

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: P510004

Luminaire Tested: **VERD-M-CA3-180-760-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510004
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-CA3-180-760-U-T2-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 1120mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23270 lumens
Efficiency: N/A
Efficacy: 127.1 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

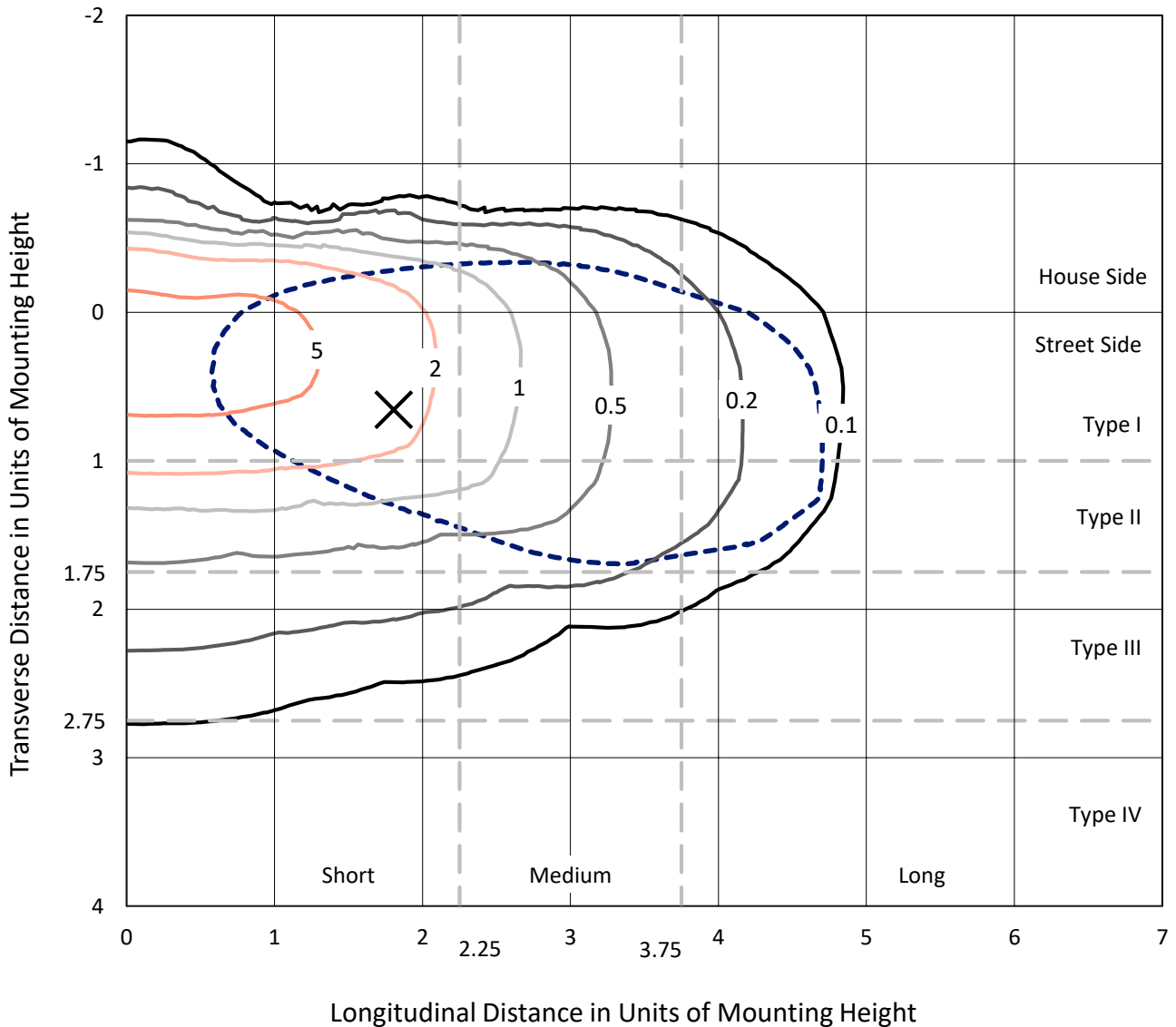
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

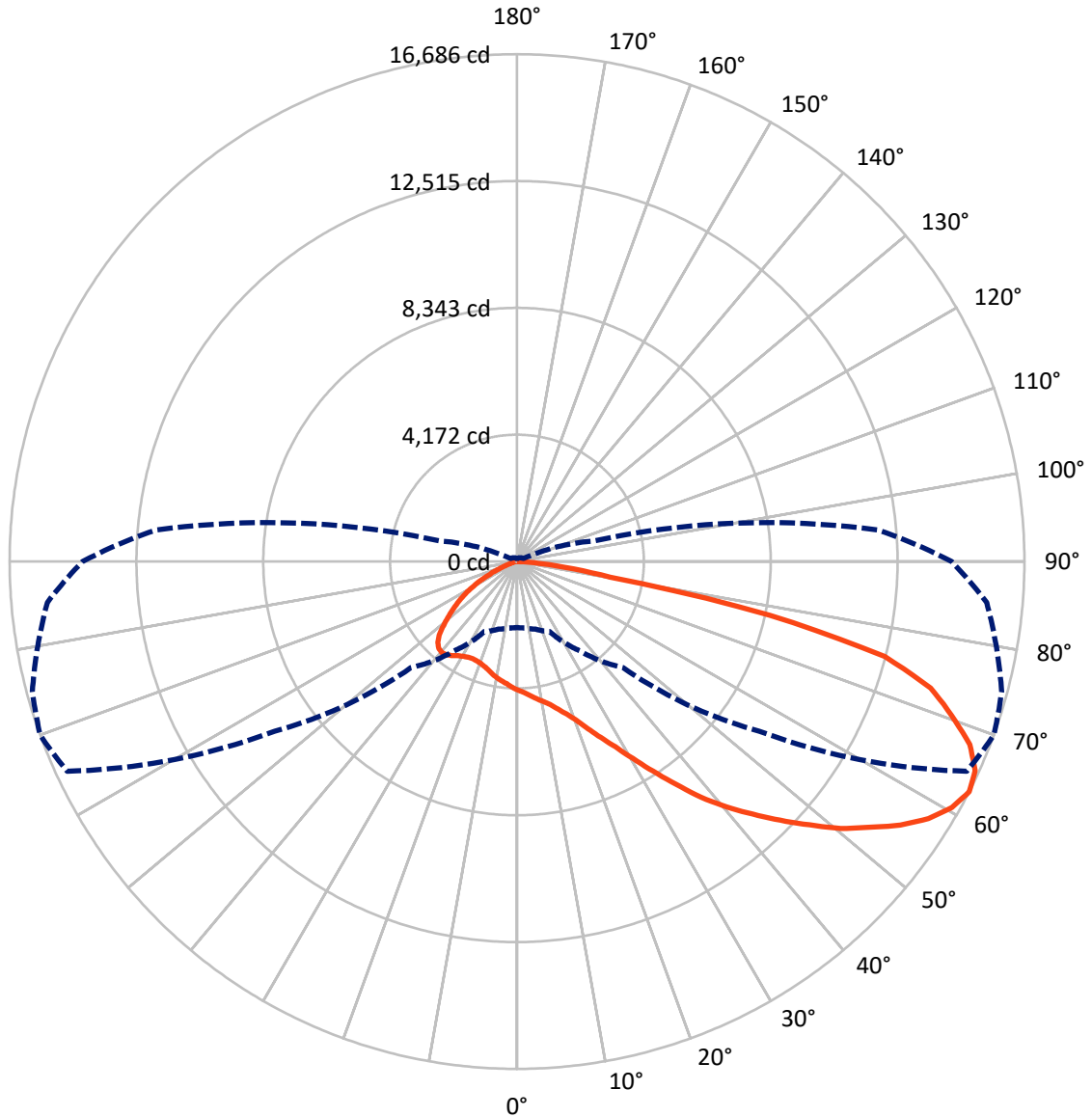
× Max cd
 - - - 1/2 Max cd



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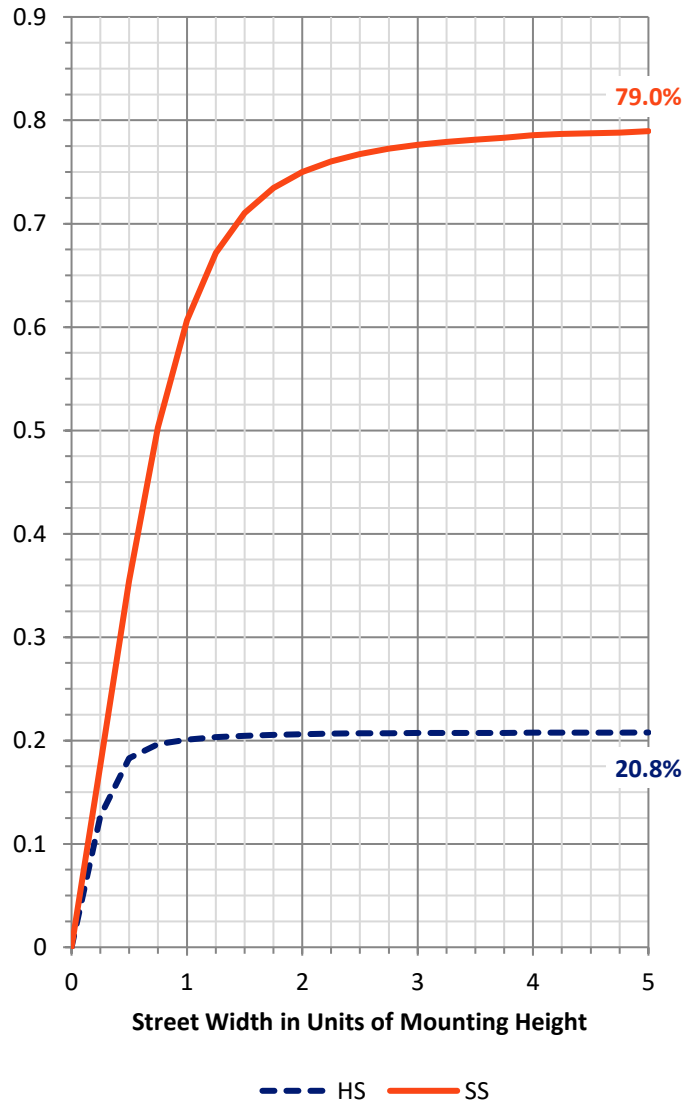
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4893.4	0.0	4893.4
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	18376.6	0.0	18376.6
	% Fixture	79.0	0.0	79.0
Total	Lumens	23270.0	0.0	23270.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.7	1.7
10°-20°	1198.7	5.2
20°-30°	2032.0	8.7
30°-40°	2988.3	12.8
40°-50°	3979.4	17.1
50°-60°	4655.1	20.0
60°-70°	4681.9	20.1
70°-80°	2963.7	12.7
80°-90°	369.3	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°	23270.0	100.0
0°-180°	23270.0	100.0

Coefficient of Utilization



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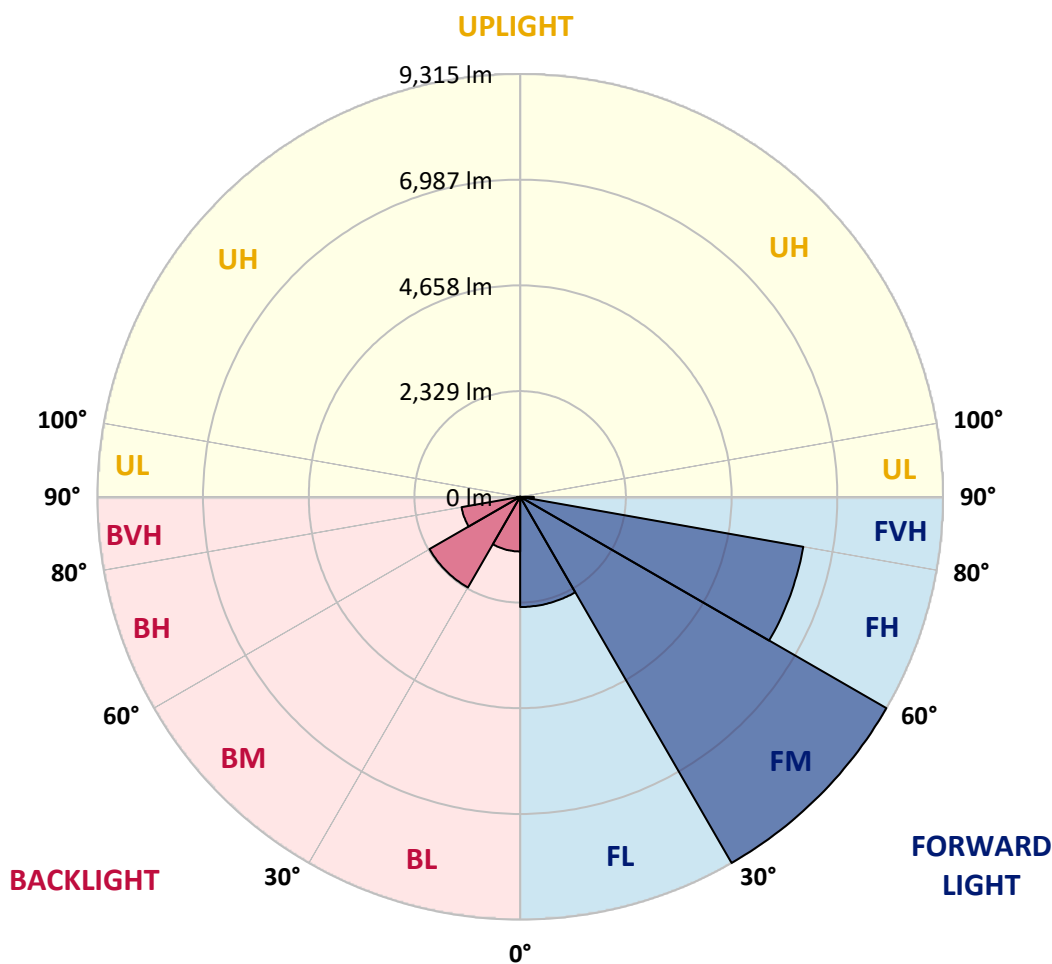
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2427.6	10.4			
FM (30°-60°)	9315.4	40.0			
FH (60°-80°)	6334.1	27.2			G3/7500
FVH (80°-90°)	299.5	1.3			G3/500
BL (0°-30°)	1204.8	5.2	B3/2500		
BM (30°-60°)	2307.3	9.9	B2/2500		
BH (60°-80°)	1311.5	5.6	B3/2500		G3/2500
BVH (80°-90°)	69.8	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°	4230.4	4230.4	4230.4	4230.4	4230.4	4230.4	4230.4	4230.4	4230.4	4230.4	4230.4
2.5°	4462.6	4501.7	4471.8	4460.3	4469.5	4423.5	4386.7	4333.9	4308.6	4290.2	4260.3
5°	4689.0	4753.3	4714.3	4690.1	4686.7	4602.8	4553.4	4481.0	4424.7	4375.2	4299.4
7.5°	4928.0	4966.0	4951.0	4923.4	4905.0	4802.8	4715.4	4613.1	4551.1	4485.6	4358.0
10°	5137.2	5183.2	5168.2	5118.8	5101.6	4997.0	4897.0	4757.9	4672.9	4591.3	4415.5
12.5°	5353.3	5405.0	5373.9	5324.5	5309.6	5203.9	5100.4	4931.5	4825.8	4733.8	4490.2
15°	5552.1	5599.2	5577.4	5521.1	5506.1	5416.5	5302.7	5145.2	5030.3	4908.5	4595.9
17.5°	5710.7	5757.8	5730.2	5703.8	5699.2	5610.7	5542.9	5382.0	5272.8	5107.3	4757.9
20°	5826.8	5875.0	5861.2	5873.9	5922.1	5856.6	5815.3	5679.7	5568.2	5388.9	4991.2
22.5°	5918.7	5980.8	6035.9	6061.2	6150.8	6146.3	6137.1	6056.6	5969.3	5783.1	5269.4
25°	5927.9	5999.1	6108.3	6226.7	6389.9	6468.0	6525.5	6512.9	6410.6	6226.7	5654.4
27.5°	5941.7	6015.2	6127.9	6331.3	6623.2	6805.9	6901.3	6959.9	6900.2	6777.2	6092.2
30°	5911.8	5987.7	6129.0	6388.7	6782.9	7122.0	7292.1	7509.3	7516.2	7412.7	6753.1
32.5°	5776.2	5876.2	6047.4	6395.6	6938.1	7451.8	7713.8	8131.0	8221.8	8144.8	7434.6
35°	5549.8	5640.6	5885.4	6334.7	7032.3	7726.5	8205.7	8856.2	8990.7	8986.1	8236.8
37.5°	5299.2	5391.2	5667.0	6191.1	7093.2	7971.3	8639.0	9575.6	9843.4	9787.1	8994.1
40°	5022.3	5118.8	5437.2	6010.6	7063.4	8189.6	9097.6	10273.3	10605.4	10612.3	9718.2
42.5°	4700.5	4779.8	5099.3	5761.2	6964.5	8350.5	9523.9	11007.6	11357.0	11337.5	10400.8
45°	4392.5	4475.2	4754.5	5375.1	6735.8	8440.2	9942.3	11751.2	12133.9	12071.8	11159.3
47.5°	4020.1	4138.5	4456.8	5051.0	6383.0	8433.3	10307.7	12512.0	12941.8	12891.3	11814.4
50°	3093.8	3163.9	3884.5	4716.6	5904.9	8272.4	10665.1	13259.0	13802.6	13703.8	12513.2
52.5°	2787.0	2850.2	3082.3	4315.5	5470.5	7924.2	10962.8	14114.1	14520.9	14443.9	13226.9
55°	2634.1	2668.6	2809.9	3559.3	5046.4	7358.7	11161.6	14873.7	15296.7	15126.6	13894.6
57.5°	2442.2	2484.7	2649.0	3039.8	4524.6	6491.0	11115.7	15558.7	15949.5	15688.6	14483.0
60°	2295.1	2327.3	2481.3	2736.4	3985.6	5592.3	10645.6	16231.0	16427.5	16170.1	15069.1
62.5°	2171.0	2189.3	2297.4	2539.9	3575.4	4936.1	9728.5	16320.7	16686.1	16500.0	15505.8
65°	2017.0	2021.6	2149.1	2338.7	3196.1	4541.9	8941.3	15861.0	16557.4	16495.4	15663.3
67.5°	1836.5	1845.7	1974.4	2119.2	2739.8	4122.4	7715.0	15613.9	16057.5	16018.4	15351.8
70°	1610.1	1628.5	1746.9	1857.2	2320.4	3619.0	6140.5	14637.0	15163.4	15105.9	14325.5
72.5°	1391.8	1381.4	1491.7	1600.9	1933.1	3021.4	4654.5	12955.6	14223.3	14168.1	12992.4
75°	1143.5	1136.6	1250.4	1353.8	1584.8	2441.0	3274.2	9581.4	12497.1	12667.2	11203.0
77.5°	704.5	710.2	775.8	844.7	1073.4	1823.9	2089.4	5330.3	8489.6	10067.5	8791.9
80°	510.3	510.3	558.5	599.9	710.2	1111.3	1040.1	2222.7	3103.0	4859.1	5483.1
82.5°	331.0	317.2	347.1	382.7	395.3	481.5	475.8	1114.8	1581.4	1903.2	2283.6
85°	172.4	190.8	114.9	162.0	171.2	159.7	164.3	522.9	702.2	899.9	990.7
87.5°	26.4	20.7	27.6	37.9	43.7	36.8	32.2	60.9	94.2	125.3	148.3
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°	4230.4	4230.4	4230.4	4230.4	4230.4	4230.4	4230.4	4230.4	4230.4	4230.4	4230.4
2.5°	4240.8	4235.0	4182.2	4105.2	4042.0	3989.1	3954.6	3931.6	3956.9	3910.9	3905.2
5°	4252.3	4213.2	4098.3	3987.9	3902.9	3789.1	3712.1	3660.4	3681.1	3640.9	3624.8
7.5°	4283.3	4212.0	4053.4	3877.6	3716.7	3594.9	3476.5	3362.7	3345.5	3320.2	3321.4
10°	4310.9	4208.6	4001.7	3771.9	3584.5	3369.6	3227.1	3109.9	3083.5	3053.6	3038.6
12.5°	4354.6	4216.6	3937.4	3659.2	3408.7	3160.5	3006.5	2868.6	2842.1	2783.5	2770.9
15°	4441.9	4245.4	3874.2	3520.2	3211.0	2960.5	2761.7	2641.0	2592.7	2527.2	2526.1
17.5°	4555.7	4329.3	3842.0	3389.2	3043.2	2762.8	2552.5	2430.7	2349.1	2310.0	2299.7
20°	4717.7	4438.4	3840.8	3270.8	2868.6	2551.4	2310.0	2172.1	2103.1	2071.0	2051.4
22.5°	4967.1	4599.3	3861.5	3188.1	2692.7	2346.8	2106.6	1917.0	1803.2	1714.7	1727.3
25°	5277.4	4840.7	3908.6	3112.2	2539.9	2151.4	1850.3	1587.1	1383.7	1295.2	1302.1
27.5°	5671.6	5129.2	4030.5	3035.2	2366.3	1941.1	1515.9	1181.4	1027.4	924.0	932.1
30°	6176.1	5487.7	4190.2	2975.4	2205.4	1646.9	1141.2	871.1	735.5	650.5	642.4
32.5°	6779.5	6007.2	4364.9	2935.2	2029.6	1279.1	822.9	639.0	506.8	458.6	465.5
35°	7526.5	6591.0	4631.5	2876.6	1728.5	910.2	587.3	432.1	364.3	355.1	356.3
37.5°	8208.0	7188.6	4895.9	2777.8	1364.2	647.0	398.8	328.7	313.7	310.3	314.9
40°	8875.7	7733.4	5134.9	2634.1	937.8	443.6	293.1	296.5	283.9	274.7	270.1
42.5°	9500.9	8258.6	5322.2	2369.8	641.3	293.1	259.7	270.1	267.8	249.4	241.3
45°	10175.6	8813.7	5425.7	1999.7	403.4	249.4	233.3	251.7	263.2	242.5	233.3
47.5°	10751.3	9355.0	5421.1	1532.0	273.5	235.6	219.5	235.6	249.4	234.4	226.4
50°	11415.6	9803.2	5274.0	972.3	242.5	218.4	210.3	216.1	234.4	224.1	216.1
52.5°	12153.4	10416.9	5051.0	542.5	229.9	206.9	195.4	202.3	218.4	205.7	210.3
55°	12764.9	10926.0	4526.9	370.1	224.1	193.1	186.2	190.8	197.7	185.0	191.9
57.5°	13310.8	11346.7	3997.1	303.4	216.1	183.9	182.7	173.5	172.4	164.3	157.4
60°	13863.5	11678.8	3282.3	274.7	208.0	185.0	165.5	152.9	142.5	134.5	131.0
62.5°	14287.6	11908.7	2596.2	248.2	196.5	173.5	151.7	131.0	113.8	103.4	103.4
65°	14411.7	11806.4	1827.3	225.3	183.9	163.2	135.6	106.9	86.2	79.3	75.9
67.5°	14014.1	11219.1	1272.2	208.0	171.2	151.7	119.5	87.3	69.0	59.8	57.5
70°	13001.6	10236.5	750.5	183.9	155.2	132.2	109.2	71.3	56.3	47.1	44.8
72.5°	11505.3	8763.1	467.7	156.3	133.3	108.0	81.6	58.6	44.8	36.8	35.6
75°	9503.2	6831.2	305.7	120.7	105.7	85.0	62.1	47.1	39.1	31.0	28.7
77.5°	7620.8	4832.6	273.5	91.9	78.1	60.9	47.1	39.1	32.2	27.6	27.6
80°	4385.6	2758.2	224.1	63.2	48.3	46.0	36.8	32.2	29.9	26.4	25.3
82.5°	2154.9	1325.1	144.8	39.1	27.6	29.9	31.0	28.7	25.3	23.0	23.0
85°	742.4	441.3	58.6	25.3	18.4	18.4	19.5	20.7	19.5	18.4	18.4
87.5°	114.9	83.9	16.1	14.9	11.5	10.3	11.5	12.6	12.6	11.5	11.5
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)