	9218.3	7893.9	4604.7	1232.9	237.0	214.5	198.0	216.0	228.0	211.5	202.5
50°	9896.3	8394.9	4432.2	716.9	217.5	202.5	190.5	198.0	216.0	207.0	196.5
52.5°	10517.2	8841.8	4196.7	351.0	205.5	190.5	178.5	184.5	202.5	192.0	195.0
55°	11040.7	9306.8	3718.2	250.5	198.0	177.0	172.5	174.0	184.5	171.0	180.0
57.5°	11682.6	9689.3	3232.3	234.0	192.0	168.0	169.5	157.5	160.5	153.0	144.0
60°	12254.1	10050.7	2572.3	216.0	183.0	172.5	153.0	136.5	127.5	123.0	121.5
62.5°	12825.5	10325.2	1895.9	196.5	174.0	156.0	135.0	117.0	102.0	96.0	94.5
65°	13041.5	10472.2	1294.4	180.0	163.5	142.5	120.0	94.5	78.0	72.0	67.5
67.5°	12881.0	10011.7	749.9	162.0	157.5	130.5	105.0	76.5	60.0	55.5	52.5
70°	12137.1	9288.8	400.5	147.0	138.0	115.5	93.0	63.0	48.0	42.0	40.5
72.5°	10857.7	7988.4	210.0	123.0	115.5	94.5	73.5	52.5	39.0	31.5	30.0
75°	9219.8	6271.0	147.0	90.0	79.5	73.5	55.5	42.0	31.5	24.0	22.5
77.5°	7277.4	4075.2	111.0	58.5	46.5	48.0	40.5	34.5	25.5	18.0	18.0
80°	3758.7	2117.8	84.0	39.0	27.0	28.5	28.5	25.5	19.5	13.5	13.5
82.5°	1490.9	779.9	58.5	22.5	16.5	18.0	16.5	16.5	13.5	9.0	9.0
85°	492.0	171.0	21.0	13.5	10.5	10.5	9.0	7.5	4.5	3.0	3.0
87.5°	4.5	4.5	6.0	7.5	7.5	6.0	4.5	1.5	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)