

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: P509989

Luminaire Tested: **VERD-M-CA3-180-740-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-180-740-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1120mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25515 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

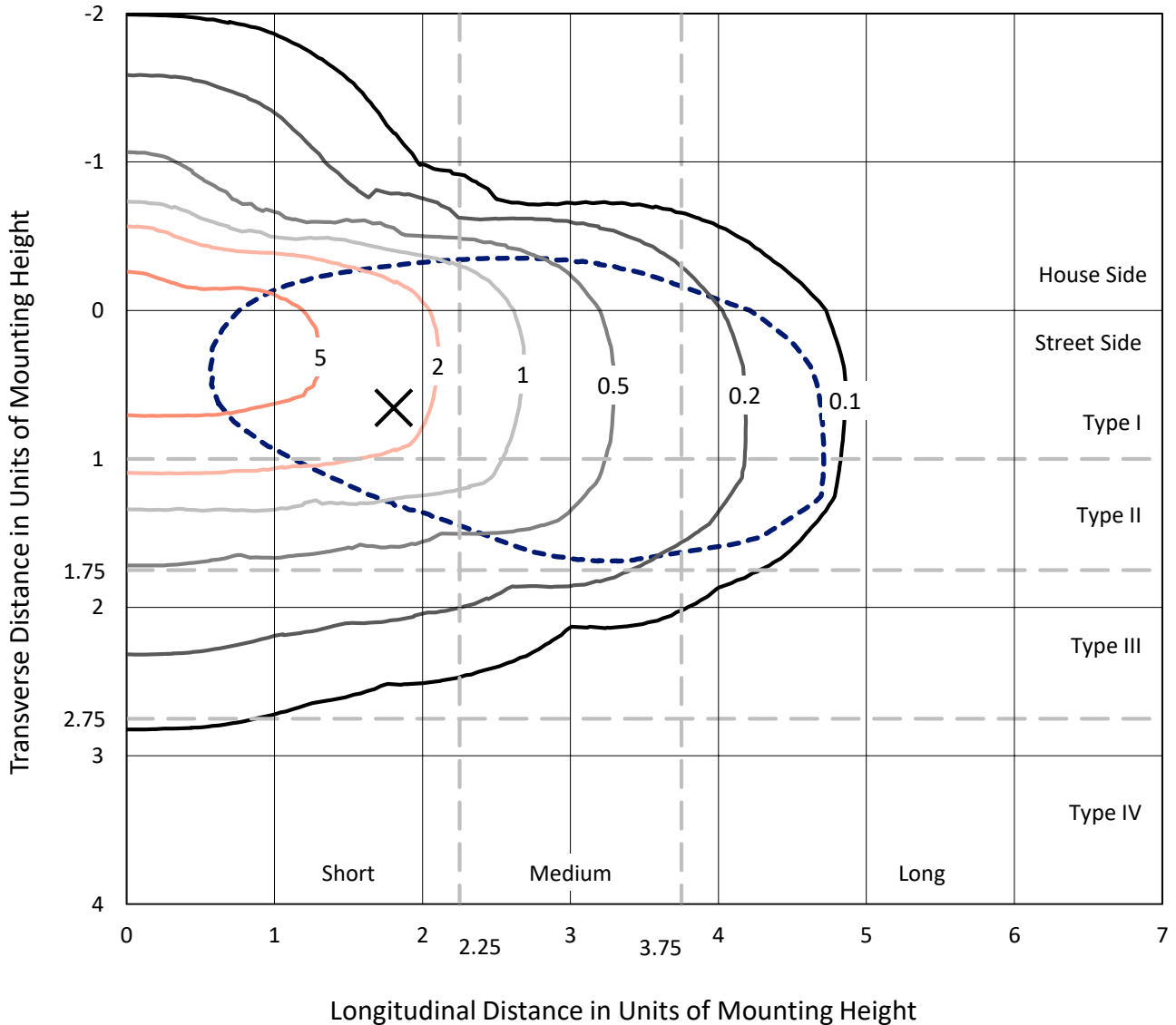
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

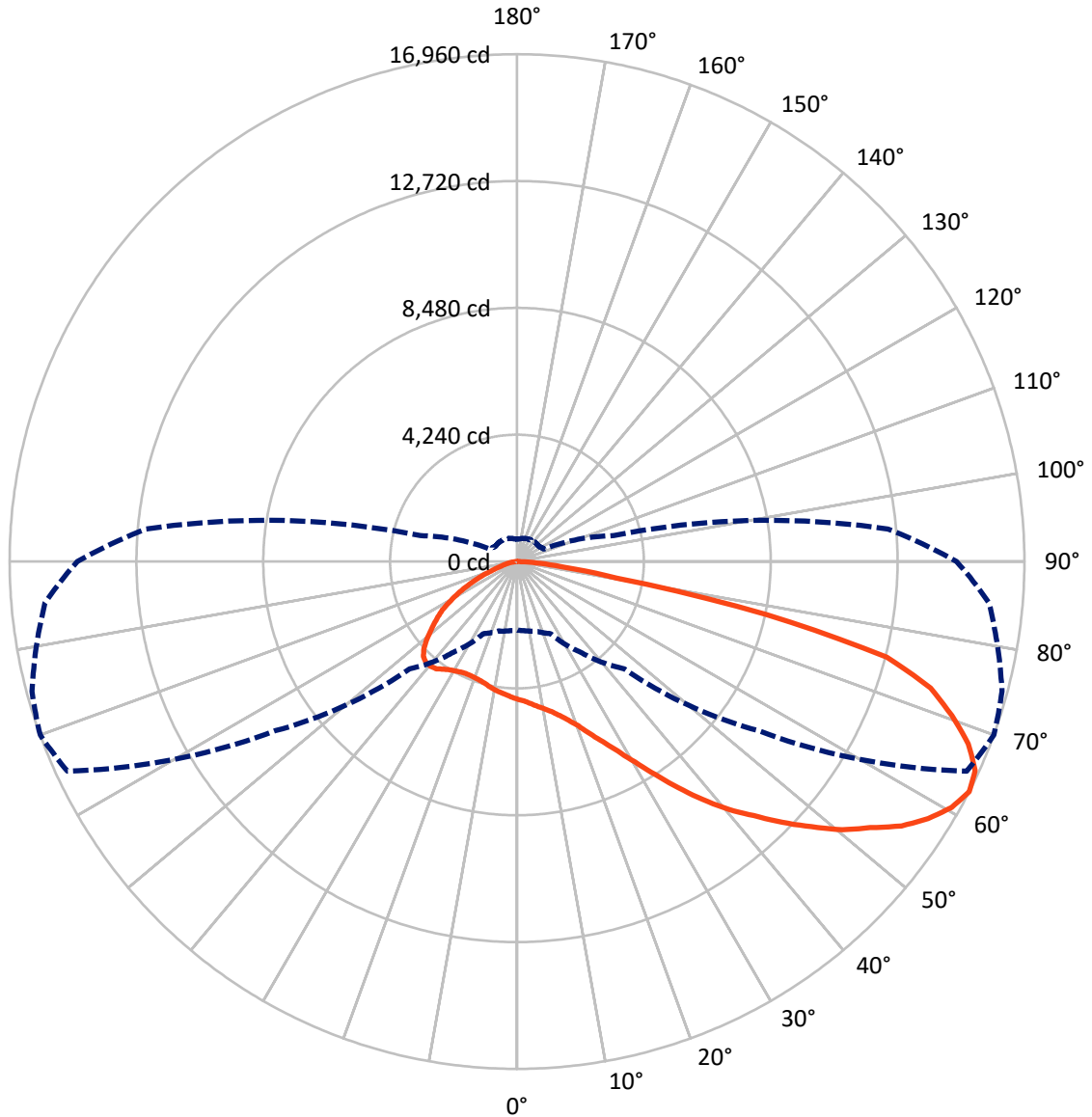
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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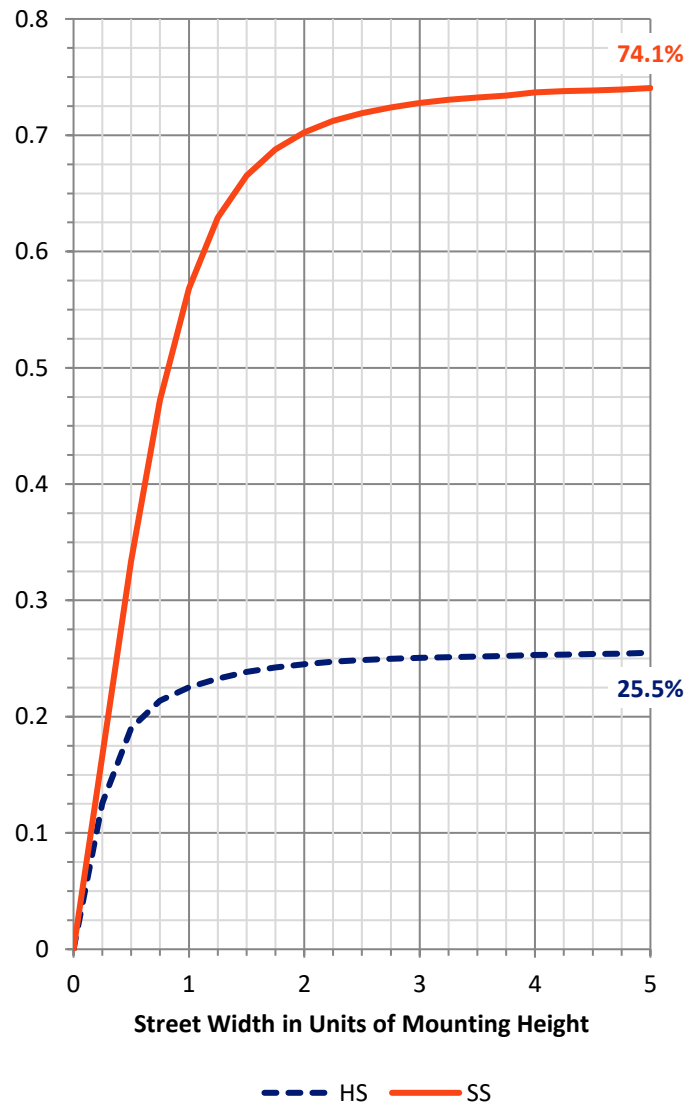
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6606.0	0.0	6606.0
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	18909.0	0.0	18909.0
	% Fixture	74.1	0.0	74.1
Total	Lumens	25515.0	0.0	25515.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.3	1.7
10°-20°	1343.2	5.3
20°-30°	2279.7	8.9
30°-40°	3298.6	12.9
40°-50°	4328.6	17.0
50°-60°	5057.8	19.8
60°-70°	5075.8	19.9
70°-80°	3234.3	12.7
80°-90°	454.5	1.8
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°	25515.0	100.0
0°-180°	25515.0	100.0



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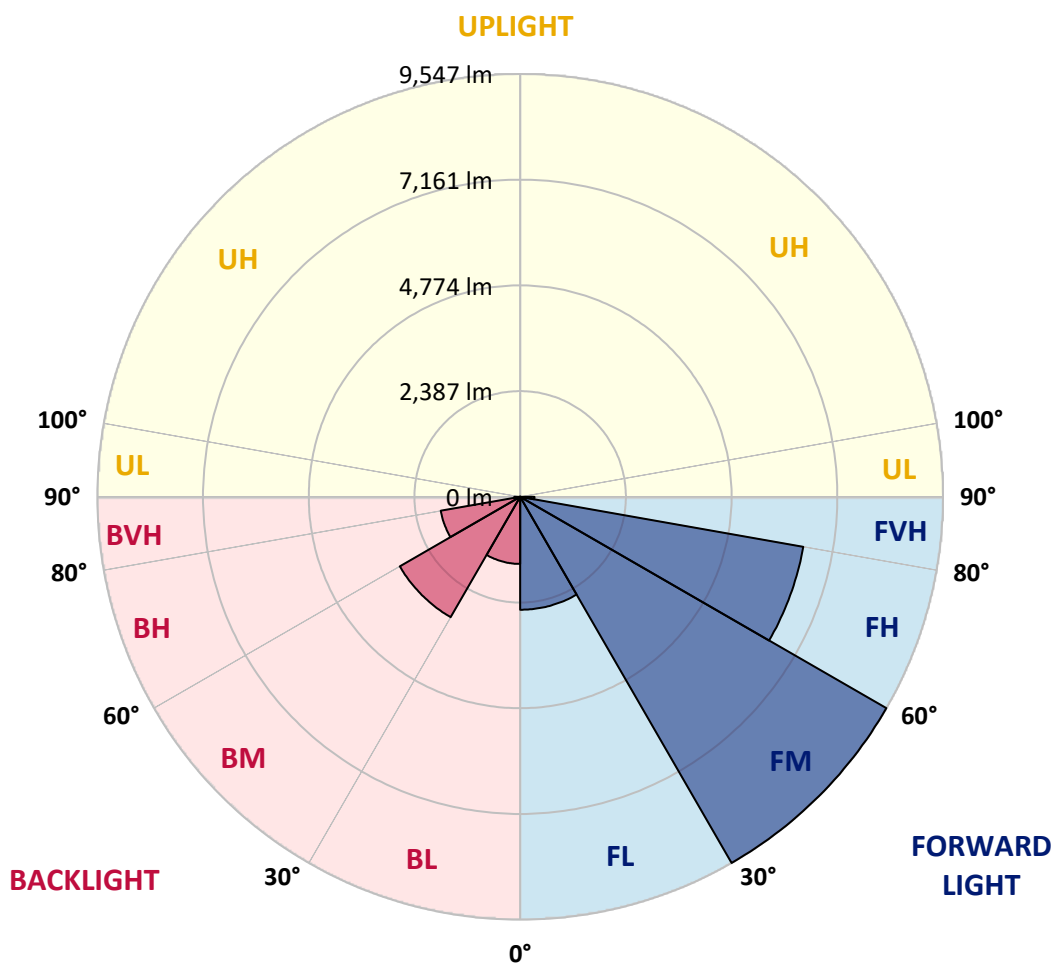
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2550.2	10.0			
FM (30°-60°)	9547.4	37.4			
FH (60°-80°)	6490.8	25.4			G3/7500
FVH (80°-90°)	320.6	1.3			G3/500
BL (0°-30°)	1515.1	5.9	B3/2500		
BM (30°-60°)	3137.6	12.3	B3/5000		
BH (60°-80°)	1819.3	7.1	B3/2500		G3/2500
BVH (80°-90°)	133.9	0.5			G2/225
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°	4605.1	4605.1	4605.1	4605.1	4605.1	4605.1	4605.1	4605.1	4605.1	4605.1	4605.1
2.5°	4781.5	4832.2	4825.3	4794.2	4816.1	4756.1	4734.2	4700.8	4666.2	4654.7	4635.1
5°	5007.5	5074.4	5061.7	5020.2	5019.0	4933.7	4885.3	4821.9	4768.8	4727.3	4666.2
7.5°	5218.5	5295.8	5284.2	5243.9	5241.6	5143.6	5043.2	4944.1	4883.0	4829.9	4718.1
10°	5442.2	5501.0	5490.6	5438.7	5428.4	5332.7	5215.0	5090.5	5000.6	4926.8	4767.7
12.5°	5648.6	5710.8	5715.4	5650.9	5634.7	5532.1	5429.5	5264.6	5148.2	5064.0	4829.9
15°	5841.1	5914.9	5901.1	5836.5	5819.2	5715.4	5615.1	5462.9	5341.9	5224.3	4931.4
17.5°	5995.6	6066.0	6048.7	6019.8	6010.6	5929.9	5846.9	5682.0	5574.8	5423.7	5088.2
20°	6101.7	6167.4	6174.3	6166.3	6219.3	6143.2	6097.1	5980.6	5863.0	5727.0	5302.7
22.5°	6143.2	6221.6	6288.5	6340.4	6449.9	6438.4	6430.3	6363.4	6248.1	6049.8	5586.3
25°	6155.9	6234.3	6338.1	6466.1	6662.1	6732.4	6783.1	6799.3	6673.6	6516.8	5939.1
27.5°	6158.2	6242.4	6348.5	6554.8	6853.5	7065.6	7186.7	7243.2	7172.8	7048.3	6418.8
30°	6109.8	6196.3	6332.3	6607.9	7003.4	7351.6	7552.2	7802.4	7772.4	7667.5	7019.5
32.5°	5970.3	6048.7	6236.6	6598.7	7152.1	7644.4	7956.9	8390.4	8491.9	8423.9	7712.5
35°	5720.1	5815.8	6059.0	6522.6	7232.8	7929.2	8433.1	9107.6	9290.9	9295.5	8562.2
37.5°	5467.6	5540.2	5826.1	6379.6	7277.8	8181.7	8885.1	9825.9	10092.3	10098.0	9269.0
40°	5198.9	5265.8	5580.5	6188.2	7231.7	8380.0	9305.9	10516.6	10898.2	10862.5	9963.1
42.5°	4850.7	4924.5	5237.0	5927.6	7116.4	8533.4	9733.7	11241.8	11608.5	11648.8	10687.2
45°	4553.2	4612.0	4885.3	5520.6	6905.4	8616.4	10134.9	12015.5	12435.2	12392.5	11459.7
47.5°	4186.6	4274.2	4565.9	5189.7	6526.0	8595.7	10518.9	12781.1	13248.0	13208.8	12129.6
50°	3229.6	3331.0	4009.0	4842.6	6041.8	8433.1	10867.1	13513.2	14093.2	13990.6	12838.7
52.5°	2933.2	2962.1	3231.9	4443.7	5564.4	8064.1	11123.0	14437.9	14781.5	14741.2	13557.0
55°	2752.2	2807.6	2930.9	3660.8	5135.5	7464.6	11300.6	15210.5	15597.9	15408.8	14207.3
57.5°	2593.1	2632.3	2778.7	3133.9	4642.0	6639.0	11248.7	15861.9	16207.8	15943.8	14842.6
60°	2423.6	2449.0	2595.4	2860.6	4109.3	5727.0	10721.8	16534.1	16687.5	16445.3	15379.9
62.5°	2292.2	2316.4	2404.0	2658.8	3694.2	5074.4	9859.4	16581.4	16959.6	16783.2	15836.5
65°	2123.8	2140.0	2249.5	2450.1	3309.1	4685.8	9099.5	16137.5	16828.1	16784.3	16011.8
67.5°	1938.2	1957.8	2061.6	2203.4	2816.8	4228.1	7828.9	15897.6	16272.4	16315.0	15683.2
70°	1720.3	1734.1	1841.4	1944.0	2409.8	3711.5	6223.9	14978.7	15415.7	15414.5	14668.5
72.5°	1485.1	1483.9	1590.0	1698.4	2018.9	3117.7	4872.6	13298.8	14455.2	14368.8	13225.0
75°	1224.5	1241.8	1344.4	1429.7	1679.9	2527.4	3393.3	9633.4	12761.5	12880.2	11413.6
77.5°	782.9	794.4	852.1	939.7	1174.9	1931.3	2213.8	5353.4	8520.7	10277.9	8984.2
80°	571.9	577.7	628.4	679.1	781.7	1176.1	1125.3	2326.8	3377.2	5045.6	5511.4
82.5°	389.7	390.9	431.2	442.8	448.5	530.4	533.8	1132.3	1608.4	1894.4	2434.0
85°	258.3	214.5	167.2	221.4	227.1	194.9	190.2	510.8	797.9	957.0	901.7
87.5°	57.7	56.5	65.7	66.9	64.6	55.3	46.1	78.4	119.9	118.8	152.2
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°	4605.1	4605.1	4605.1	4605.1	4605.1	4605.1	4605.1	4605.1	4605.1	4605.1	4605.1
2.5°	4616.6	4610.9	4578.6	4510.6	4464.4	4417.2	4390.6	4374.5	4380.3	4353.7	4342.2
5°	4628.2	4599.3	4508.3	4427.5	4354.9	4273.0	4205.0	4195.8	4209.6	4185.4	4171.6
7.5°	4658.1	4597.0	4480.6	4342.2	4221.2	4143.9	4045.9	3996.3	3992.9	3968.6	3973.3
10°	4675.4	4595.9	4440.2	4273.0	4131.2	3994.0	3889.1	3833.7	3830.3	3795.7	3787.6
12.5°	4722.7	4608.6	4393.0	4188.9	4030.9	3847.6	3736.9	3686.2	3680.4	3632.0	3613.5
15°	4795.4	4637.4	4343.4	4090.9	3886.8	3715.0	3582.4	3514.4	3504.0	3447.5	3427.9
17.5°	4910.7	4719.3	4328.4	4002.1	3761.1	3573.2	3417.5	3343.7	3283.8	3252.6	3226.1
20°	5066.3	4820.7	4345.7	3919.1	3603.1	3386.4	3192.7	3095.8	3054.3	3003.6	3007.0
22.5°	5287.7	4979.8	4375.7	3854.5	3460.2	3186.9	2969.0	2860.6	2785.7	2743.0	2745.3
25°	5599.0	5219.7	4434.5	3793.4	3304.5	2969.0	2711.9	2560.8	2484.7	2457.1	2428.2
27.5°	5992.2	5506.8	4574.0	3718.4	3120.0	2722.2	2437.5	2261.0	2183.8	2142.3	2136.5
30°	6497.2	5883.8	4737.7	3663.1	2926.3	2414.4	2097.3	1957.8	1889.8	1831.0	1803.3
32.5°	7112.9	6416.5	4919.9	3607.8	2686.5	2069.6	1782.5	1675.3	1566.9	1492.0	1495.4
35°	7827.8	6996.4	5190.8	3537.4	2405.2	1748.0	1549.6	1411.3	1309.8	1260.2	1237.2
37.5°	8502.3	7591.4	5509.1	3465.9	2090.4	1539.3	1320.2	1192.2	1113.8	1075.8	1083.8
40°	9184.8	8204.8	5783.5	3290.7	1737.6	1350.2	1093.0	1020.4	989.3	959.3	962.8
42.5°	9795.9	8693.7	5984.1	3095.8	1490.8	1133.4	931.6	947.8	966.2	948.9	944.3
45°	10432.4	9265.6	6160.5	2763.8	1284.4	962.8	891.3	936.2	976.6	974.3	968.5
47.5°	11071.2	9795.9	6177.8	2323.3	1096.5	905.1	890.1	923.6	976.6	985.8	978.9
50°	11729.5	10351.7	6076.3	1804.5	1017.0	912.0	891.3	897.0	955.8	966.2	962.8
52.5°	12459.4	10952.4	5826.1	1372.1	985.8	923.6	894.7	886.7	920.1	938.5	942.0
55°	13130.4	11429.7	5356.9	1211.8	962.8	924.7	920.1	893.6	894.7	885.5	908.6
57.5°	13694.3	11885.2	4824.2	1124.2	942.0	914.3	931.6	882.0	868.2	830.2	820.9
60°	14277.7	12255.3	4074.7	1064.2	917.8	901.7	902.8	862.4	827.9	772.5	756.4
62.5°	14691.6	12451.3	3347.2	993.9	884.4	882.0	864.8	834.8	803.6	755.2	748.3
65°	14811.5	12347.5	2571.2	920.1	840.5	849.8	818.6	777.1	648.0	588.0	588.0
67.5°	14414.9	11708.8	1903.6	834.8	787.5	806.0	744.8	612.2	545.4	509.6	515.4
70°	13327.6	10676.8	1239.5	710.3	711.4	726.4	614.6	551.1	487.7	465.8	477.3
72.5°	11874.8	9146.8	817.5	566.1	599.6	574.2	561.5	507.3	450.8	425.5	433.5
75°	9785.6	7222.4	567.3	445.1	388.6	490.0	499.3	426.6	382.8	464.7	483.1
77.5°	7730.9	5020.2	468.1	311.3	287.1	362.0	400.1	395.5	633.0	743.7	735.6
80°	4597.0	2890.6	381.6	215.6	202.9	232.9	314.8	454.3	709.1	532.7	507.3
82.5°	2084.6	1314.4	202.9	113.0	132.6	154.5	235.2	565.0	464.7	341.3	321.7
85°	814.0	428.9	80.7	49.6	46.1	57.7	107.2	272.1	186.8	151.0	151.0
87.5°	104.9	77.3	23.1	17.3	15.0	18.4	34.6	151.0	87.6	73.8	71.5
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)