

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: P510335

Luminaire Tested: **VERD-M-CA4-250-750-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510335
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-CA4-250-750-U-T3
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 1130mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35275 lumens
Efficiency: N/A
Efficacy: 140.1 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

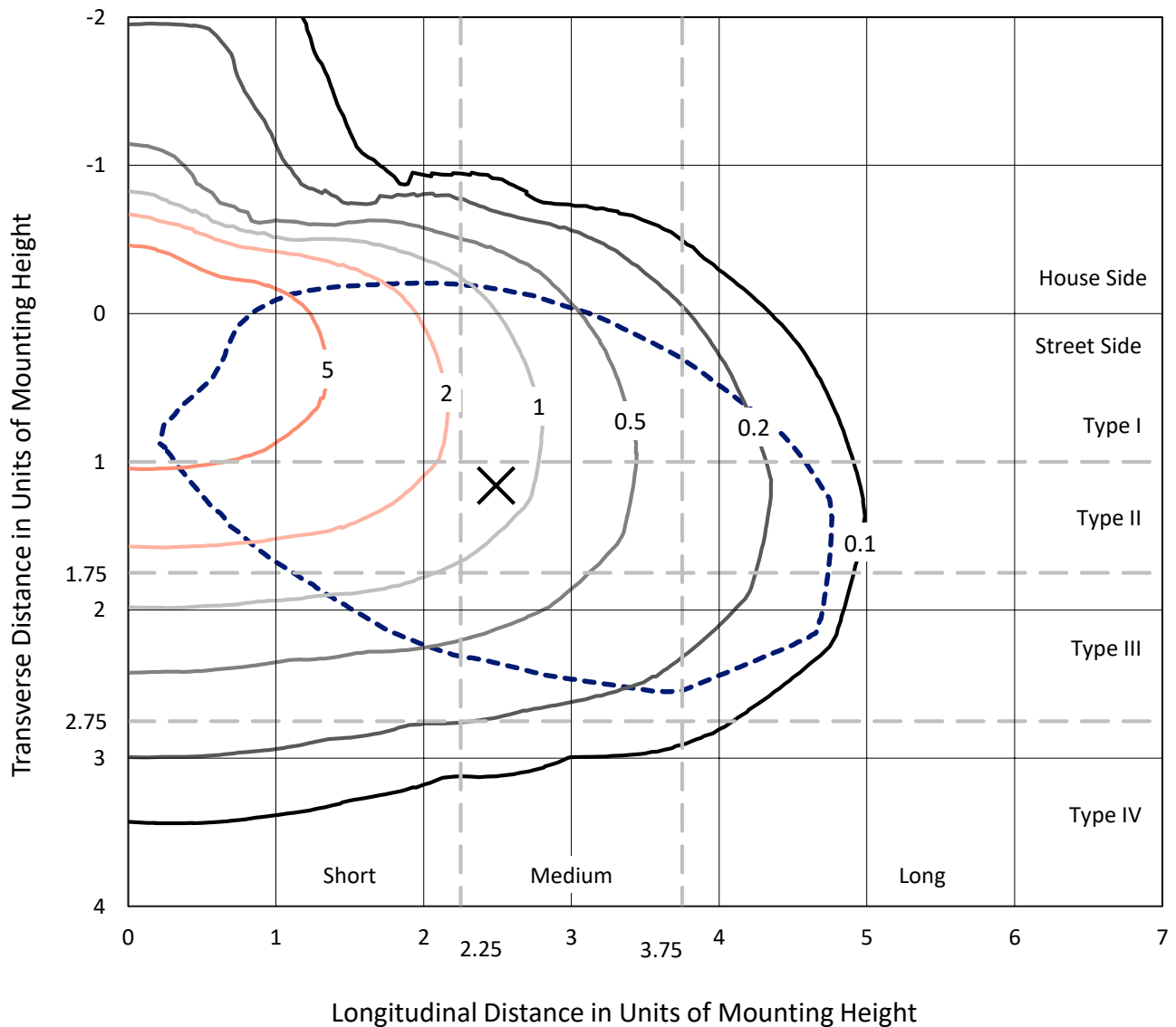
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

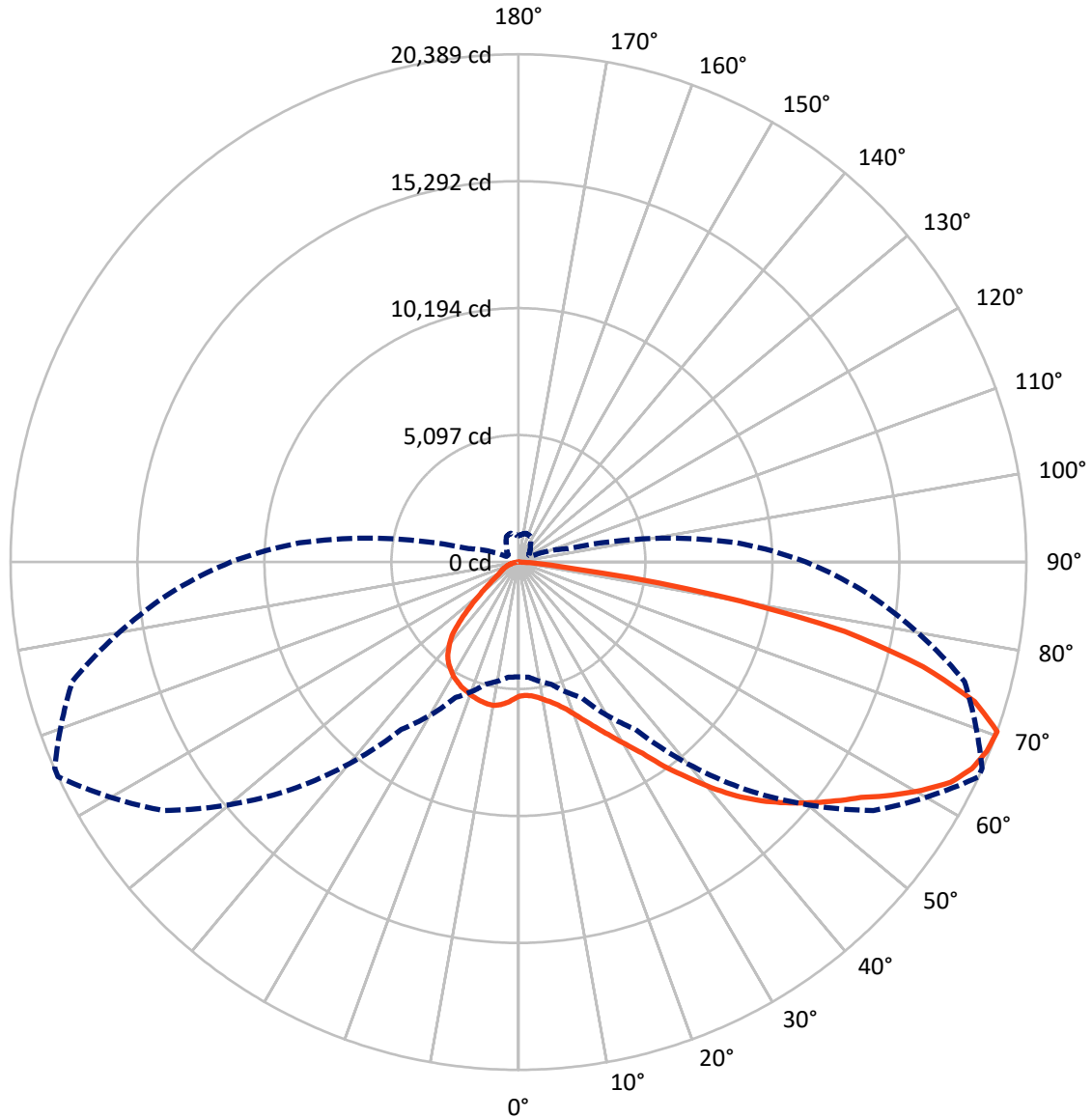
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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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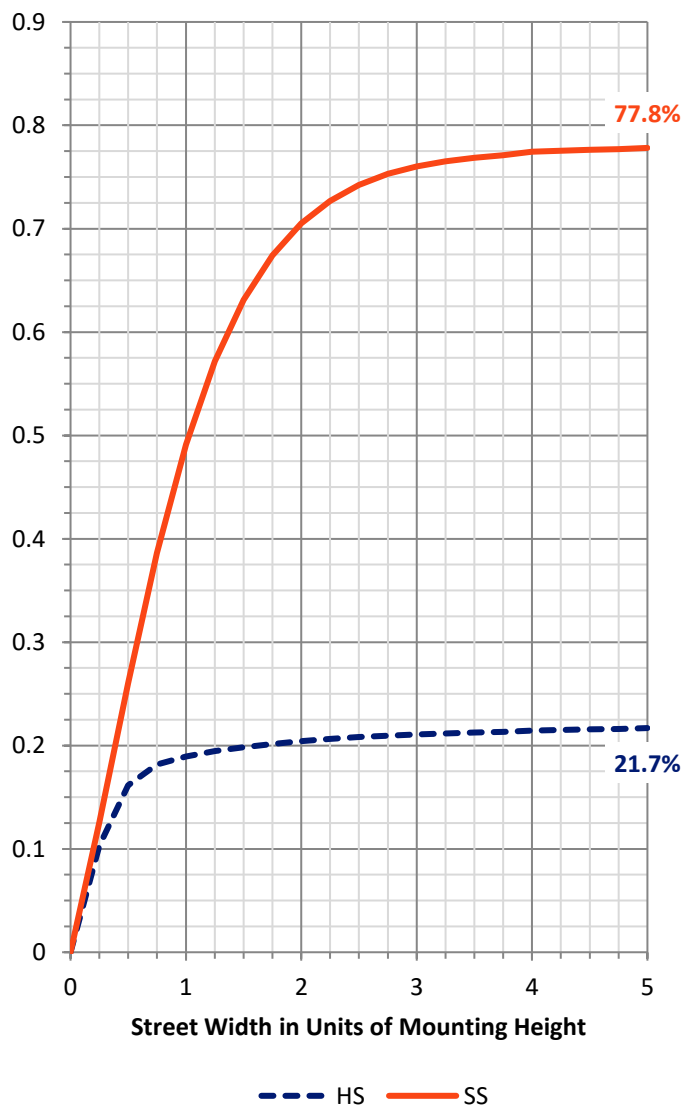
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7781.3	0.0	7781.3
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	27493.7	0.0	27493.7
	% Fixture	77.9	0.0	77.9
Total	Lumens	35275.0	0.0	35275.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.3	1.5
10°-20°	1707.5	4.8
20°-30°	2962.2	8.4
30°-40°	4306.9	12.2
40°-50°	5754.1	16.3
50°-60°	7009.0	19.9
60°-70°	7555.9	21.4
70°-80°	4898.8	13.9
80°-90°	540.3	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°	35275.0	100.0
0°-180°	35275.0	100.0

Coefficient of Utilization



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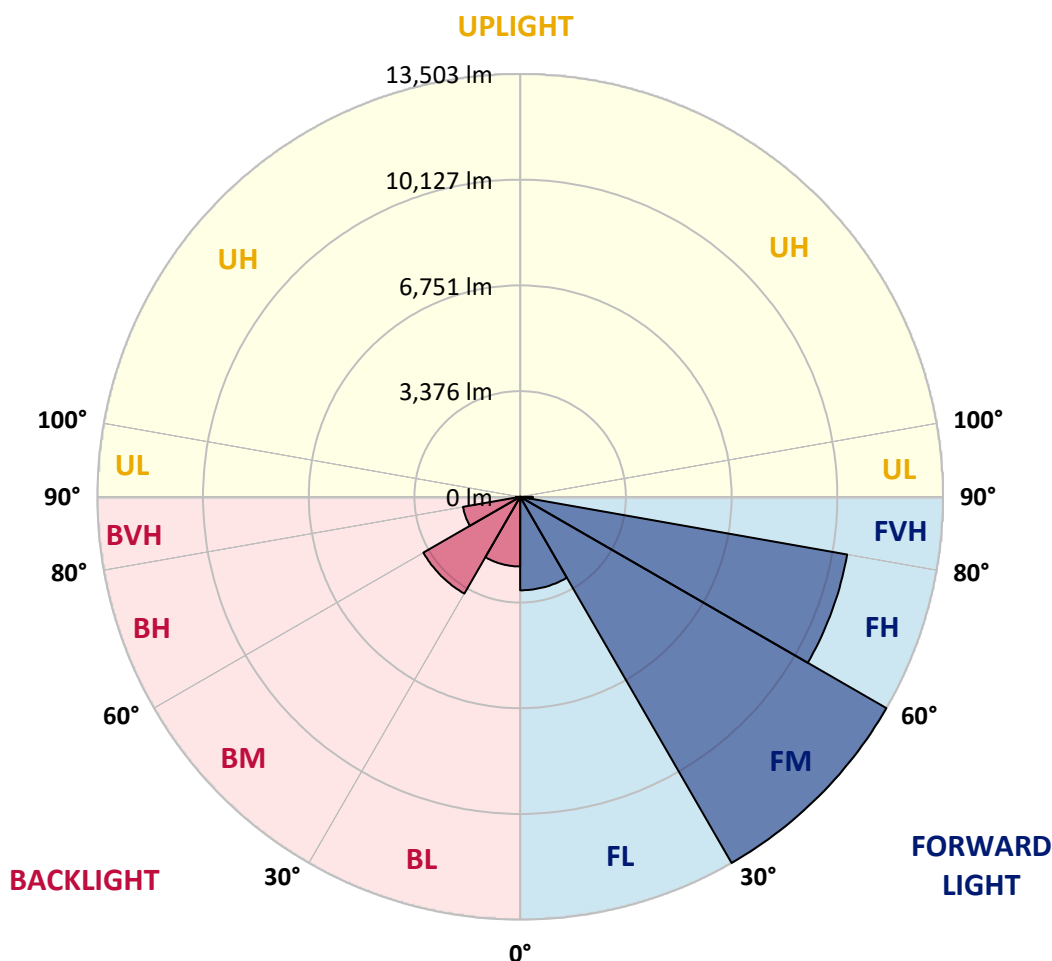
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2985.3	8.5			
FM (30°-60°)	13502.6	38.3			
FH (60°-80°)	10602.8	30.1			G4/12000
FVH (80°-90°)	403.0	1.1			G3/500
BL (0°-30°)	2224.7	6.3	B3/2500		
BM (30°-60°)	3567.5	10.1	B3/5000		
BH (60°-80°)	1851.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	137.3	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°	5385.5	5385.5	5385.5	5385.5	5385.5	5385.5	5385.5	5385.5	5385.5	5385.5	5385.5
2.5°	5306.0	5353.7	5328.2	5329.8	5366.4	5336.2	5356.9	5356.9	5355.3	5366.4	5399.8
5°	5436.4	5487.3	5457.1	5438.0	5445.9	5407.8	5399.8	5393.4	5388.7	5401.4	5457.1
7.5°	5627.2	5686.1	5652.7	5635.2	5625.7	5538.2	5522.3	5479.3	5474.6	5485.7	5536.6
10°	5880.1	5959.7	5919.9	5870.6	5837.2	5735.4	5654.3	5616.1	5605.0	5598.6	5651.1
12.5°	6244.4	6314.3	6268.2	6176.0	6131.4	5967.6	5870.6	5762.4	5760.8	5738.6	5778.3
15°	6589.5	6662.7	6603.8	6513.2	6454.3	6233.2	6090.1	5956.5	5940.6	5915.1	5927.9
17.5°	6923.5	7012.6	6971.2	6888.5	6816.9	6570.4	6382.7	6211.0	6193.5	6153.7	6094.9
20°	7338.6	7419.8	7408.6	7333.9	7254.3	6974.4	6769.2	6548.2	6529.1	6457.5	6325.5
22.5°	7753.8	7854.0	7791.9	7779.2	7734.7	7456.3	7170.0	6945.8	6926.7	6832.9	6591.1
25°	8145.0	8234.1	8256.4	8235.7	8240.5	7965.3	7680.6	7399.1	7380.0	7252.8	6902.8
27.5°	8607.9	8692.2	8698.5	8703.3	8759.0	8529.9	8195.9	7906.5	7893.7	7750.6	7306.8
30°	8962.6	9102.5	9131.1	9158.2	9186.8	9064.3	8760.6	8490.2	8464.7	8308.9	7761.7
32.5°	9287.0	9392.0	9493.8	9549.5	9678.3	9568.5	9318.8	9151.8	9153.4	9080.3	8487.0
35°	9538.3	9654.4	9783.3	9986.8	10174.5	10128.4	10050.5	10060.0	10061.6	10093.4	9465.2
37.5°	9778.5	9883.5	10045.7	10289.0	10619.9	10680.3	10732.8	10931.6	11001.6	11151.1	10368.6
40°	9923.2	10034.6	10244.5	10581.7	11011.1	11229.0	11388.1	11898.6	12019.5	12021.1	11066.8
42.5°	9711.7	9834.2	10209.5	10809.1	11364.2	11771.4	12189.7	12833.9	12921.3	12725.7	11663.2
45°	9522.4	9635.3	10039.3	10844.1	11641.0	12350.4	12932.5	13678.4	13742.1	13347.6	12213.6
47.5°	9339.5	9428.6	9896.2	10771.0	11924.1	12930.9	13565.5	14441.9	14488.0	14028.3	12751.2
50°	9086.6	9193.2	9689.4	10685.1	12094.3	13428.7	14185.8	15195.8	15189.4	14640.7	13237.9
52.5°	8809.9	8914.8	9447.7	10527.6	12205.6	13815.2	14892.0	15933.8	15938.6	15343.7	13719.8
55°	8461.5	8590.4	9151.8	10314.5	12232.7	14119.0	15504.3	16690.9	16768.8	16061.0	14184.2
57.5°	8044.8	8173.7	8787.6	10002.8	12072.0	14373.5	16158.0	17657.9	17699.3	16794.3	14530.9
60°	7559.7	7715.6	8302.5	9586.0	11765.0	14669.3	16950.1	18605.8	18620.2	17449.5	14820.4
62.5°	6998.3	7109.6	7726.7	8981.6	11275.2	14787.0	17605.4	19475.9	19479.0	17944.2	14950.8
65°	6390.7	6433.6	6950.6	8159.3	10561.0	14594.6	17856.7	20005.5	19991.2	18378.4	14885.6
67.5°	5667.0	5646.3	6198.2	7143.0	9657.6	13953.6	17734.2	20277.5	20320.4	18712.4	14675.7
70°	4607.7	4637.9	5076.9	6005.8	8199.1	12924.5	17397.1	20388.8	20377.7	18545.4	13999.7
72.5°	3497.5	3551.6	3869.7	4566.4	6363.7	10869.6	15952.9	19157.8	19180.0	17368.4	12783.0
75°	2163.1	2319.0	2587.8	3012.4	3987.4	7787.2	13578.2	16781.5	16894.5	15324.6	10526.0
77.5°	947.9	984.5	1119.7	1452.1	2085.2	3909.5	10037.7	13401.7	13735.7	12393.3	7593.1
80°	586.9	586.9	625.1	728.5	930.5	1453.7	4022.4	8001.9	7663.1	7088.9	3349.6
82.5°	488.3	488.3	507.4	524.9	477.2	615.5	1345.6	2242.6	2403.3	1945.2	1029.1
85°	265.6	272.0	273.6	278.3	273.6	332.4	529.6	663.2	671.2	607.6	365.8
87.5°	97.0	103.4	100.2	93.8	84.3	79.5	101.8	103.4	106.6	98.6	54.1
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°	5385.5	5385.5	5385.5	5385.5	5385.5	5385.5	5385.5	5385.5	5385.5	5385.5	5385.5
2.5°	5422.1	5444.3	5503.2	5508.0	5530.2	5538.2	5557.3	5584.3	5632.0	5608.2	5581.1
5°	5484.1	5512.7	5606.6	5654.3	5716.3	5752.9	5813.3	5843.6	5916.7	5892.9	5889.7
7.5°	5577.9	5638.4	5722.7	5768.8	5849.9	5873.8	5918.3	5918.3	5978.7	5948.5	5940.6
10°	5705.2	5744.9	5834.0	5837.2	5883.3	5883.3	5935.8	5902.4	5961.3	5926.3	5924.7
12.5°	5807.0	5829.2	5862.6	5835.6	5859.5	5832.4	5859.5	5819.7	5856.3	5811.7	5802.2
15°	5921.5	5891.3	5857.9	5794.2	5773.6	5730.6	5708.4	5667.0	5670.2	5619.3	5611.3
17.5°	6050.3	5972.4	5875.4	5737.0	5660.6	5550.9	5504.8	5445.9	5412.5	5366.4	5387.1
20°	6206.2	6090.1	5888.1	5673.4	5511.1	5344.1	5236.0	5140.5	5132.6	5091.2	5069.0
22.5°	6408.2	6222.1	5943.8	5582.7	5321.9	5083.3	4922.6	4763.6	4747.7	4663.4	4631.6
25°	6657.9	6397.1	5972.4	5512.7	5100.8	4773.1	4520.2	4299.2	4192.6	4103.5	4082.9
27.5°	6993.5	6654.7	6029.6	5387.1	4839.9	4388.2	4025.6	3732.9	3605.7	3561.2	3515.0
30°	7386.4	6969.6	6136.2	5282.1	4531.4	3896.8	3454.6	3106.3	2967.9	2897.9	2875.7
32.5°	7965.3	7367.3	6234.8	5108.7	4157.6	3356.0	2780.2	2395.3	2311.0	2298.3	2328.5
35°	8808.3	8114.8	6378.0	4948.1	3718.6	2754.8	2118.6	1867.3	1849.8	1853.0	1853.0
37.5°	9686.2	8827.4	6802.6	4711.1	3181.0	2074.0	1612.8	1476.0	1482.4	1482.4	1480.8
40°	10258.8	9399.9	7111.2	4375.5	2513.0	1487.1	1196.1	1092.7	1137.2	1197.7	1229.5
42.5°	10890.3	9920.0	7324.3	3989.0	1748.0	1051.3	870.0	906.6	1037.0	1129.3	1142.0
45°	11427.9	10362.2	7348.2	3387.8	1126.1	798.4	793.7	898.6	1049.7	1149.9	1157.9
47.5°	11889.1	10764.6	7198.7	2700.7	820.7	746.0	793.7	925.7	1062.5	1124.5	1130.9
50°	12336.0	11084.3	6847.2	2075.6	747.5	726.9	803.2	930.5	1016.3	1059.3	1052.9
52.5°	12733.7	11375.4	6338.2	1619.1	718.9	714.1	811.2	925.7	979.8	976.6	971.8
55°	13035.9	11461.3	5940.6	1262.9	695.1	706.2	815.9	930.5	970.2	941.6	935.2
57.5°	13191.7	11354.7	5606.6	1003.6	669.6	698.2	828.7	928.9	998.8	1052.9	1049.7
60°	13188.6	11233.8	5194.6	865.2	644.2	691.9	849.3	1008.4	1261.3	1312.2	1313.8
62.5°	13137.7	11027.0	4630.0	782.5	615.5	695.1	863.6	1145.2	1436.2	1394.9	1361.5
65°	12969.1	10639.0	3872.9	693.5	578.9	698.2	857.3	1239.0	1316.9	1169.0	1148.4
67.5°	12499.9	9888.2	3041.1	620.3	545.5	680.7	868.4	1151.5	1210.4	1116.5	1086.3
70°	11547.1	8830.5	2061.3	534.4	507.4	655.3	843.0	1132.4	1194.5	1099.0	1054.5
72.5°	10037.7	7087.3	1205.6	459.7	451.7	602.8	830.2	1145.2	1213.6	1107.0	1049.7
75°	7812.6	4968.8	696.6	372.2	377.0	556.7	761.9	1080.0	1202.4	1119.7	1045.0
77.5°	5043.5	2412.8	491.5	297.4	294.2	439.0	618.7	944.8	1157.9	1130.9	1068.8
80°	1805.2	881.1	345.1	221.1	214.7	297.4	475.6	760.3	979.8	1014.7	1014.7
82.5°	648.9	442.2	221.1	135.2	133.6	189.3	354.7	577.4	711.0	801.6	823.9
85°	272.0	192.5	108.2	68.4	55.7	73.2	182.9	357.9	481.9	518.5	564.6
87.5°	39.8	35.0	28.6	22.3	19.1	19.1	23.9	103.4	171.8	246.5	305.4
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)