

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: P510252

Luminaire Tested: **VERD-M-CA4-240-722-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510252
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-CA4-240-722-U-T2-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2200K, 1090mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24938 lumens
Efficiency: N/A
Efficacy: 102.9 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

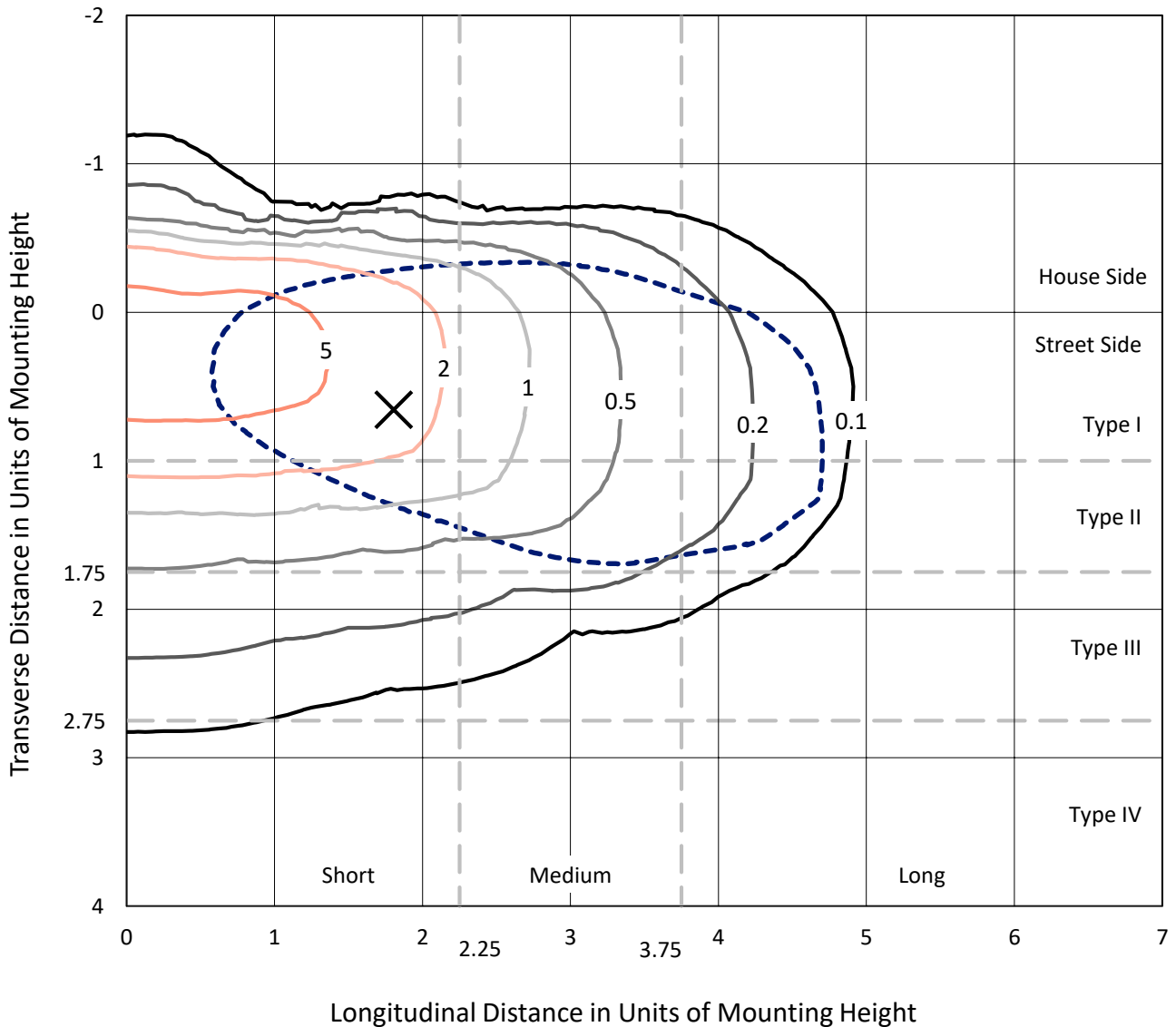
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

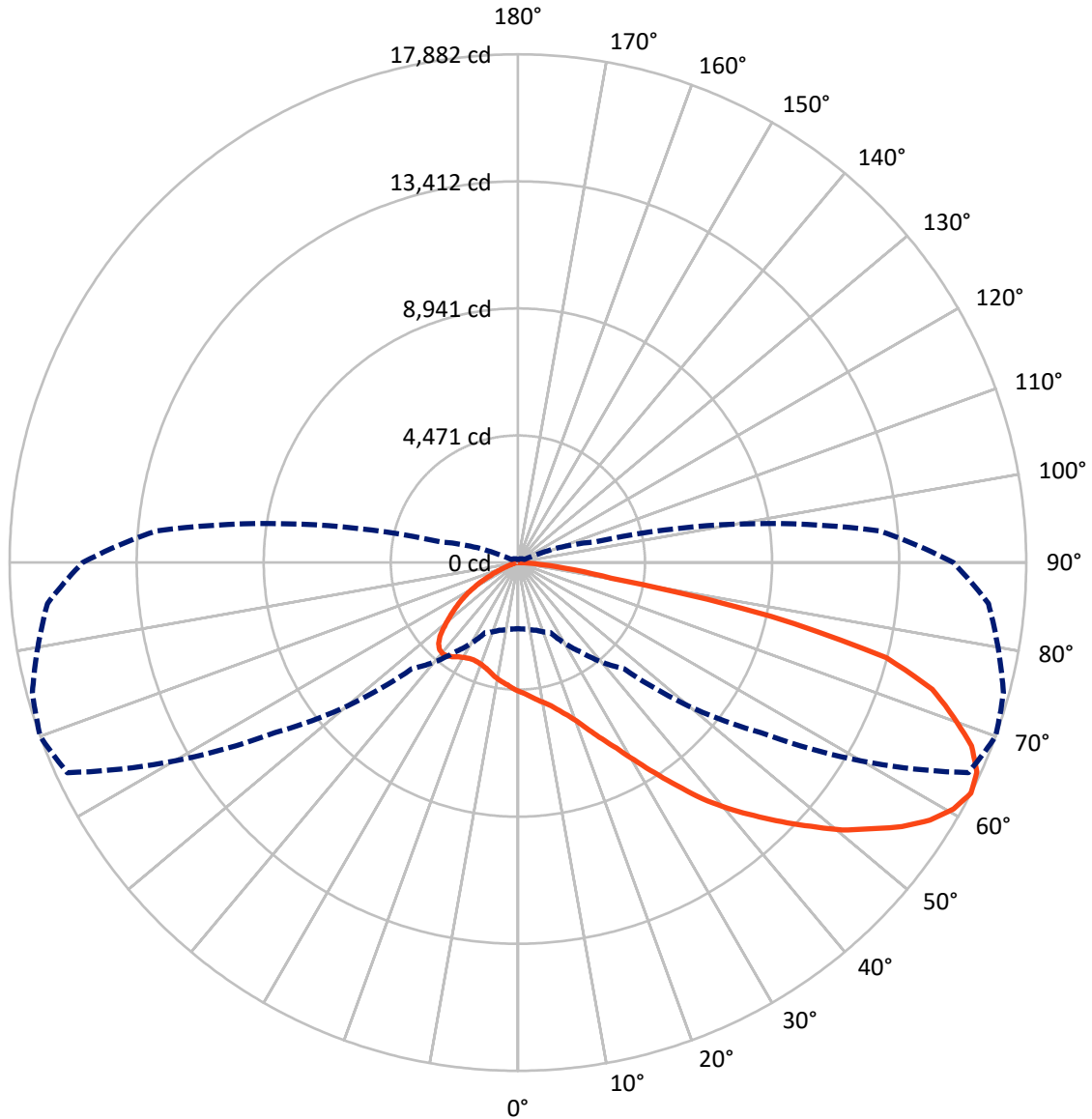
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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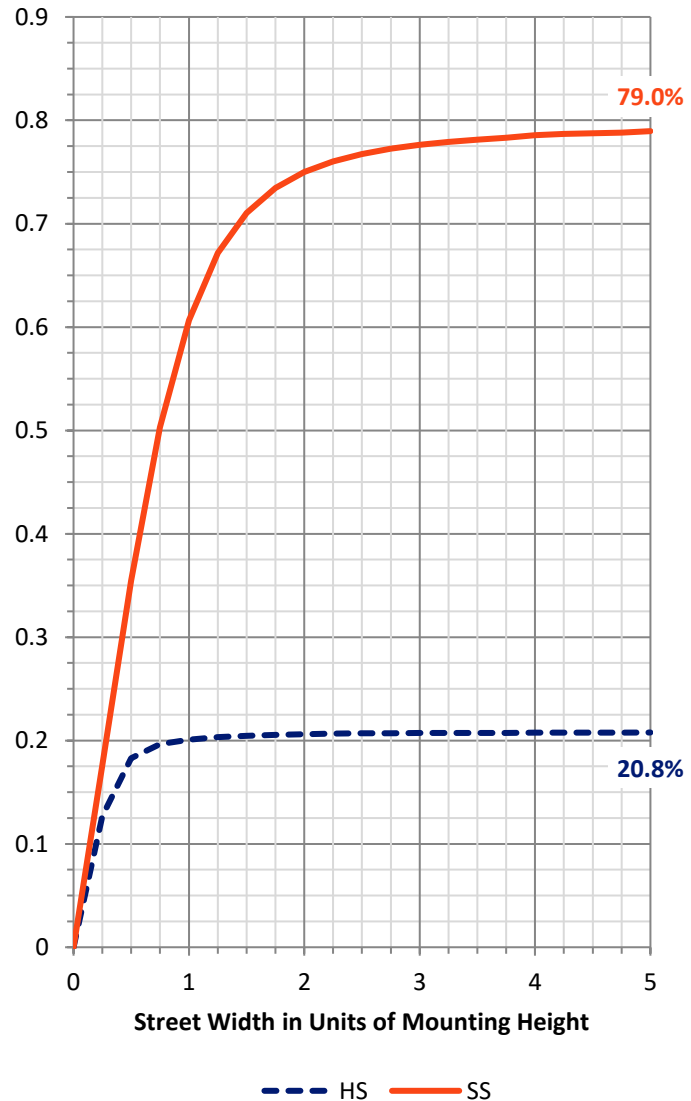
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5244.2	0.0	5244.2
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	19693.8	0.0	19693.8
	% Fixture	79.0	0.0	79.0
Total	Lumens	24938.0	0.0	24938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.4	1.7
10°-20°	1284.6	5.2
20°-30°	2177.7	8.7
30°-40°	3202.5	12.8
40°-50°	4264.6	17.1
50°-60°	4988.8	20.0
60°-70°	5017.5	20.1
70°-80°	3176.2	12.7
80°-90°	395.8	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°	24938.0	100.0
0°-180°	24938.0	100.0

Coefficient of Utilization



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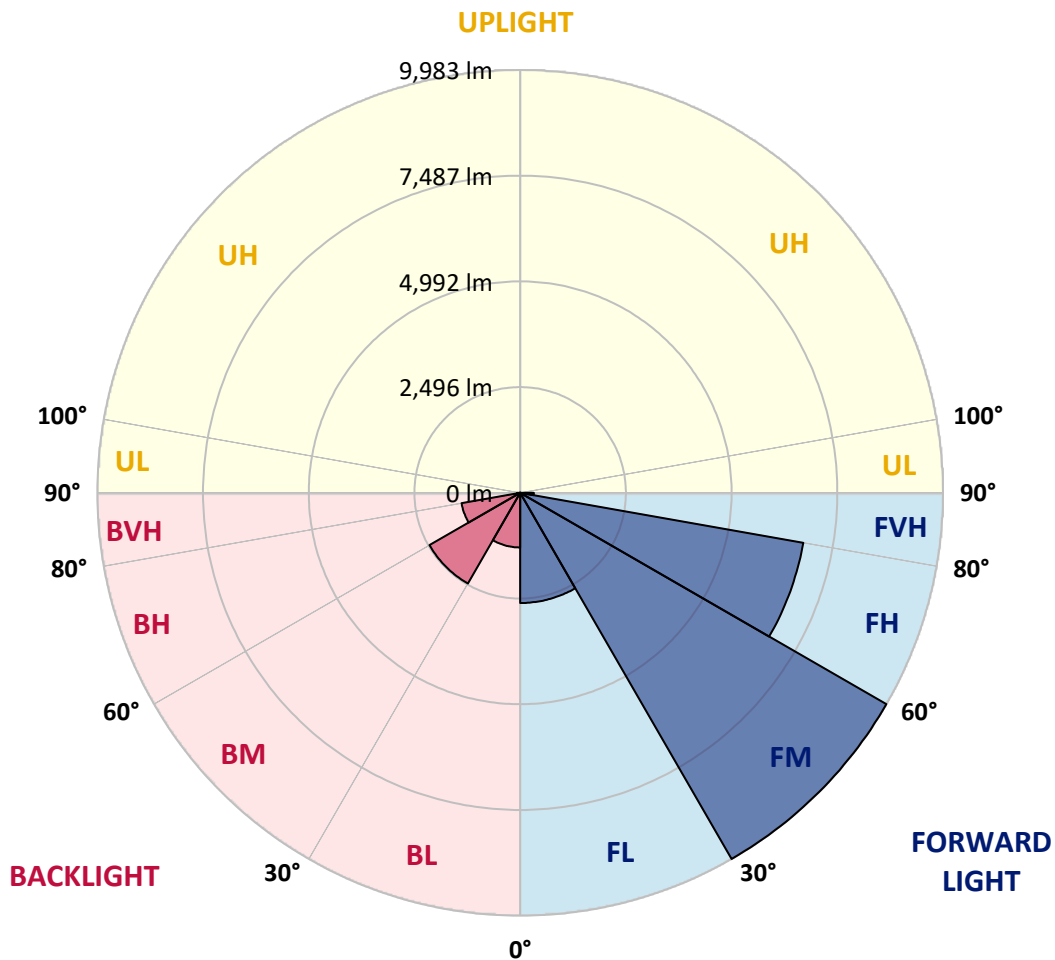
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2601.6	10.4			
FM (30°-60°)	9983.1	40.0			
FH (60°-80°)	6788.1	27.2			G3/7500
FVH (80°-90°)	320.9	1.3			G3/500
BL (0°-30°)	1291.1	5.2	B3/2500		
BM (30°-60°)	2472.7	9.9	B2/2500		
BH (60°-80°)	1405.5	5.6	B3/2500		G3/2500
BVH (80°-90°)	74.8	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°	4533.7	4533.7	4533.7	4533.7	4533.7	4533.7	4533.7	4533.7	4533.7	4533.7	4533.7
2.5°	4782.5	4824.3	4792.3	4780.0	4789.9	4740.6	4701.2	4644.5	4617.4	4597.7	4565.7
5°	5025.1	5094.1	5052.2	5026.3	5022.6	4932.7	4879.8	4802.2	4741.8	4688.9	4607.6
7.5°	5281.3	5321.9	5305.9	5276.4	5256.6	5147.0	5053.4	4943.8	4877.3	4807.1	4670.4
10°	5505.4	5554.7	5538.7	5485.7	5467.3	5355.2	5248.0	5099.0	5007.9	4920.4	4732.0
12.5°	5737.0	5792.4	5759.2	5706.2	5690.2	5576.9	5466.0	5285.0	5171.7	5073.1	4812.0
15°	5950.1	6000.6	5977.2	5916.8	5900.8	5804.7	5682.8	5514.1	5390.9	5260.3	4925.3
17.5°	6120.0	6170.5	6141.0	6112.6	6107.7	6012.9	5940.2	5767.8	5650.8	5473.4	5099.0
20°	6244.4	6296.2	6281.4	6294.9	6346.6	6276.4	6232.1	6086.8	5967.3	5775.2	5349.0
22.5°	6343.0	6409.5	6468.6	6495.7	6591.7	6586.8	6577.0	6490.7	6397.1	6197.6	5647.1
25°	6352.8	6429.2	6546.2	6673.0	6847.9	6931.7	6993.3	6979.7	6870.1	6673.0	6059.7
27.5°	6367.6	6446.4	6567.1	6785.1	7097.9	7293.8	7396.0	7458.8	7394.8	7263.0	6528.9
30°	6335.6	6416.9	6568.3	6846.7	7269.1	7632.5	7814.8	8047.5	8054.9	7944.1	7237.1
32.5°	6190.2	6297.4	6480.9	6854.1	7435.4	7986.0	8266.8	8713.9	8811.2	8728.6	7967.5
35°	5947.6	6044.9	6307.2	6788.8	7536.4	8280.3	8793.9	9491.0	9635.1	9630.2	8827.2
37.5°	5679.1	5777.6	6073.2	6634.9	7601.7	8542.7	9258.2	10262.0	10549.0	10488.7	9638.8
40°	5382.3	5485.7	5826.9	6441.5	7569.7	8776.7	9749.7	11009.6	11365.6	11373.0	10414.8
42.5°	5037.4	5122.4	5464.8	6174.2	7463.7	8949.1	10206.6	11796.7	12171.1	12150.1	11146.4
45°	4707.3	4796.0	5095.3	5760.4	7218.6	9045.2	10654.9	12593.5	13003.7	12937.2	11959.2
47.5°	4308.3	4435.1	4776.3	5413.1	6840.5	9037.8	11046.6	13408.9	13869.5	13815.3	12661.3
50°	3315.6	3390.7	4162.9	5054.7	6328.2	8865.4	11429.6	14209.4	14792.0	14686.1	13410.1
52.5°	2986.7	3054.5	3303.3	4624.8	5862.6	8492.2	11748.6	15125.8	15561.8	15479.3	14175.0
55°	2822.9	2859.9	3011.4	3814.4	5408.1	7886.2	11961.7	15939.9	16393.1	16210.9	14890.5
57.5°	2617.2	2662.8	2838.9	3257.7	4849.0	6956.3	11912.4	16674.0	17092.7	16813.1	15521.1
60°	2459.6	2494.1	2659.1	2932.5	4271.3	5993.2	11408.7	17394.5	17605.1	17329.2	16149.3
62.5°	2326.6	2346.3	2462.1	2721.9	3831.6	5289.9	10425.8	17490.5	17882.2	17682.7	16617.3
65°	2161.5	2166.5	2303.2	2506.4	3425.2	4867.4	9582.2	16997.9	17744.3	17677.7	16786.0
67.5°	1968.2	1978.0	2116.0	2271.1	2936.2	4417.9	8268.0	16733.1	17208.5	17166.6	16452.3
70°	1725.5	1745.2	1872.1	1990.3	2486.7	3878.4	6580.7	15686.2	16250.3	16188.7	15352.4
72.5°	1491.5	1480.4	1598.7	1715.7	2071.6	3238.0	4988.1	13884.3	15242.8	15183.7	13923.7
75°	1225.5	1218.1	1340.0	1450.9	1698.4	2616.0	3508.9	10268.2	13392.9	13575.1	12006.0
77.5°	755.0	761.2	831.4	905.3	1150.4	1954.6	2239.1	5712.4	9098.1	10789.2	9422.1
80°	546.8	546.8	598.6	642.9	761.2	1191.0	1114.6	2382.0	3325.4	5207.4	5876.2
82.5°	354.7	339.9	372.0	410.1	423.7	516.1	509.9	1194.7	1694.7	2039.6	2447.3
85°	184.7	204.5	123.2	173.7	183.5	171.2	176.1	560.4	752.5	964.4	1061.7
87.5°	28.3	22.2	29.6	40.6	46.8	39.4	34.5	65.3	101.0	134.2	158.9
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°	4533.7	4533.7	4533.7	4533.7	4533.7	4533.7	4533.7	4533.7	4533.7	4533.7	4533.7
2.5°	4544.8	4538.6	4481.9	4399.4	4331.7	4275.0	4238.1	4213.4	4240.5	4191.3	4185.1
5°	4557.1	4515.2	4392.0	4273.8	4182.7	4060.7	3978.2	3922.8	3944.9	3901.8	3884.6
7.5°	4590.3	4514.0	4344.0	4155.6	3983.1	3852.6	3725.7	3603.8	3585.3	3558.2	3559.4
10°	4619.9	4510.3	4288.6	4042.2	3841.5	3611.2	3458.4	3332.8	3304.5	3272.5	3256.5
12.5°	4666.7	4518.9	4219.6	3921.5	3653.0	3387.0	3222.0	3074.2	3045.8	2983.0	2969.5
15°	4760.3	4549.7	4151.9	3772.5	3441.2	3172.7	2959.6	2830.3	2778.6	2708.4	2707.1
17.5°	4882.2	4639.6	4117.4	3632.1	3261.4	2960.9	2735.5	2604.9	2517.5	2475.6	2464.5
20°	5055.9	4756.6	4116.1	3505.3	3074.2	2734.2	2475.6	2327.8	2253.9	2219.4	2198.5
22.5°	5323.2	4929.0	4138.3	3416.6	2885.7	2515.0	2257.6	2054.4	1932.4	1837.6	1851.2
25°	5655.7	5187.7	4188.8	3335.3	2721.9	2305.6	1982.9	1700.9	1482.9	1388.1	1395.4
27.5°	6078.1	5496.8	4319.4	3252.8	2535.9	2080.2	1624.5	1266.1	1101.1	990.2	998.9
30°	6618.8	5881.1	4490.6	3188.7	2363.5	1764.9	1223.0	933.6	788.3	697.1	688.5
32.5°	7265.5	6437.8	4677.8	3145.6	2175.1	1370.8	881.9	684.8	543.2	491.4	498.8
35°	8066.0	7063.5	4963.5	3082.8	1852.4	975.5	629.4	463.1	390.4	380.6	381.8
37.5°	8796.4	7703.9	5246.8	2976.9	1462.0	693.4	427.4	352.2	336.2	332.5	337.5
40°	9512.0	8287.7	5503.0	2822.9	1005.0	475.4	314.1	317.8	304.2	294.4	289.4
42.5°	10182.0	8850.6	5703.7	2539.6	687.3	314.1	278.4	289.4	287.0	267.3	258.6
45°	10905.0	9445.5	5814.6	2143.1	432.3	267.3	250.0	269.7	282.0	259.9	250.0
47.5°	11522.0	10025.6	5809.7	1641.8	293.1	252.5	235.2	252.5	267.3	251.3	242.6
50°	12233.9	10505.9	5652.0	1042.0	259.9	234.0	225.4	231.5	251.3	240.2	231.5
52.5°	13024.6	11163.6	5413.1	581.3	246.3	221.7	209.4	216.8	234.0	220.5	225.4
55°	13679.8	11709.2	4851.4	396.6	240.2	206.9	199.5	204.5	211.8	198.3	205.7
57.5°	14264.9	12160.0	4283.6	325.2	231.5	197.1	195.8	186.0	184.7	176.1	168.7
60°	14857.3	12515.9	3517.6	294.4	222.9	198.3	177.4	163.8	152.7	144.1	140.4
62.5°	15311.8	12762.3	2782.3	266.0	210.6	186.0	162.6	140.4	121.9	110.8	110.8
65°	15444.8	12652.7	1958.3	241.4	197.1	174.9	145.3	114.5	92.4	85.0	81.3
67.5°	15018.6	12023.3	1363.4	222.9	183.5	162.6	128.1	93.6	73.9	64.0	61.6
70°	13933.6	10970.2	804.3	197.1	166.3	141.6	117.0	76.4	60.4	50.5	48.0
72.5°	12330.0	9391.3	501.3	167.5	142.9	115.8	87.4	62.8	48.0	39.4	38.2
75°	10184.4	7320.9	327.6	129.3	113.3	91.1	66.5	50.5	41.9	33.3	30.8
77.5°	8167.0	5179.1	293.1	98.5	83.8	65.3	50.5	41.9	34.5	29.6	29.6
80°	4699.9	2955.9	240.2	67.7	51.7	49.3	39.4	34.5	32.0	28.3	27.1
82.5°	2309.3	1420.1	155.2	41.9	29.6	32.0	33.3	30.8	27.1	24.6	24.6
85°	795.6	473.0	62.8	27.1	19.7	19.7	20.9	22.2	20.9	19.7	19.7
87.5°	123.2	89.9	17.2	16.0	12.3	11.1	12.3	13.5	13.5	12.3	12.3
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)