

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: P509836

Luminaire Tested: **VERD-M-CA3-150-730-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509836
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-CA3-150-730-U-T2-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 940mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19881 lumens
Efficiency: N/A
Efficacy: 129.9 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

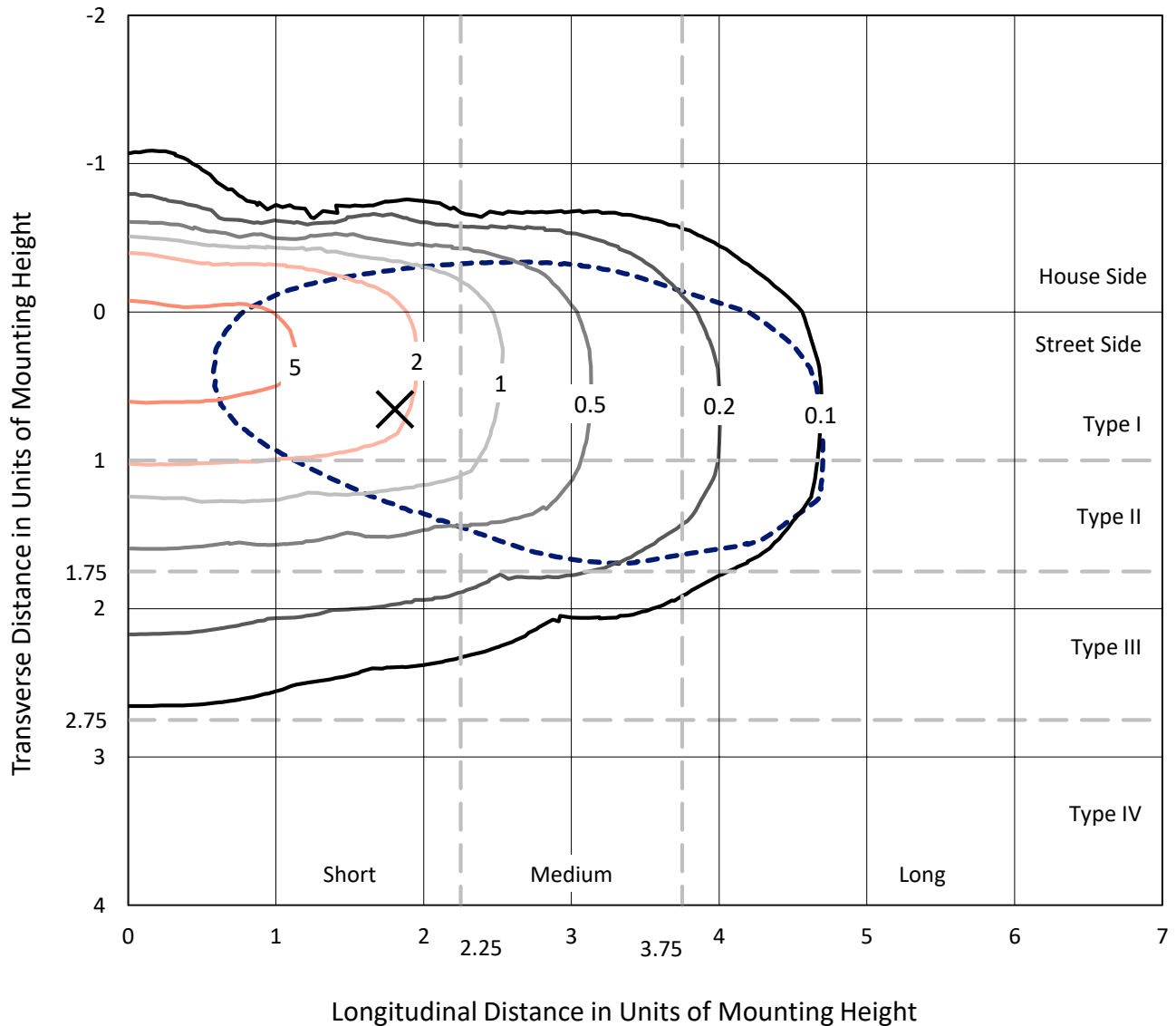
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

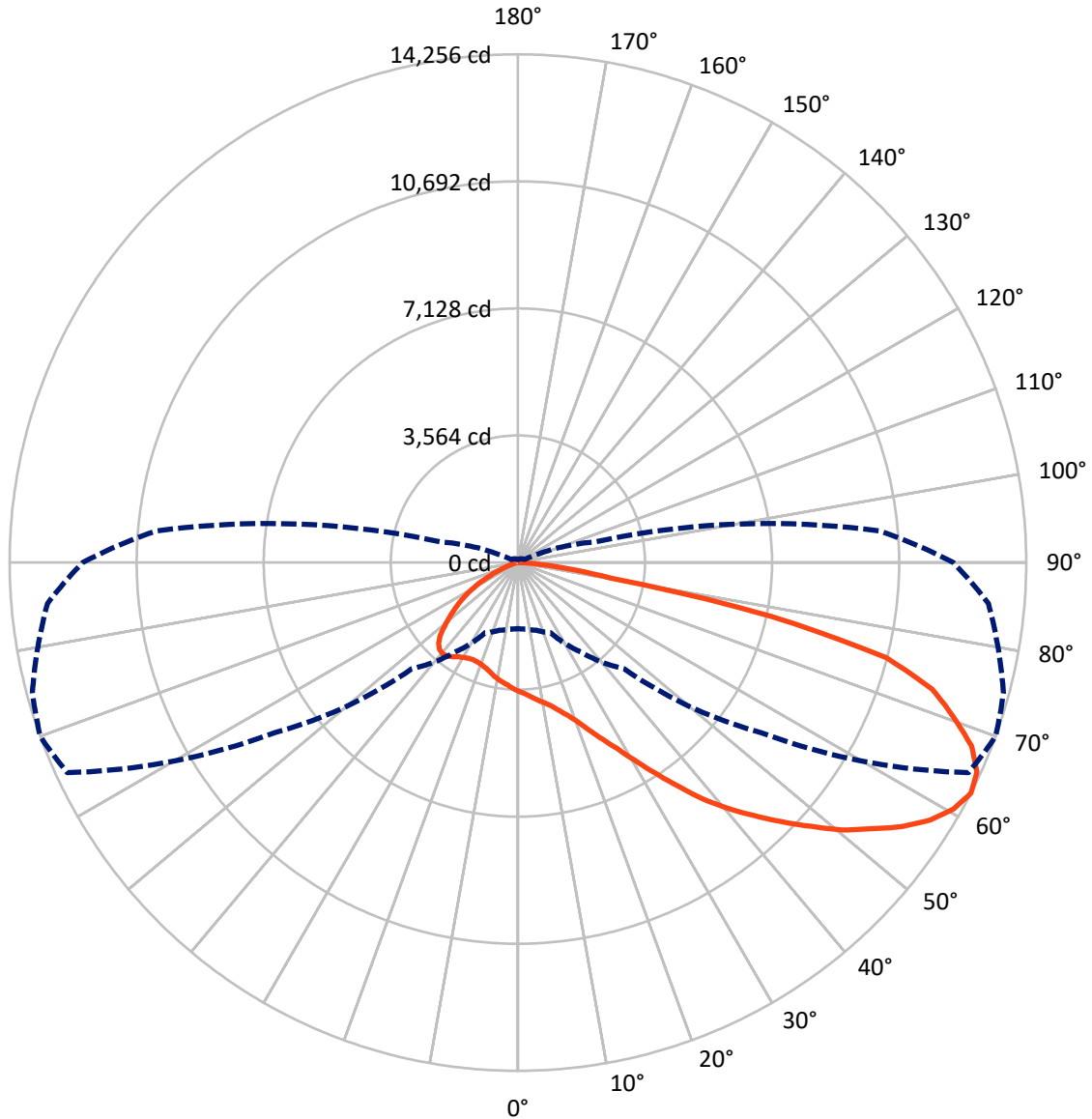
✕ Max cd
 - - - 1/2 Max cd



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

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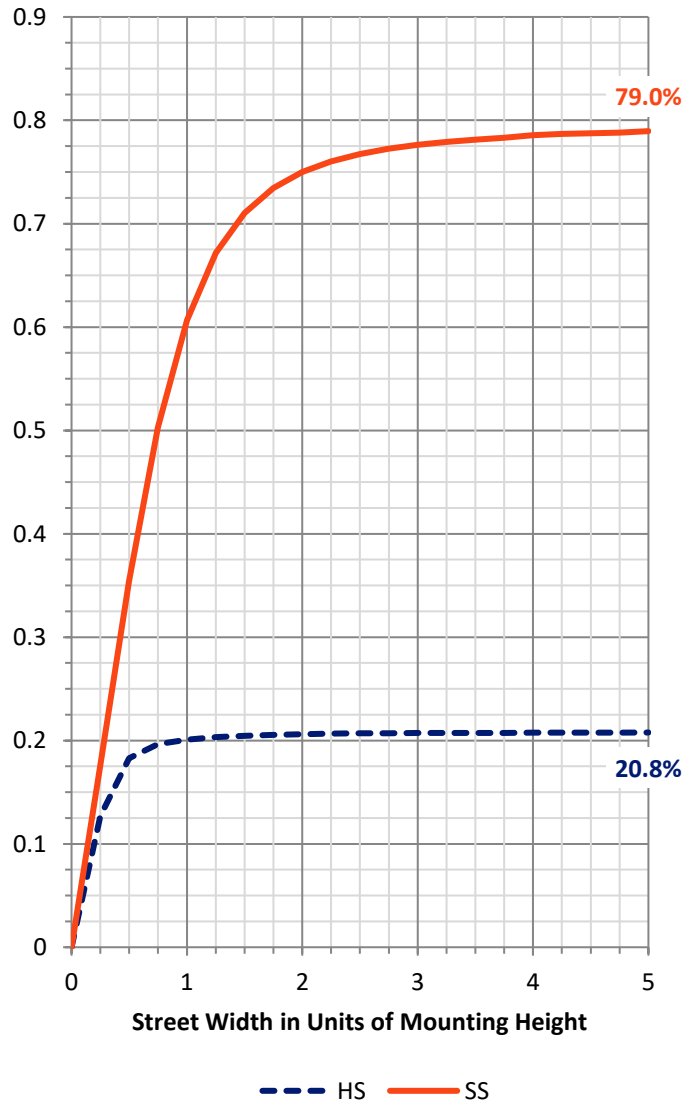
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4180.8	0.0	4180.8
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	15700.2	0.0	15700.2
	% Fixture	79.0	0.0	79.0
Total	Lumens	19881.0	0.0	19881.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.2	1.7
10°-20°	1024.1	5.2
20°-30°	1736.1	8.7
30°-40°	2553.0	12.8
40°-50°	3399.8	17.1
50°-60°	3977.1	20.0
60°-70°	4000.0	20.1
70°-80°	2532.1	12.7
80°-90°	315.5	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°	19881.0	100.0
0°-180°	19881.0	100.0



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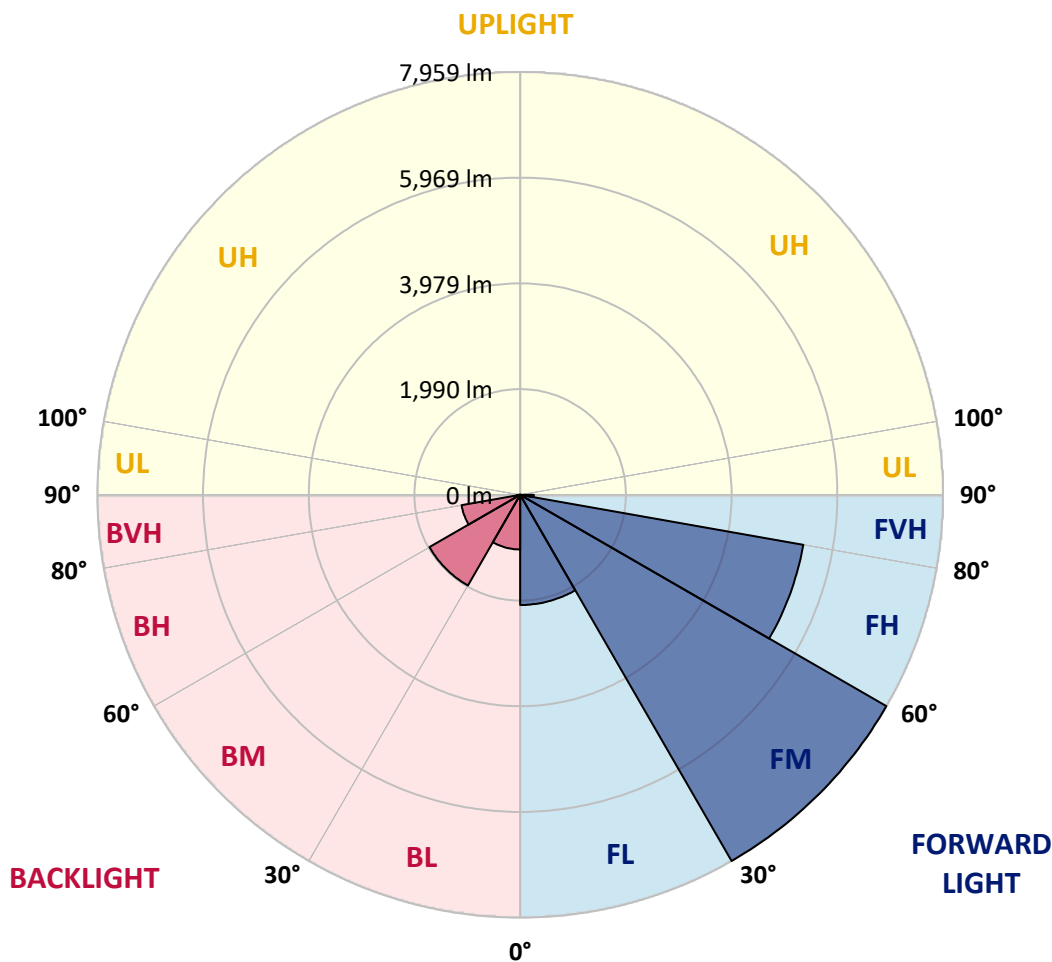
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2074.0	10.4			
FM (30°-60°)	7958.7	40.0			
FH (60°-80°)	5411.6	27.2			G3/7500
FVH (80°-90°)	255.9	1.3			G3/500
BL (0°-30°)	1029.3	5.2	B3/2500		
BM (30°-60°)	1971.3	9.9	B2/2500		
BH (60°-80°)	1120.5	5.6	B3/2500		G3/2500
BVH (80°-90°)	59.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3
2.5°	3812.7	3846.0	3820.5	3810.7	3818.6	3779.3	3747.9	3702.7	3681.1	3665.4	3639.8
5°	4006.1	4061.1	4027.7	4007.1	4004.1	3932.5	3890.2	3828.4	3780.3	3738.0	3673.2
7.5°	4210.3	4242.7	4230.0	4206.4	4190.7	4103.3	4028.7	3941.3	3888.3	3832.3	3723.3
10°	4389.0	4428.3	4415.5	4373.3	4358.6	4269.2	4183.8	4065.0	3992.3	3922.6	3772.4
12.5°	4573.6	4617.8	4591.3	4549.1	4536.3	4446.0	4357.6	4213.3	4122.9	4044.4	3836.2
15°	4743.5	4783.7	4765.1	4717.0	4704.2	4627.6	4530.4	4395.9	4297.7	4193.6	3926.6
17.5°	4879.0	4919.2	4895.7	4873.1	4869.2	4793.6	4735.6	4598.2	4504.9	4363.5	4065.0
20°	4978.2	5019.4	5007.6	5018.4	5059.7	5003.7	4968.3	4852.5	4757.2	4604.1	4264.3
22.5°	5056.7	5109.7	5156.9	5178.5	5255.1	5251.1	5243.3	5174.5	5099.9	4940.8	4501.9
25°	5064.6	5125.4	5218.7	5319.9	5459.3	5526.1	5575.1	5564.3	5477.0	5319.9	4830.9
27.5°	5076.3	5139.2	5235.4	5409.2	5658.6	5814.7	5896.2	5946.3	5895.2	5790.2	5205.0
30°	5050.8	5115.6	5236.4	5458.3	5795.1	6084.7	6230.1	6415.6	6421.5	6333.2	5769.6
32.5°	4935.0	5020.4	5166.7	5464.2	5927.6	6366.5	6590.4	6946.8	7024.4	6958.6	6351.8
35°	4741.5	4819.1	5028.2	5412.2	6008.2	6601.2	7010.7	7566.4	7681.3	7677.4	7037.2
37.5°	4527.5	4606.0	4841.7	5289.4	6060.2	6810.4	7380.8	8181.1	8409.8	8361.7	7684.2
40°	4290.8	4373.3	4645.3	5135.3	6034.7	6996.9	7772.6	8777.1	9060.8	9066.7	8302.8
42.5°	4015.9	4083.7	4356.6	4922.2	5950.2	7134.4	8136.9	9404.5	9703.0	9686.3	8886.1
45°	3752.8	3823.5	4062.1	4592.3	5754.8	7211.0	8494.3	10039.8	10366.7	10313.7	9534.1
47.5°	3434.6	3535.8	3807.8	4315.4	5453.4	7205.1	8806.5	10689.8	11057.0	11013.8	10093.8
50°	2643.2	2703.1	3318.8	4029.7	5044.9	7067.6	9111.9	11328.0	11792.4	11708.0	10690.8
52.5°	2381.1	2435.1	2633.4	3687.0	4673.8	6770.1	9366.2	12058.5	12406.1	12340.3	11300.5
55°	2250.5	2279.9	2400.7	3040.9	4311.5	6287.0	9536.1	12707.6	13068.9	12923.6	11871.0
57.5°	2086.5	2122.8	2263.2	2597.1	3865.7	5545.7	9496.8	13292.8	13626.6	13403.7	12373.7
60°	1960.8	1988.3	2119.9	2337.9	3405.2	4777.9	9095.2	13867.2	14035.1	13815.1	12874.5
62.5°	1854.8	1870.5	1962.8	2170.0	3054.6	4217.2	8311.7	13943.8	14256.0	14096.9	13247.6
65°	1723.2	1727.1	1836.1	1998.1	2730.6	3880.4	7639.1	13551.0	14146.0	14093.0	13382.1
67.5°	1569.1	1576.9	1686.9	1810.6	2340.8	3522.0	6591.4	13339.9	13718.9	13685.5	13116.0
70°	1375.6	1391.3	1492.5	1586.7	1982.4	3092.0	5246.2	12505.3	12955.0	12905.9	12239.2
72.5°	1189.1	1180.2	1274.5	1367.8	1651.5	2581.4	3976.6	11068.8	12151.8	12104.7	11100.2
75°	977.0	971.1	1068.3	1156.7	1354.0	2085.5	2797.4	8186.0	10677.0	10822.3	9571.4
77.5°	601.9	606.8	662.8	721.7	917.1	1558.3	1785.1	4554.0	7253.2	8601.3	7511.4
80°	436.0	436.0	477.2	512.5	606.8	949.5	888.6	1899.0	2651.1	4151.4	4684.6
82.5°	282.8	271.0	296.5	327.0	337.8	411.4	406.5	952.4	1351.1	1626.0	1951.0
85°	147.3	163.0	98.2	138.4	146.3	136.5	140.4	446.8	599.9	768.8	846.4
87.5°	22.6	17.7	23.6	32.4	37.3	31.4	27.5	52.0	80.5	107.0	126.7
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°	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3	3614.3
2.5°	3623.2	3618.2	3573.1	3507.3	3453.3	3408.1	3378.7	3359.0	3380.6	3341.4	3336.4
5°	3633.0	3599.6	3501.4	3407.1	3334.5	3237.3	3171.5	3127.3	3145.0	3110.6	3096.9
7.5°	3659.5	3598.6	3463.1	3312.9	3175.4	3071.3	2970.2	2873.0	2858.3	2836.7	2837.6
10°	3683.1	3595.7	3418.9	3222.5	3062.5	2878.9	2757.1	2657.0	2634.4	2608.9	2596.1
12.5°	3720.4	3602.5	3363.9	3126.3	2912.3	2700.2	2568.6	2450.8	2428.2	2378.1	2367.3
15°	3795.0	3627.1	3309.9	3007.5	2743.4	2529.3	2359.5	2256.4	2215.1	2159.2	2158.2
17.5°	3892.2	3698.8	3282.4	2895.6	2600.0	2360.5	2180.8	2076.7	2007.0	1973.6	1964.8
20°	4030.6	3792.0	3281.5	2794.4	2450.8	2179.8	1973.6	1855.8	1796.9	1769.4	1752.7
22.5°	4243.7	3929.5	3299.1	2723.8	2300.6	2005.0	1799.8	1637.8	1540.6	1465.0	1475.8
25°	4508.8	4135.7	3339.4	2658.9	2170.0	1838.1	1580.8	1356.0	1182.2	1106.6	1112.5
27.5°	4845.6	4382.2	3443.5	2593.2	2021.7	1658.4	1295.1	1009.4	877.8	789.4	796.3
30°	5276.7	4688.5	3580.0	2542.1	1884.2	1407.0	975.0	744.3	628.4	555.7	548.9
32.5°	5792.1	5132.3	3729.2	2507.7	1734.0	1092.8	703.0	545.9	433.0	391.8	397.7
35°	6430.4	5631.1	3957.0	2457.7	1476.8	777.7	501.7	369.2	311.3	303.4	304.4
37.5°	7012.6	6141.7	4182.8	2373.2	1165.5	552.8	340.7	280.8	268.1	265.1	269.0
40°	7583.1	6607.1	4387.1	2250.5	801.2	379.0	250.4	253.3	242.5	234.7	230.7
42.5°	8117.2	7055.8	4547.1	2024.6	547.9	250.4	221.9	230.7	228.8	213.1	206.2
45°	8693.6	7530.1	4635.5	1708.5	344.6	213.1	199.3	215.0	224.9	207.2	199.3
47.5°	9185.5	7992.5	4631.6	1308.9	233.7	201.3	187.5	201.3	213.1	200.3	193.4
50°	9753.1	8375.5	4505.9	830.7	207.2	186.6	179.7	184.6	200.3	191.5	184.6
52.5°	10383.4	8899.8	4315.4	463.4	196.4	176.7	166.9	172.8	186.6	175.8	179.7
55°	10905.8	9334.8	3867.6	316.2	191.5	165.0	159.1	163.0	168.9	158.1	164.0
57.5°	11372.2	9694.2	3415.0	259.2	184.6	157.1	156.1	148.3	147.3	140.4	134.5
60°	11844.5	9977.9	2804.3	234.7	177.7	158.1	141.4	130.6	121.8	114.9	111.9
62.5°	12206.8	10174.3	2218.1	212.1	167.9	148.3	129.6	111.9	97.2	88.4	88.4
65°	12312.8	10086.9	1561.2	192.4	157.1	139.4	115.9	91.3	73.6	67.8	64.8
67.5°	11973.1	9585.2	1086.9	177.7	146.3	129.6	102.1	74.6	58.9	51.1	49.1
70°	11108.1	8745.7	641.2	157.1	132.6	112.9	93.3	60.9	48.1	40.3	38.3
72.5°	9829.7	7486.9	399.6	133.5	113.9	92.3	69.7	50.1	38.3	31.4	30.4
75°	8119.2	5836.3	261.2	103.1	90.3	72.7	53.0	40.3	33.4	26.5	24.5
77.5°	6510.9	4128.8	233.7	78.6	66.8	52.0	40.3	33.4	27.5	23.6	23.6
80°	3746.9	2356.5	191.5	54.0	41.2	39.3	31.4	27.5	25.5	22.6	21.6
82.5°	1841.0	1132.1	123.7	33.4	23.6	25.5	26.5	24.5	21.6	19.6	19.6
85°	634.3	377.0	50.1	21.6	15.7	15.7	16.7	17.7	16.7	15.7	15.7
87.5°	98.2	71.7	13.7	12.8	9.8	8.8	9.8	10.8	10.8	9.8	9.8
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)