

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: P510047

Luminaire Tested: **VERD-M-CA4-190-750-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-190-750-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 870mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28216 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

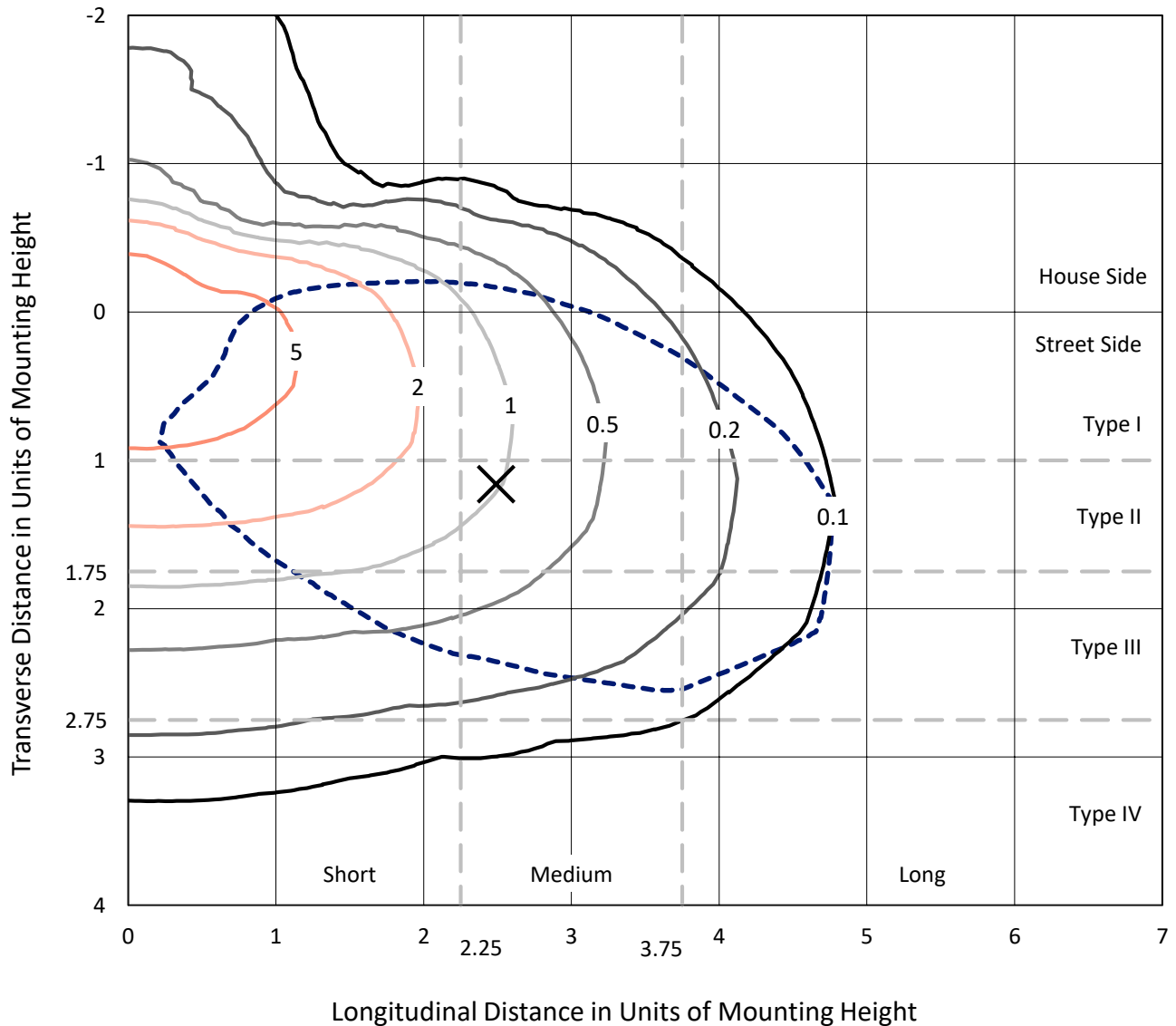
Input Watts (W): 193.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

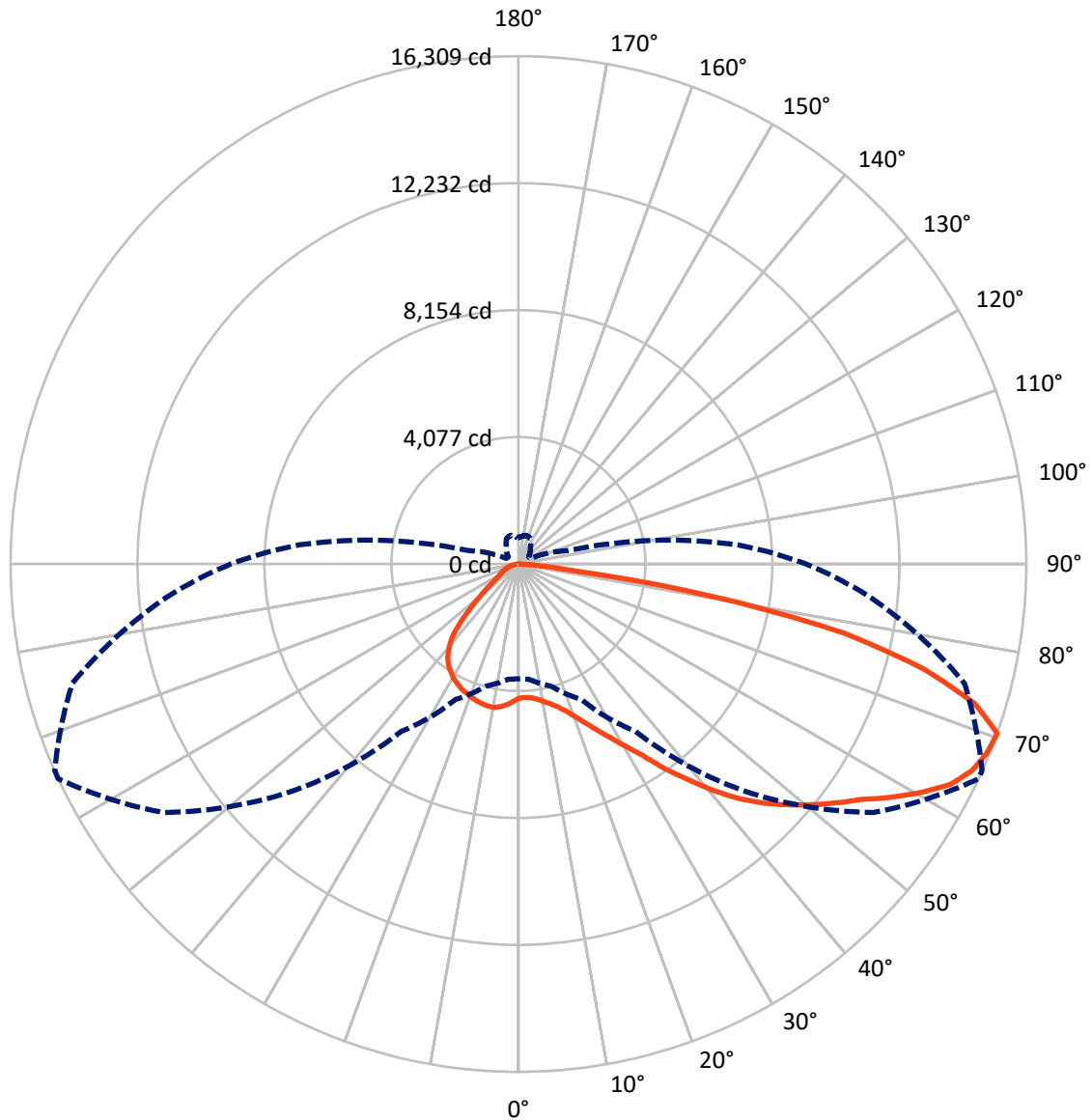
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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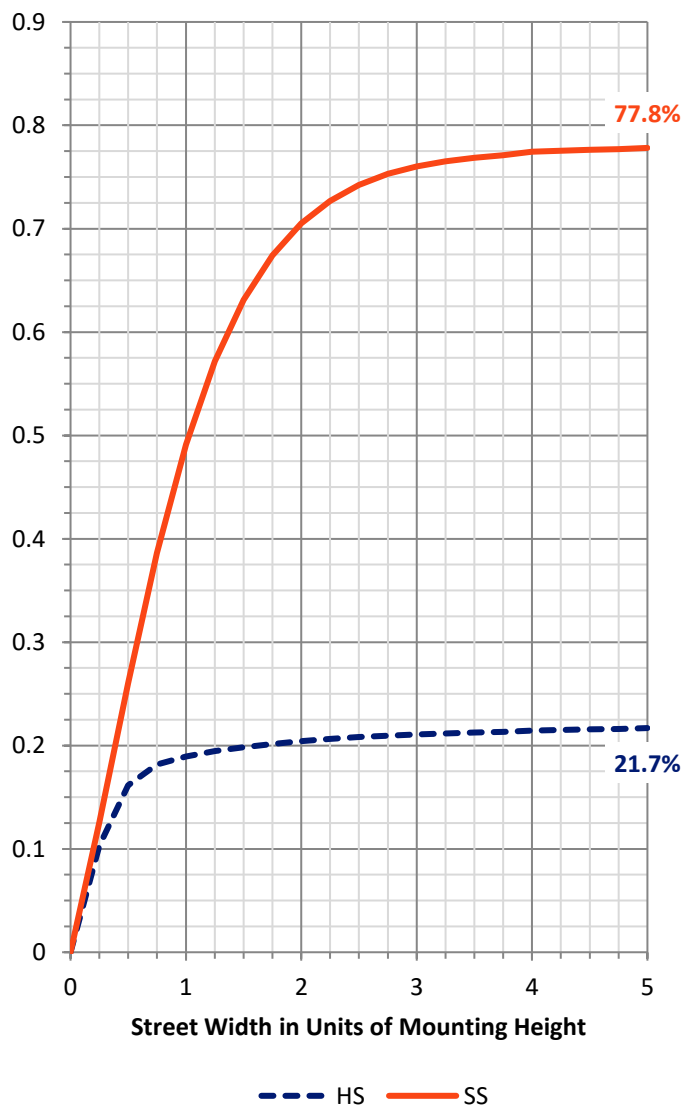
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6224.2	0.0	6224.2
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	21991.8	0.0	21991.8
	% Fixture	77.9	0.0	77.9
Total	Lumens	28216.0	0.0	28216.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.1	1.5
10°-20°	1365.8	4.8
20°-30°	2369.4	8.4
30°-40°	3445.1	12.2
40°-50°	4602.7	16.3
50°-60°	5606.4	19.9
60°-70°	6043.9	21.4
70°-80°	3918.5	13.9
80°-90°	432.2	1.5
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°	28216.0	100.0
0°-180°	28216.0	100.0

Coefficient of Utilization



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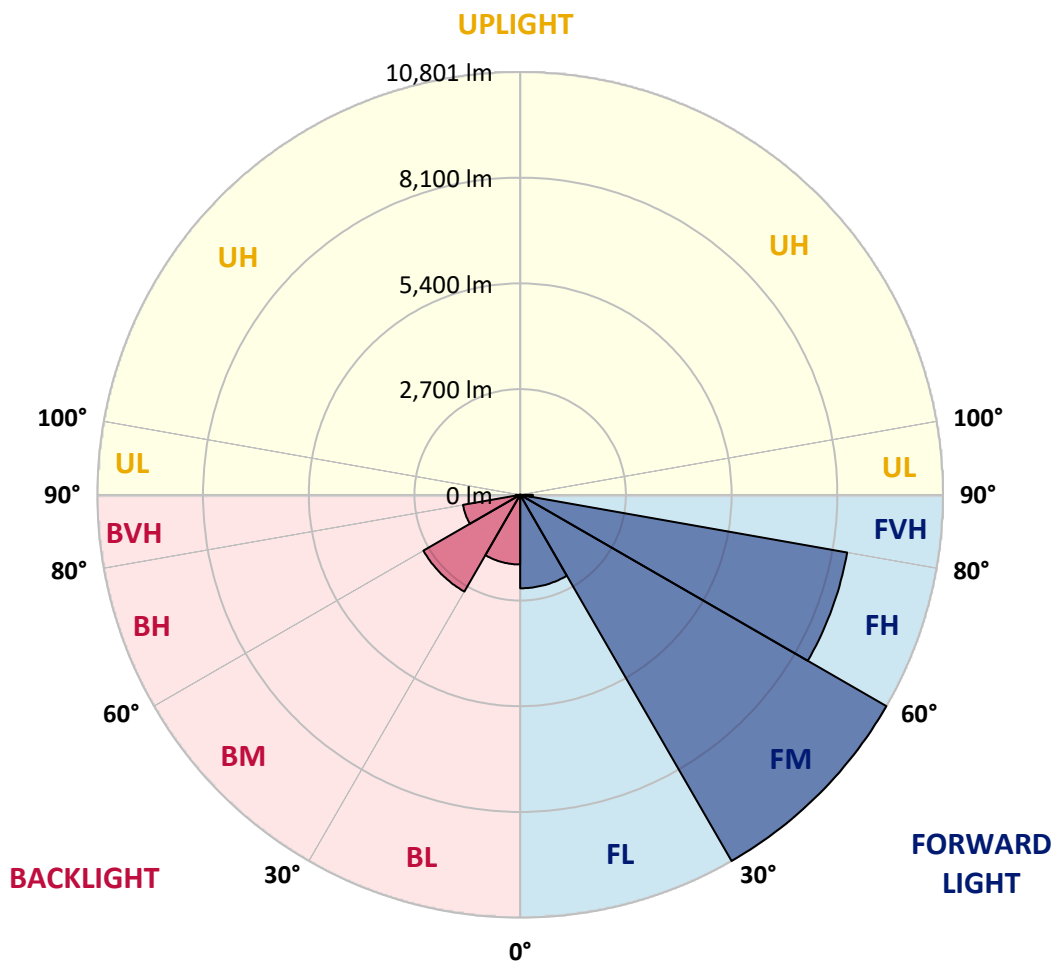
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2387.9	8.5			
FM	(30°-60°)	10800.6	38.3			
FH	(60°-80°)	8481.0	30.1			G4/12000
FVH	(80°-90°)	322.3	1.1			G3/500
BL	(0°-30°)	1779.5	6.3	B3/2500		
BM	(30°-60°)	2853.6	10.1	B3/5000		
BH	(60°-80°)	1481.3	5.2	B3/2500		G3/2500
BVH	(80°-90°)	109.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4307.8	4307.8	4307.8	4307.8	4307.8	4307.8	4307.8	4307.8	4307.8	4307.8	4307.8
2.5°	4244.2	4282.3	4262.0	4263.2	4292.5	4268.3	4284.9	4284.9	4283.6	4292.5	4319.2
5°	4348.5	4389.2	4365.0	4349.8	4356.1	4325.6	4319.2	4314.1	4310.3	4320.5	4365.0
7.5°	4501.2	4548.2	4521.5	4507.5	4499.9	4429.9	4417.2	4382.8	4379.0	4387.9	4428.6
10°	4703.4	4767.1	4735.2	4695.8	4669.1	4587.7	4522.8	4492.3	4483.3	4478.3	4520.2
12.5°	4994.8	5050.8	5013.9	4940.1	4904.5	4773.4	4695.8	4609.3	4608.0	4590.2	4622.0
15°	5270.9	5329.4	5282.3	5209.8	5162.7	4985.9	4871.4	4764.5	4751.8	4731.4	4741.6
17.5°	5538.0	5609.3	5576.2	5510.0	5452.8	5255.6	5105.5	4968.1	4954.1	4922.3	4875.2
20°	5870.1	5935.0	5926.1	5866.3	5802.7	5578.7	5414.6	5237.8	5222.5	5165.3	5059.7
22.5°	6202.1	6282.3	6232.7	6222.5	6186.9	5964.2	5735.2	5555.8	5540.6	5465.5	5272.1
25°	6515.1	6586.3	6604.2	6587.6	6591.4	6371.3	6143.6	5918.4	5903.2	5801.4	5521.5
27.5°	6885.3	6952.7	6957.8	6961.7	7006.2	6823.0	6555.8	6324.3	6314.1	6199.6	5844.6
30°	7169.0	7281.0	7303.9	7325.5	7348.4	7250.5	7007.5	6791.2	6770.8	6646.1	6208.5
32.5°	7428.6	7512.5	7594.0	7638.5	7741.5	7653.7	7454.0	7320.4	7321.7	7263.2	6788.6
35°	7629.6	7722.4	7825.5	7988.3	8138.5	8101.6	8039.2	8046.9	8048.1	8073.6	7571.1
37.5°	7821.7	7905.6	8035.4	8230.1	8494.7	8543.0	8585.0	8744.1	8800.0	8919.6	8293.7
40°	7937.5	8026.5	8194.4	8464.2	8807.7	8982.0	9109.2	9517.6	9614.3	9615.5	8852.2
42.5°	7768.2	7866.2	8166.5	8646.1	9090.1	9415.8	9750.4	10265.6	10335.6	10179.1	9329.3
45°	7616.9	7707.2	8030.3	8674.1	9311.5	9878.9	10344.5	10941.2	10992.1	10676.6	9769.5
47.5°	7470.5	7541.8	7915.8	8615.6	9537.9	10343.2	10850.9	11551.9	11588.8	11221.1	10199.5
50°	7268.3	7353.5	7750.4	8546.9	9674.1	10741.5	11347.0	12154.9	12149.8	11710.9	10588.8
52.5°	7046.9	7130.9	7557.1	8420.9	9763.1	11050.6	11911.9	12745.2	12749.0	12273.2	10974.3
55°	6768.3	6871.3	7320.4	8250.4	9784.7	11293.6	12401.7	13350.8	13413.1	12847.0	11345.8
57.5°	6434.9	6538.0	7029.1	8001.1	9656.2	11497.2	12924.6	14124.3	14157.4	13433.5	11623.1
60°	6046.9	6171.6	6641.1	7667.7	9410.7	11733.8	13558.2	14882.6	14894.0	13957.7	11854.7
62.5°	5597.8	5686.9	6180.5	7184.3	9018.9	11827.9	14082.3	15578.5	15581.0	14353.3	11959.0
65°	5111.8	5146.2	5559.7	6526.6	8447.6	11674.0	14283.3	16002.1	15990.7	14700.6	11906.8
67.5°	4533.0	4516.4	4957.9	5713.6	7725.0	11161.3	14185.4	16219.7	16254.0	14967.8	11738.9
70°	3685.7	3709.8	4061.0	4803.9	6558.4	10338.2	13915.7	16308.7	16299.8	14834.2	11198.2
72.5°	2797.6	2840.9	3095.3	3652.6	5090.2	8694.4	12760.5	15324.0	15341.8	13892.8	10224.9
75°	1730.2	1854.9	2069.9	2409.6	3189.5	6228.8	10861.0	13423.3	13513.6	12258.0	8419.6
77.5°	758.3	787.5	895.7	1161.5	1667.9	3127.1	8029.1	10719.8	10987.0	9913.2	6073.6
80°	469.5	469.5	500.0	582.7	744.3	1162.8	3217.5	6400.6	6129.6	5670.3	2679.3
82.5°	390.6	390.6	405.8	419.8	381.7	492.4	1076.3	1793.8	1922.3	1555.9	823.1
85°	212.5	217.6	218.8	222.6	218.8	265.9	423.7	530.5	536.9	486.0	292.6
87.5°	77.6	82.7	80.2	75.1	67.4	63.6	81.4	82.7	85.2	78.9	43.3
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°	4307.8	4307.8	4307.8	4307.8	4307.8	4307.8	4307.8	4307.8	4307.8	4307.8	4307.8
2.5°	4337.0	4354.9	4401.9	4405.7	4423.6	4429.9	4445.2	4466.8	4505.0	4485.9	4464.3
5°	4386.7	4409.6	4484.6	4522.8	4572.4	4601.7	4650.0	4674.2	4732.7	4713.6	4711.1
7.5°	4461.7	4510.1	4577.5	4614.4	4679.3	4698.4	4734.0	4734.0	4782.3	4758.1	4751.8
10°	4563.5	4595.3	4666.5	4669.1	4706.0	4706.0	4748.0	4721.3	4768.3	4740.3	4739.1
12.5°	4644.9	4662.7	4689.4	4667.8	4686.9	4665.3	4686.9	4655.1	4684.4	4648.7	4641.1
15°	4736.5	4712.3	4685.6	4634.7	4618.2	4583.9	4566.0	4533.0	4535.5	4494.8	4488.4
17.5°	4839.6	4777.2	4699.6	4588.9	4527.9	4440.1	4403.2	4356.1	4329.4	4292.5	4309.0
20°	4964.2	4871.4	4709.8	4538.1	4408.3	4274.7	4188.2	4111.9	4105.5	4072.4	4054.6
22.5°	5125.8	4977.0	4754.3	4465.5	4256.9	4066.1	3937.6	3810.3	3797.6	3730.2	3704.7
25°	5325.6	5116.9	4777.2	4409.6	4080.0	3818.0	3615.7	3438.8	3353.6	3282.4	3265.8
27.5°	5594.0	5323.0	4823.0	4309.0	3871.4	3510.1	3220.0	2985.9	2884.1	2848.5	2811.6
30°	5908.2	5574.9	4908.3	4225.1	3624.6	3117.0	2763.3	2484.7	2374.0	2318.0	2300.2
32.5°	6371.3	5893.0	4987.1	4086.4	3325.6	2684.4	2223.9	1916.0	1848.6	1838.4	1862.5
35°	7045.6	6490.9	5101.7	3957.9	2974.5	2203.5	1694.6	1493.6	1479.6	1482.2	1482.2
37.5°	7747.9	7060.9	5441.3	3768.4	2544.5	1659.0	1290.0	1180.6	1185.7	1185.7	1184.4
40°	8205.9	7518.9	5688.1	3499.9	2010.1	1189.5	956.7	874.0	909.6	958.0	983.4
42.5°	8711.0	7934.9	5858.6	3190.8	1398.2	840.9	695.9	725.2	829.5	903.3	913.5
45°	9141.0	8288.6	5877.7	2709.9	900.7	638.7	634.8	718.8	839.7	919.8	926.2
47.5°	9509.9	8610.5	5758.1	2160.2	656.5	596.7	634.8	740.4	849.9	899.5	904.6
50°	9867.4	8866.2	5477.0	1660.3	597.9	581.4	642.5	744.3	813.0	847.3	842.2
52.5°	10185.5	9099.0	5069.8	1295.1	575.0	571.2	648.8	740.4	783.7	781.2	777.3
55°	10427.2	9167.7	4751.8	1010.2	556.0	564.9	652.7	744.3	776.1	753.2	748.1
57.5°	10551.9	9082.5	4484.6	802.8	535.6	558.5	662.8	743.0	799.0	842.2	839.7
60°	10549.3	8985.8	4155.1	692.1	515.3	553.4	679.4	806.6	1008.9	1049.6	1050.9
62.5°	10508.6	8820.4	3703.5	625.9	492.4	556.0	690.8	916.0	1148.8	1115.7	1089.0
65°	10373.8	8510.0	3097.9	554.7	463.1	558.5	685.7	991.1	1053.4	935.1	918.6
67.5°	9998.5	7909.5	2432.5	496.2	436.4	544.5	694.6	921.1	968.2	893.1	868.9
70°	9236.4	7063.4	1648.8	427.5	405.8	524.2	674.3	905.8	955.4	879.1	843.5
72.5°	8029.1	5669.1	964.4	367.7	361.3	482.2	664.1	916.0	970.7	885.5	839.7
75°	6249.2	3974.5	557.2	297.7	301.5	445.3	609.4	863.8	961.8	895.7	835.9
77.5°	4034.2	1930.0	393.1	237.9	235.4	351.1	494.9	755.7	926.2	904.6	854.9
80°	1444.0	704.8	276.1	176.8	171.8	237.9	380.4	608.1	783.7	811.7	811.7
82.5°	519.1	353.7	176.8	108.1	106.9	151.4	283.7	461.8	568.7	641.2	659.0
85°	217.6	153.9	86.5	54.7	44.5	58.5	146.3	286.3	385.5	414.7	451.6
87.5°	31.8	28.0	22.9	17.8	15.3	15.3	19.1	82.7	137.4	197.2	244.3
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)