

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: P553528

Luminaire Tested: **VERD-G-CA2-140-750-U-T2-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553528
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-CA2-140-750-U-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1290mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19183 lumens
Efficiency: N/A
Efficacy: 134.7 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

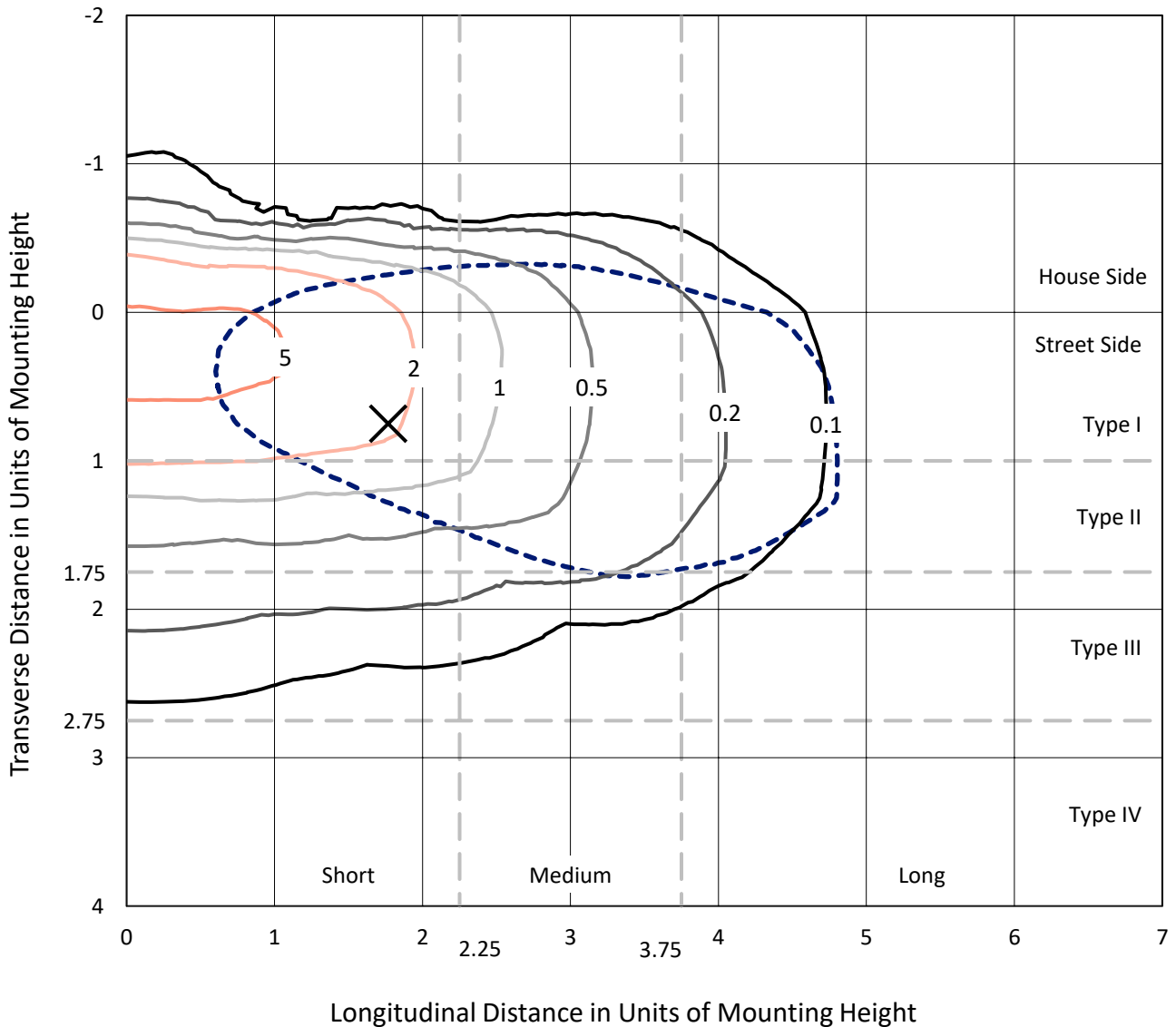
Input Watts (W): 142.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

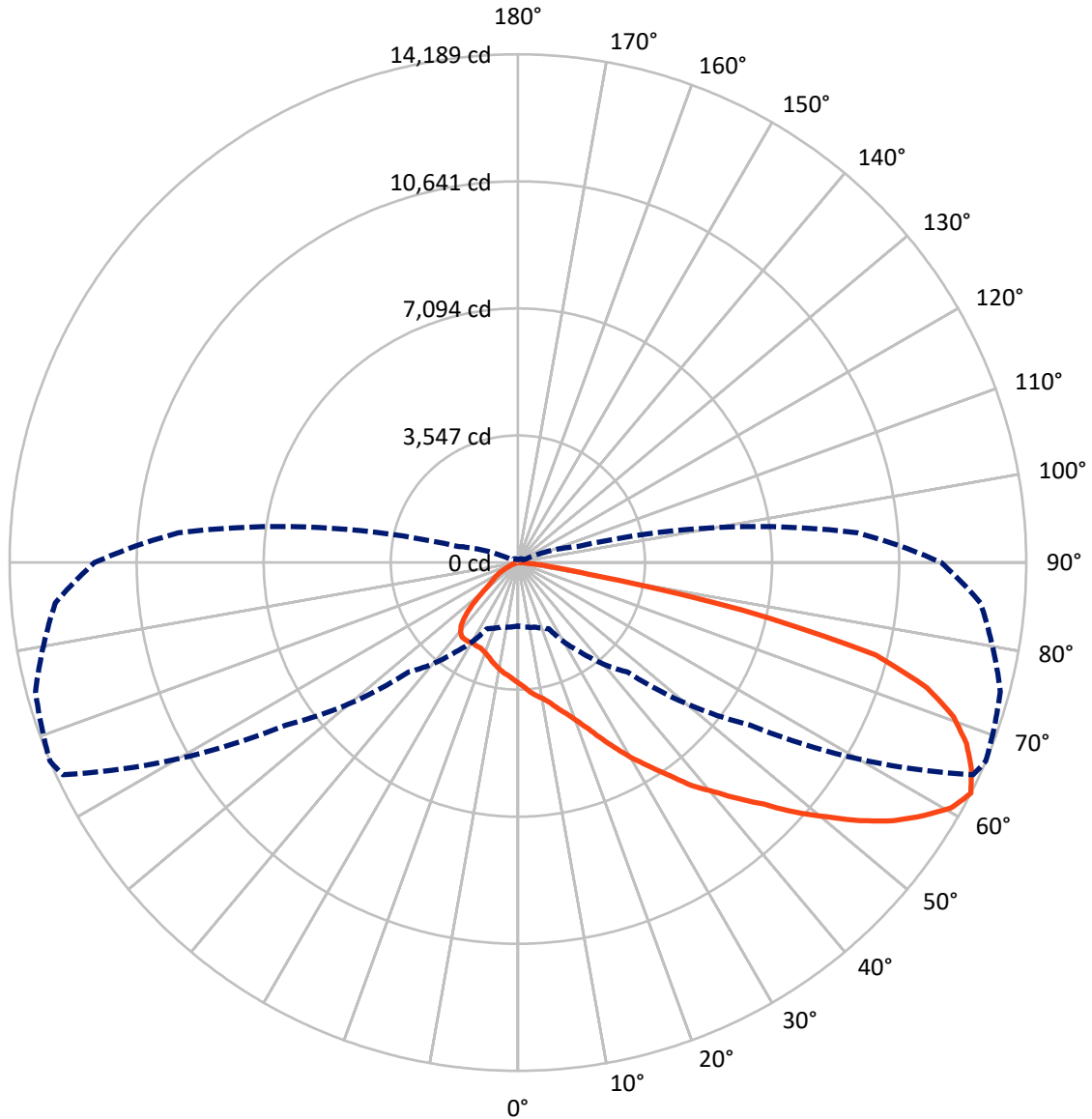
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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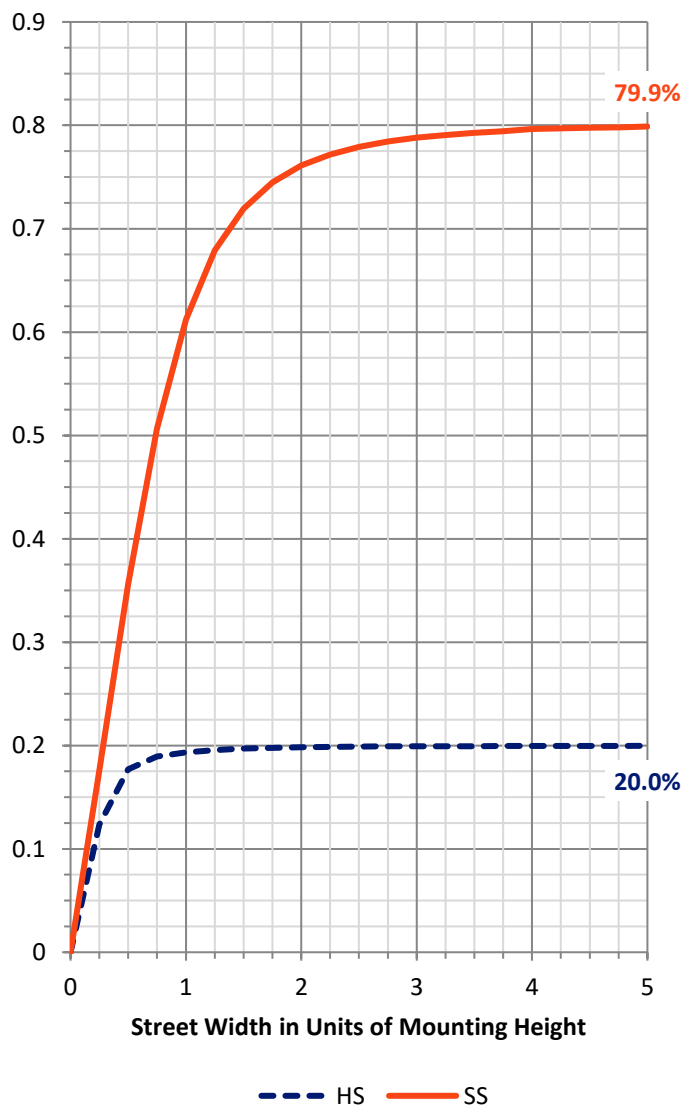
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3876.5	0.0	3876.5
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	15306.5	0.0	15306.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	19183.0	0.0	19183.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.7	1.7
10°-20°	982.3	5.1
20°-30°	1675.5	8.7
30°-40°	2454.6	12.8
40°-50°	3239.3	16.9
50°-60°	3812.1	19.9
60°-70°	3920.8	20.4
70°-80°	2540.2	13.2
80°-90°	232.5	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°	19183.0	100.0
0°-180°	19183.0	100.0

Coefficient of Utilization



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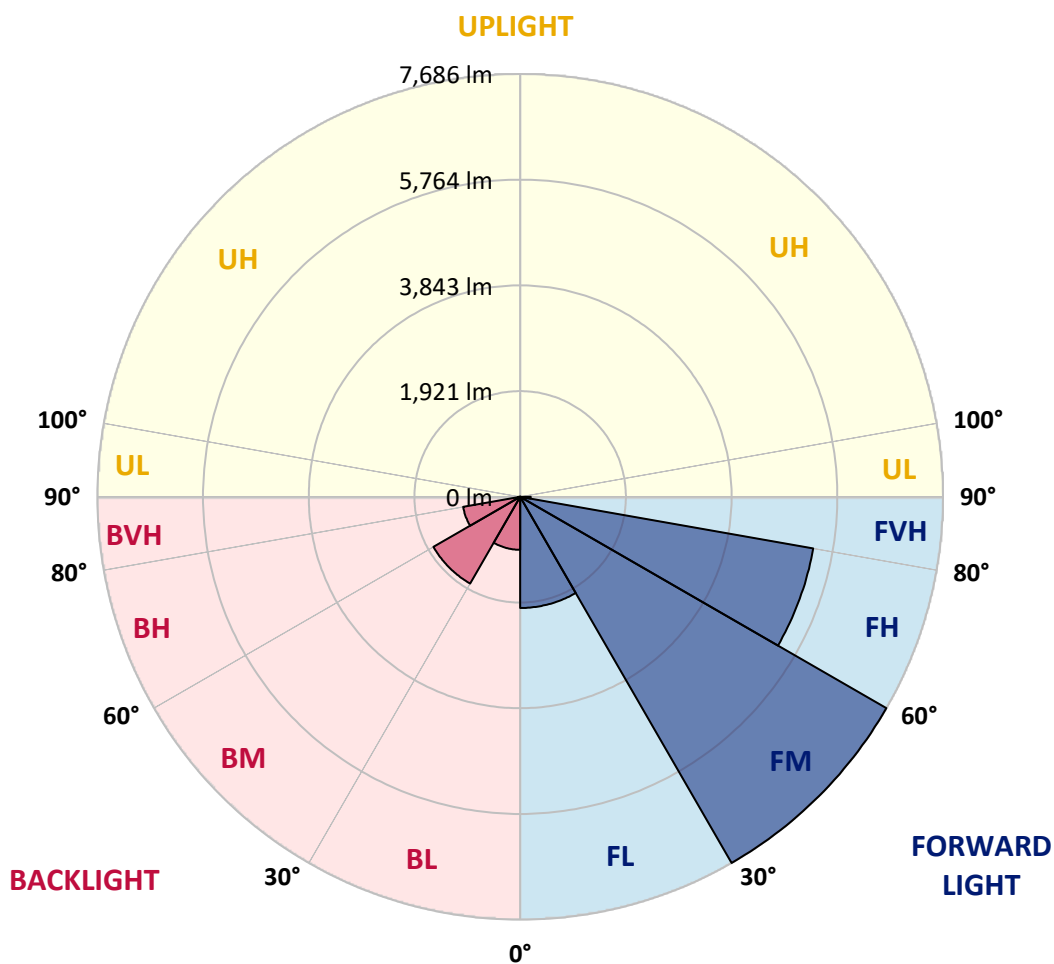
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2020.0	10.5			
FM (30°-60°)	7685.7	40.1			
FH (60°-80°)	5408.6	28.2			G3/7500
FVH (80°-90°)	192.3	1.0			G2/225
BL (0°-30°)	963.4	5.0	B2/1000		
BM (30°-60°)	1820.4	9.5	B2/2500		
BH (60°-80°)	1052.5	5.5	B3/2500		G3/2500
BVH (80°-90°)	40.2	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°	3370.6	3370.6	3370.6	3370.6	3370.6	3370.6	3370.6	3370.6	3370.6	3370.6	3370.6
2.5°	3738.2	3734.0	3694.0	3656.7	3631.8	3630.4	3565.4	3507.4	3481.1	3450.7	3383.0
5°	3931.7	3964.8	3920.6	3865.3	3821.1	3787.9	3731.3	3664.9	3637.3	3565.4	3463.2
7.5°	4212.2	4212.2	4170.7	4123.8	4072.6	3984.2	3887.4	3771.4	3757.5	3677.4	3543.3
10°	4347.6	4380.8	4326.9	4271.6	4215.0	4169.4	4038.1	3895.7	3861.2	3741.0	3575.1
12.5°	4537.0	4537.0	4507.9	4461.0	4396.0	4304.8	4220.5	4076.8	4018.7	3839.1	3631.8
15°	4715.2	4700.0	4675.2	4597.8	4564.6	4507.9	4397.4	4246.8	4235.7	4036.7	3718.8
17.5°	4854.8	4829.9	4806.4	4765.0	4724.9	4702.8	4624.0	4492.7	4447.1	4264.7	3883.3
20°	4926.7	4947.4	4890.7	4889.4	4901.8	4885.2	4832.7	4734.6	4715.2	4498.3	4050.5
22.5°	5008.2	5035.8	5022.0	5035.8	5073.2	5100.8	5098.0	5077.3	5046.9	4810.6	4320.0
25°	5026.2	5008.2	5066.3	5194.8	5288.7	5355.1	5485.0	5458.7	5450.4	5241.8	4686.2
27.5°	4970.9	4987.5	5078.7	5263.9	5505.7	5686.7	5793.2	5924.4	5895.4	5733.7	5127.1
30°	4937.7	4966.7	5087.0	5303.9	5628.7	5956.2	6166.3	6329.4	6354.2	6225.7	5561.0
32.5°	4823.0	4861.7	4986.1	5335.7	5748.9	6245.1	6506.2	6810.3	6799.2	6746.7	6088.9
35°	4646.1	4697.3	4888.0	5294.3	5884.4	6504.9	6851.7	7294.0	7302.3	7324.4	6590.5
37.5°	4503.8	4520.4	4737.3	5171.3	5938.3	6714.9	7173.7	7772.1	7906.2	7874.4	7159.9
40°	4275.8	4325.5	4560.5	5020.6	5932.7	6857.3	7501.3	8331.8	8403.7	8503.2	7755.5
42.5°	3995.2	4049.1	4274.4	4816.1	5855.3	6981.6	7816.3	8902.6	9003.4	9159.6	8301.4
45°	3725.8	3749.2	3960.7	4517.6	5704.7	7079.8	8123.1	9465.0	9619.8	9843.7	8851.4
47.5°	3389.9	3453.5	3689.8	4205.3	5371.7	7115.7	8349.8	10128.4	10413.0	10549.9	9478.8
50°	2607.8	2647.8	3311.2	3930.3	5009.6	7003.8	8644.1	10970.0	11149.6	11292.0	10114.5
52.5°	2298.2	2334.1	2591.2	3612.4	4606.1	6713.5	8823.8	11752.2	11969.1	11938.7	10753.0
55°	2168.3	2186.3	2296.8	2947.7	4238.5	6174.6	8949.5	12606.2	12723.7	12527.4	11385.9
57.5°	2017.7	2038.4	2121.3	2470.9	3823.9	5491.9	8844.5	13290.3	13334.5	13091.3	11949.8
60°	1883.6	1897.4	2021.8	2211.1	3373.4	4829.9	8579.2	13782.2	13905.2	13505.9	12557.8
62.5°	1768.9	1802.1	1867.0	2034.2	3058.3	4317.2	7907.6	14014.4	14188.5	13939.8	12961.4
65°	1655.6	1670.8	1745.4	1893.3	2719.7	4014.6	7523.4	13709.0	13912.2	13997.8	13210.1
67.5°	1500.8	1522.9	1596.2	1702.6	2269.2	3720.2	6626.5	13212.9	13503.1	13692.4	13062.2
70°	1319.8	1339.1	1413.7	1502.2	1894.7	3286.3	5592.8	12707.1	12897.8	12910.2	12401.7
72.5°	1109.7	1127.7	1202.3	1290.7	1572.7	2736.3	4383.6	11508.9	11936.0	12206.8	11293.3
75°	706.2	783.6	968.8	1068.3	1294.9	2213.9	3127.4	9188.6	10310.8	11084.7	9773.2
77.5°	114.7	128.5	380.0	541.7	753.2	1500.8	1737.1	5091.1	6404.0	9263.3	7891.0
80°	87.1	98.1	138.2	367.6	483.7	934.2	684.1	1652.8	1992.8	4331.1	4420.9
82.5°	37.3	44.2	82.9	205.9	228.0	248.8	183.8	739.3	874.8	1317.0	1534.0
85°	12.4	16.6	38.7	65.0	71.9	55.3	40.1	293.0	360.7	631.6	584.6
87.5°	0.0	1.4	8.3	9.7	8.3	5.5	4.1	2.8	2.8	4.1	4.1
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°	3370.6	3370.6	3370.6	3370.6	3370.6	3370.6	3370.6	3370.6	3370.6	3370.6	3370.6
2.5°	3369.2	3322.2	3316.7	3260.0	3208.9	3150.9	3114.9	3102.5	3119.1	3135.7	3152.2
5°	3410.7	3338.8	3266.9	3149.5	3097.0	3033.4	2949.1	2898.0	2874.5	2895.2	2902.1
7.5°	3441.1	3348.5	3237.9	3077.6	2964.3	2842.7	2762.5	2676.8	2629.9	2638.2	2645.1
10°	3446.6	3344.3	3156.4	3001.6	2819.2	2652.0	2546.9	2506.9	2475.1	2447.4	2451.6
12.5°	3497.7	3347.1	3087.3	2899.3	2707.3	2491.7	2374.2	2323.1	2317.5	2260.9	2255.4
15°	3566.8	3407.9	3051.4	2806.8	2560.8	2357.6	2218.0	2126.8	2129.6	2100.6	2096.4
17.5°	3678.8	3467.3	3025.1	2699.0	2407.4	2220.8	2043.9	1961.0	1934.7	1926.4	1919.5
20°	3804.5	3554.4	2993.3	2603.6	2273.3	2056.4	1858.7	1774.4	1701.2	1679.1	1681.8
22.5°	3989.7	3669.1	3019.6	2531.7	2124.1	1896.0	1699.8	1535.4	1409.6	1376.4	1372.3
25°	4317.2	3895.7	3098.3	2469.6	2031.5	1739.9	1475.9	1245.1	1079.3	1043.4	1046.1
27.5°	4682.1	4194.2	3207.5	2443.3	1914.0	1567.1	1203.7	946.6	791.9	750.4	753.2
30°	5114.6	4549.4	3373.4	2370.1	1788.3	1315.6	896.9	693.7	573.5	525.1	527.9
32.5°	5530.6	4904.6	3586.2	2359.0	1630.7	988.1	648.1	504.4	406.3	370.4	374.5
35°	5989.4	5310.9	3810.1	2303.7	1372.3	708.9	454.7	349.6	297.1	286.1	284.7
37.5°	6509.0	5672.9	3975.9	2252.6	1026.8	498.9	310.9	269.5	262.6	247.4	247.4
40°	6991.3	6050.2	4100.3	2117.2	718.6	338.6	243.2	244.6	237.7	217.0	212.8
42.5°	7436.3	6439.9	4215.0	1900.2	486.4	230.8	218.3	222.5	225.3	201.8	196.2
45°	7940.7	6920.8	4190.1	1574.0	309.6	208.7	196.2	208.7	222.5	199.0	193.5
47.5°	8493.5	7273.2	4242.6	1136.0	218.3	197.6	182.4	199.0	210.1	194.9	186.6
50°	9118.1	7734.8	4083.7	660.6	200.4	186.6	175.5	182.4	199.0	190.7	181.0
52.5°	9690.3	8146.6	3866.7	323.4	189.3	175.5	164.5	170.0	186.6	176.9	179.7
55°	10172.6	8575.0	3425.9	230.8	182.4	163.1	158.9	160.3	170.0	157.5	165.8
57.5°	10764.1	8927.4	2978.1	215.6	176.9	154.8	156.2	145.1	147.9	141.0	132.7
60°	11290.6	9260.5	2370.1	199.0	168.6	158.9	141.0	125.8	117.5	113.3	111.9
62.5°	11817.1	9513.4	1746.8	181.0	160.3	143.7	124.4	107.8	94.0	88.4	87.1
65°	12016.1	9648.8	1192.6	165.8	150.6	131.3	110.6	87.1	71.9	66.3	62.2
67.5°	11868.2	9224.6	691.0	149.3	145.1	120.2	96.7	70.5	55.3	51.1	48.4
70°	11182.8	8558.5	369.0	135.4	127.1	106.4	85.7	58.0	44.2	38.7	37.3
72.5°	10004.0	7360.3	193.5	113.3	106.4	87.1	67.7	48.4	35.9	29.0	27.6
75°	8494.9	5778.0	135.4	82.9	73.2	67.7	51.1	38.7	29.0	22.1	20.7
77.5°	6705.3	3754.8	102.3	53.9	42.8	44.2	37.3	31.8	23.5	16.6	16.6
80°	3463.2	1951.3	77.4	35.9	24.9	26.3	26.3	23.5	18.0	12.4	12.4
82.5°	1373.7	718.6	53.9	20.7	15.2	16.6	15.2	15.2	12.4	8.3	8.3
85°	453.3	157.5	19.3	12.4	9.7	9.7	8.3	6.9	4.1	2.8	2.8
87.5°	4.1	4.1	5.5	6.9	6.9	5.5	4.1	1.4	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)