

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: P510316

Luminaire Tested: **VERD-M-CA4-250-730-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510316
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-CA4-250-730-U-T2-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 1130mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31052 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

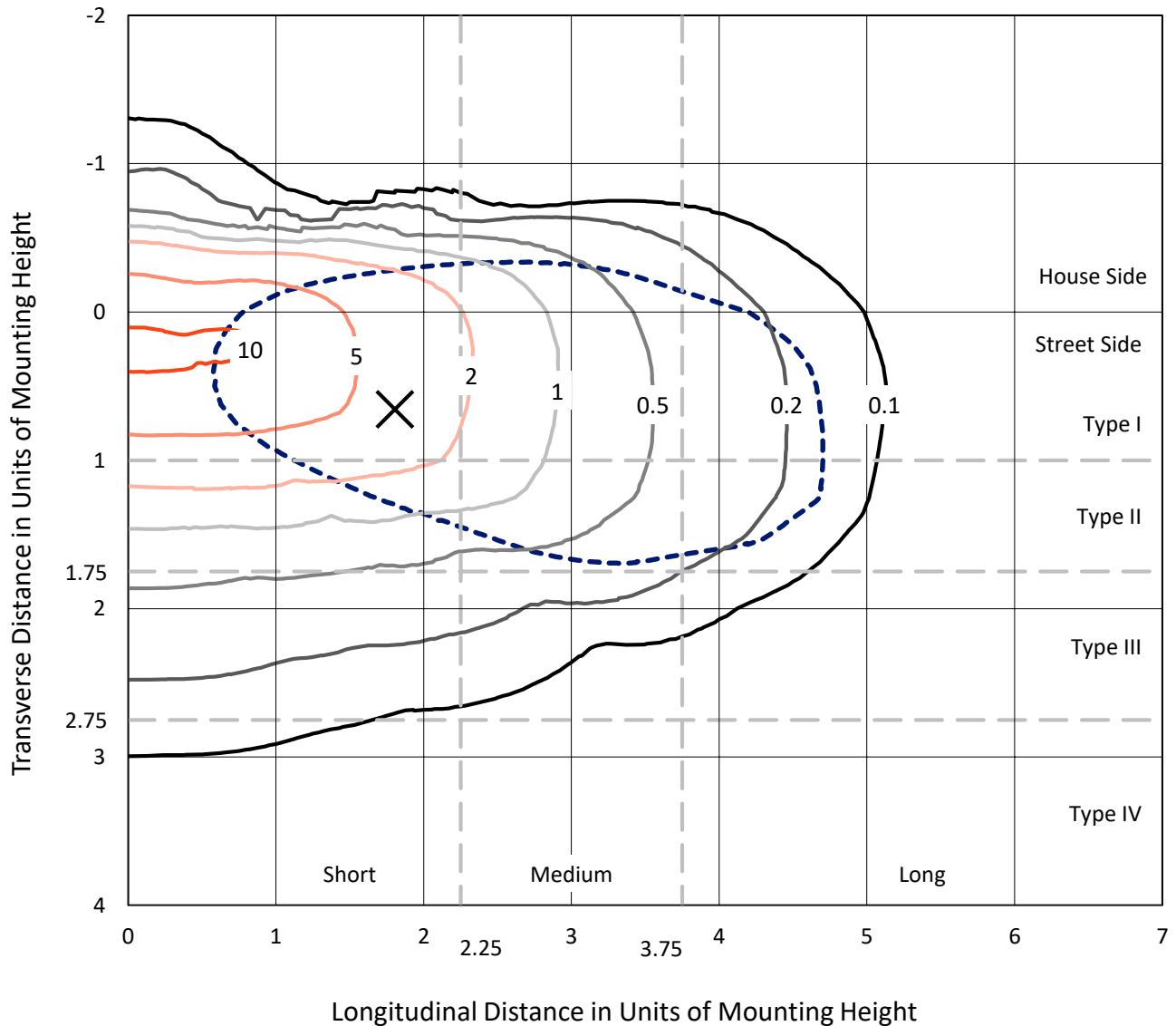
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

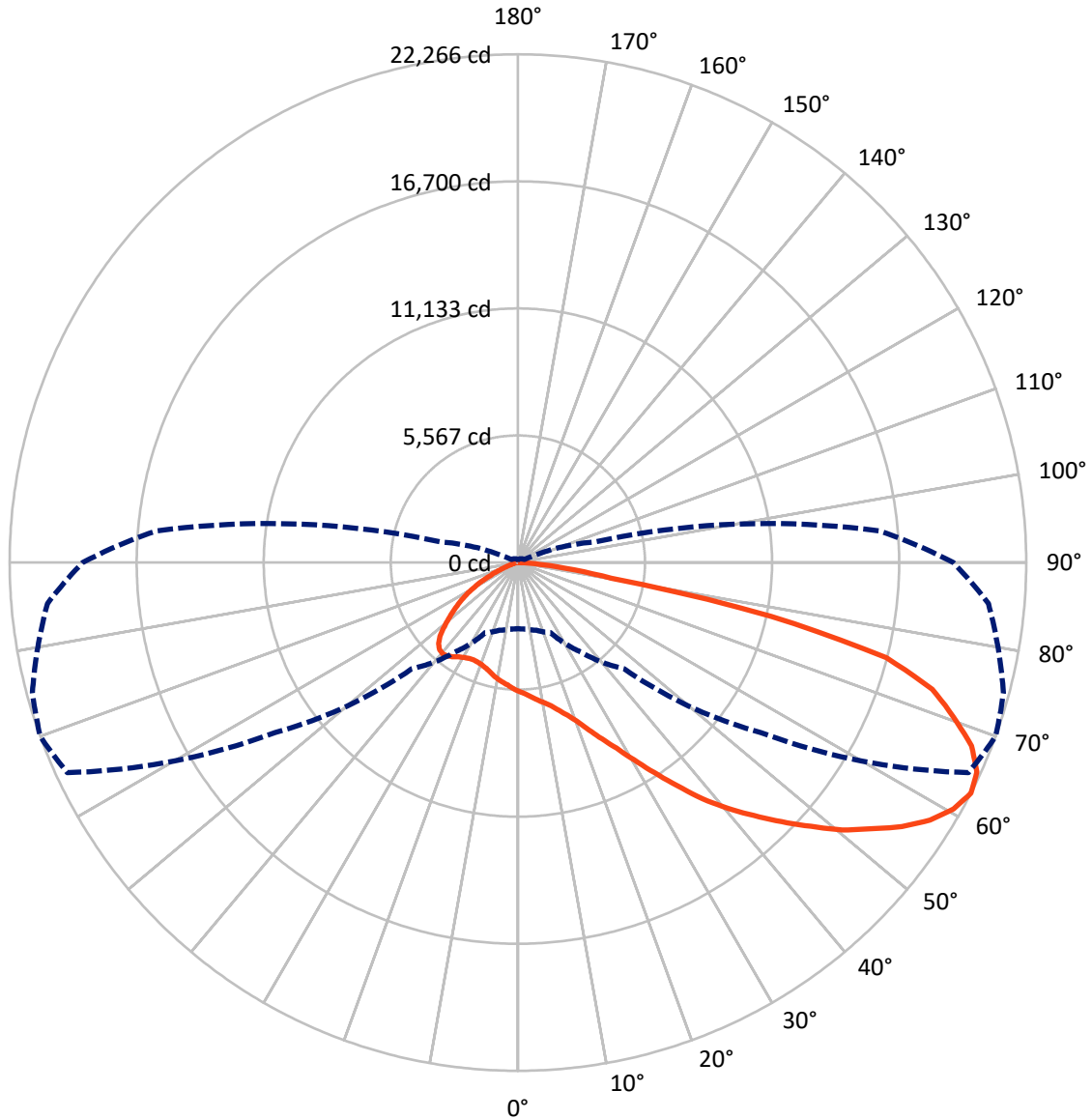
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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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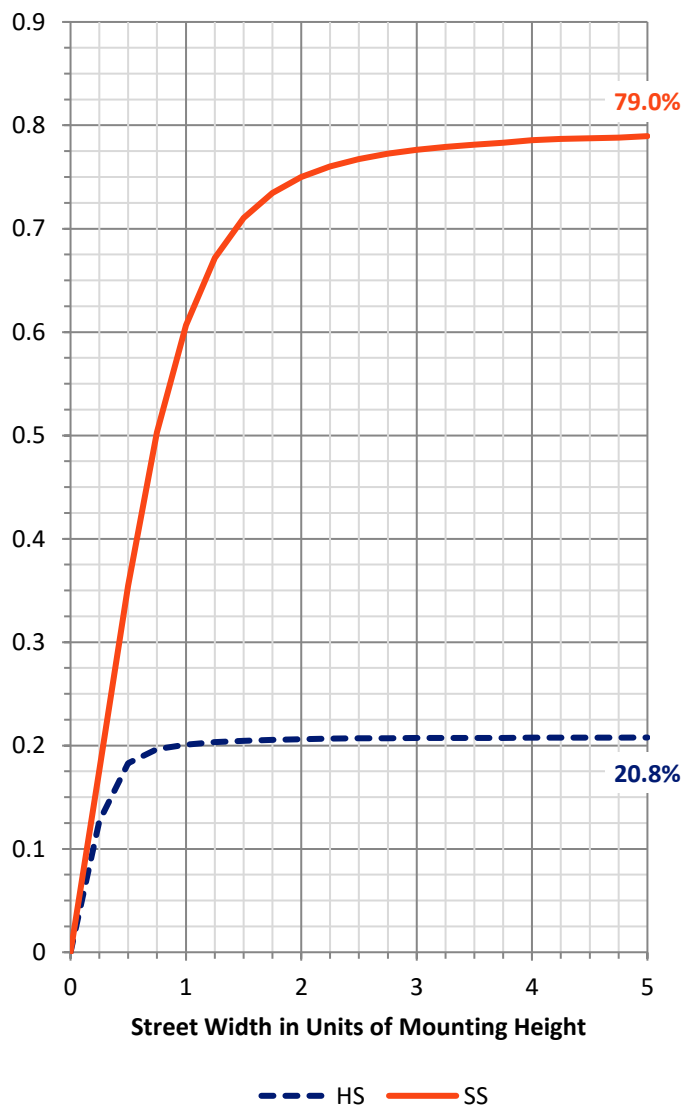
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6529.9	0.0	6529.9
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	24522.1	0.0	24522.1
	% Fixture	79.0	0.0	79.0
Total	Lumens	31052.0	0.0	31052.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.0	1.7
10°-20°	1599.5	5.2
20°-30°	2711.6	8.7
30°-40°	3987.6	12.8
40°-50°	5310.2	17.1
50°-60°	6211.8	20.0
60°-70°	6247.6	20.1
70°-80°	3954.9	12.7
80°-90°	492.8	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°	31052.0	100.0
0°-180°	31052.0	100.0



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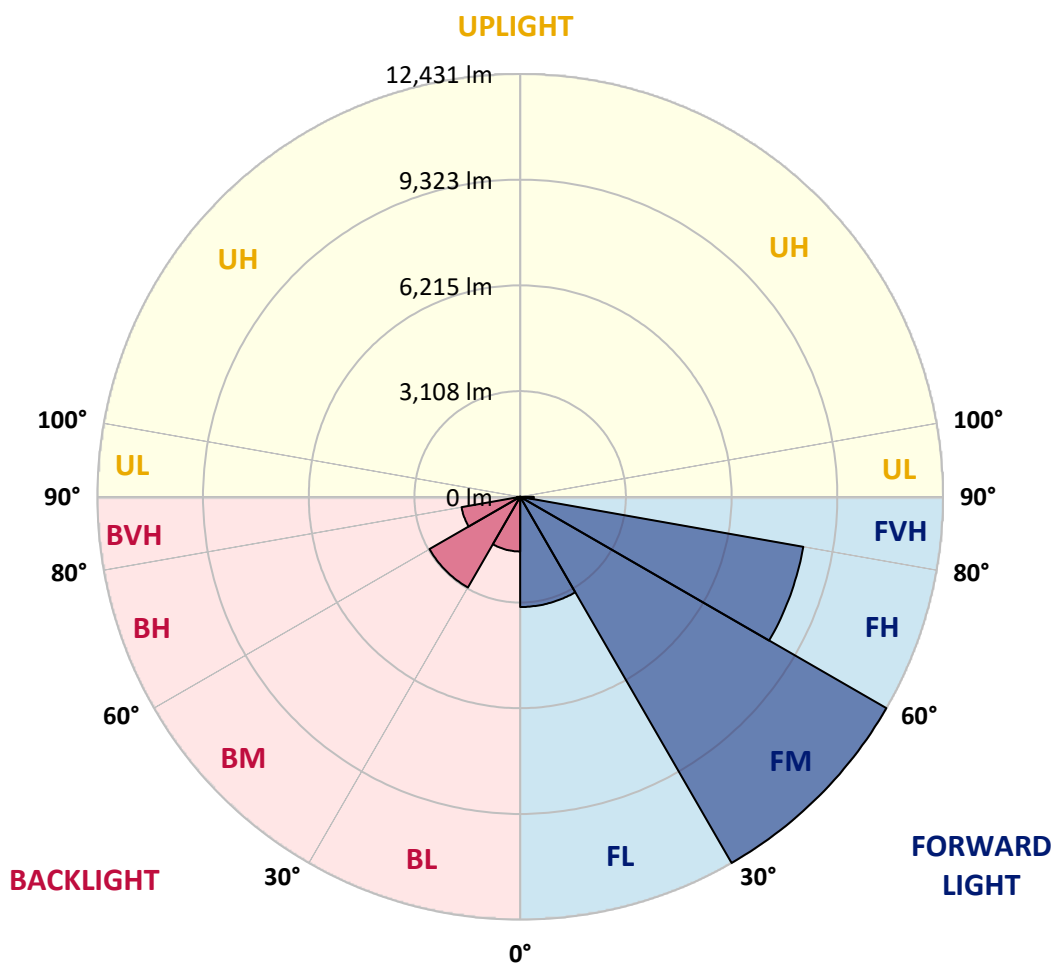
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3239.4	10.4			
FM	(30°-60°)	12430.7	40.0			
FH	(60°-80°)	8452.4	27.2			G4/12000
FVH	(80°-90°)	399.6	1.3			G3/500
BL	(0°-30°)	1607.7	5.2	B3/2500		
BM	(30°-60°)	3078.9	9.9	B3/5000		
BH	(60°-80°)	1750.1	5.6	B3/2500		G3/2500
BVH	(80°-90°)	93.2	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	5645.2	5645.2	5645.2	5645.2	5645.2	5645.2	5645.2	5645.2	5645.2	5645.2	5645.2
2.5°	5955.0	6007.1	5967.2	5951.9	5964.2	5902.8	5853.8	5783.2	5749.5	5724.9	5685.1
5°	6257.1	6343.0	6290.8	6258.6	6254.0	6142.1	6076.1	5979.5	5904.4	5838.4	5737.2
7.5°	6576.1	6626.7	6606.8	6569.9	6545.4	6408.9	6292.4	6155.9	6073.1	5985.6	5815.4
10°	6855.2	6916.5	6896.6	6830.7	6807.7	6668.1	6534.7	6349.1	6235.6	6126.7	5892.1
12.5°	7143.5	7212.5	7171.1	7105.2	7085.2	6944.1	6806.1	6580.7	6439.6	6316.9	5991.8
15°	7408.8	7471.7	7442.6	7367.4	7347.5	7227.9	7076.0	6865.9	6712.6	6550.0	6132.9
17.5°	7620.5	7683.3	7646.5	7611.3	7605.1	7487.0	7396.6	7181.9	7036.2	6815.3	6349.1
20°	7775.4	7839.8	7821.4	7838.2	7902.6	7815.2	7760.0	7579.1	7430.3	7191.1	6660.4
22.5°	7898.0	7980.9	8054.5	8088.2	8207.8	8201.7	8189.4	8082.1	7965.5	7717.1	7031.6
25°	7910.3	8005.4	8151.1	8309.0	8526.8	8631.1	8707.8	8690.9	8554.4	8309.0	7545.3
27.5°	7928.7	8026.9	8177.2	8448.6	8838.1	9082.0	9209.3	9287.5	9207.7	9043.6	8129.6
30°	7888.8	7990.1	8178.7	8525.3	9051.3	9503.7	9730.7	10020.5	10029.7	9891.7	9011.4
32.5°	7707.9	7841.3	8069.8	8534.5	9258.3	9943.9	10293.5	10850.2	10971.4	10868.6	9920.9
35°	7405.8	7526.9	7853.6	8453.2	9384.1	10310.4	10949.9	11817.9	11997.4	11991.2	10991.3
37.5°	7071.4	7194.1	7562.2	8261.5	9465.4	10637.1	11528.1	12778.0	13135.3	13060.1	12002.0
40°	6701.8	6830.7	7255.5	8020.7	9425.5	10928.4	12140.0	13708.9	14152.1	14161.3	12968.1
42.5°	6272.4	6378.2	6804.6	7687.9	9293.6	11143.1	12708.9	14688.8	15155.0	15129.0	13879.1
45°	5861.4	5971.8	6344.5	7172.6	8988.4	11262.8	13267.2	15681.1	16191.8	16108.9	14891.3
47.5°	5364.5	5522.5	5947.3	6740.2	8517.6	11253.6	13754.9	16696.3	17269.9	17202.4	15765.4
50°	4128.5	4222.0	5183.6	6293.9	7879.6	11038.9	14231.8	17693.1	18418.5	18286.6	16697.8
52.5°	3719.0	3803.3	4113.1	5758.7	7299.9	10574.2	14629.0	18834.1	19377.0	19274.3	17650.2
55°	3515.0	3561.0	3749.7	4749.6	6734.0	9819.6	14894.3	19847.9	20412.2	20185.2	18541.2
57.5°	3258.9	3315.6	3534.9	4056.4	6037.8	8661.8	14833.0	20761.9	21283.3	20935.2	19326.4
60°	3062.6	3105.5	3311.0	3651.5	5318.5	7462.5	14205.7	21659.0	21921.3	21577.8	20108.6
62.5°	2897.0	2921.5	3065.7	3389.3	4771.0	6586.8	12981.9	21778.7	22266.3	22017.9	20691.3
65°	2691.5	2697.6	2867.8	3120.9	4264.9	6060.8	11931.4	21165.2	22094.6	22011.8	20901.4
67.5°	2450.7	2463.0	2634.7	2828.0	3656.1	5501.0	10295.1	20835.5	21427.5	21375.3	20485.8
70°	2148.6	2173.1	2331.1	2478.3	3096.3	4829.3	8194.0	19531.9	20234.3	20157.6	19116.3
72.5°	1857.2	1843.4	1990.6	2136.3	2579.5	4031.8	6211.1	17288.3	18979.8	18906.2	17337.4
75°	1525.9	1516.7	1668.6	1806.6	2114.8	3257.4	4369.2	12785.6	16676.4	16903.3	14949.5
77.5°	940.1	947.8	1035.2	1127.2	1432.4	2433.8	2788.1	7112.8	11328.7	13434.3	11732.0
80°	680.9	680.9	745.3	800.5	947.8	1483.0	1387.9	2966.0	4140.7	6484.1	7316.8
82.5°	441.7	423.3	463.1	510.7	527.6	642.6	634.9	1487.6	2110.2	2539.6	3047.3
85°	230.0	254.6	153.4	216.2	228.5	213.2	219.3	697.8	937.0	1200.8	1322.0
87.5°	35.3	27.6	36.8	50.6	58.3	49.1	42.9	81.3	125.8	167.2	197.8
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°	5645.2	5645.2	5645.2	5645.2	5645.2	5645.2	5645.2	5645.2	5645.2	5645.2	5645.2
2.5°	5659.0	5651.3	5580.8	5478.0	5393.7	5323.1	5277.1	5246.4	5280.2	5218.8	5211.2
5°	5674.3	5622.2	5468.8	5321.6	5208.1	5056.3	4953.5	4884.5	4912.1	4858.4	4837.0
7.5°	5715.7	5620.6	5409.0	5174.4	4959.7	4797.1	4639.1	4487.3	4464.3	4430.6	4432.1
10°	5752.5	5616.0	5340.0	5033.3	4783.3	4496.5	4306.3	4149.9	4114.6	4074.8	4054.8
12.5°	5810.8	5626.8	5254.1	4883.0	4548.7	4217.4	4011.9	3827.9	3792.6	3714.4	3697.5
15°	5927.4	5665.1	5169.8	4697.4	4284.9	3950.6	3685.2	3524.2	3459.8	3372.4	3370.9
17.5°	6079.2	5777.1	5126.8	4522.6	4061.0	3686.8	3406.1	3243.6	3134.7	3082.5	3068.7
20°	6295.4	5922.8	5125.3	4364.6	3827.9	3404.6	3082.5	2898.5	2806.5	2763.5	2737.5
22.5°	6628.2	6137.5	5152.9	4254.2	3593.2	3131.6	2811.1	2558.0	2406.2	2288.1	2305.0
25°	7042.3	6459.5	5215.8	4153.0	3389.3	2870.9	2469.1	2117.9	1846.5	1728.4	1737.6
27.5°	7568.3	6844.5	5378.3	4050.2	3157.7	2590.3	2022.8	1576.5	1371.0	1233.0	1243.7
30°	8241.6	7322.9	5591.5	3970.5	2943.0	2197.6	1522.9	1162.5	981.5	868.0	857.3
32.5°	9046.7	8016.1	5824.6	3916.8	2708.3	1706.9	1098.1	852.7	676.3	611.9	621.1
35°	10043.5	8795.2	6180.4	3838.6	2306.5	1214.6	783.7	576.6	486.2	473.9	475.4
37.5°	10953.0	9592.7	6533.1	3706.7	1820.4	863.4	532.2	438.6	418.7	414.1	420.2
40°	11844.0	10319.6	6852.1	3515.0	1251.4	592.0	391.1	395.7	378.8	366.5	360.4
42.5°	12678.3	11020.5	7102.1	3162.3	855.7	391.1	346.6	360.4	357.3	332.8	322.1
45°	13578.5	11761.2	7240.1	2668.5	538.3	332.8	311.3	335.9	351.2	323.6	311.3
47.5°	14346.8	12483.5	7234.0	2044.3	365.0	314.4	292.9	314.4	332.8	312.9	302.1
50°	15233.3	13081.6	7037.7	1297.4	323.6	291.4	280.6	288.3	312.9	299.1	288.3
52.5°	16217.8	13900.6	6740.2	723.9	306.7	276.0	260.7	269.9	291.4	274.5	280.6
55°	17033.7	14579.9	6040.9	493.8	299.1	257.6	248.4	254.6	263.8	246.9	256.1
57.5°	17762.2	15141.2	5333.9	404.9	288.3	245.4	243.8	231.6	230.0	219.3	210.1
60°	18499.8	15584.4	4380.0	366.5	277.6	246.9	220.8	204.0	190.2	179.4	174.8
62.5°	19065.7	15891.2	3464.4	331.3	262.2	231.6	202.4	174.8	151.8	138.0	138.0
65°	19231.3	15754.7	2438.4	300.6	245.4	217.8	181.0	142.6	115.0	105.8	101.2
67.5°	18700.7	14971.0	1697.7	277.6	228.5	202.4	159.5	116.6	92.0	79.7	76.7
70°	17349.6	13659.8	1001.4	245.4	207.0	176.4	145.7	95.1	75.1	62.9	59.8
72.5°	15352.9	11693.7	624.2	208.6	177.9	144.2	108.9	78.2	59.8	49.1	47.5
75°	12681.3	9115.7	407.9	161.0	141.1	113.5	82.8	62.9	52.1	41.4	38.3
77.5°	10169.3	6448.8	365.0	122.7	104.3	81.3	62.9	52.1	42.9	36.8	36.8
80°	5852.2	3680.6	299.1	84.3	64.4	61.3	49.1	42.9	39.9	35.3	33.7
82.5°	2875.5	1768.2	193.2	52.1	36.8	39.9	41.4	38.3	33.7	30.7	30.7
85°	990.7	588.9	78.2	33.7	24.5	24.5	26.1	27.6	26.1	24.5	24.5
87.5°	153.4	112.0	21.5	19.9	15.3	13.8	15.3	16.9	16.9	15.3	15.3
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)