

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: P510214

Luminaire Tested: **VERD-M-CA4-230-727-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-230-727-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25630 lumens
Efficiency: N/A
Efficacy: 109.9 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

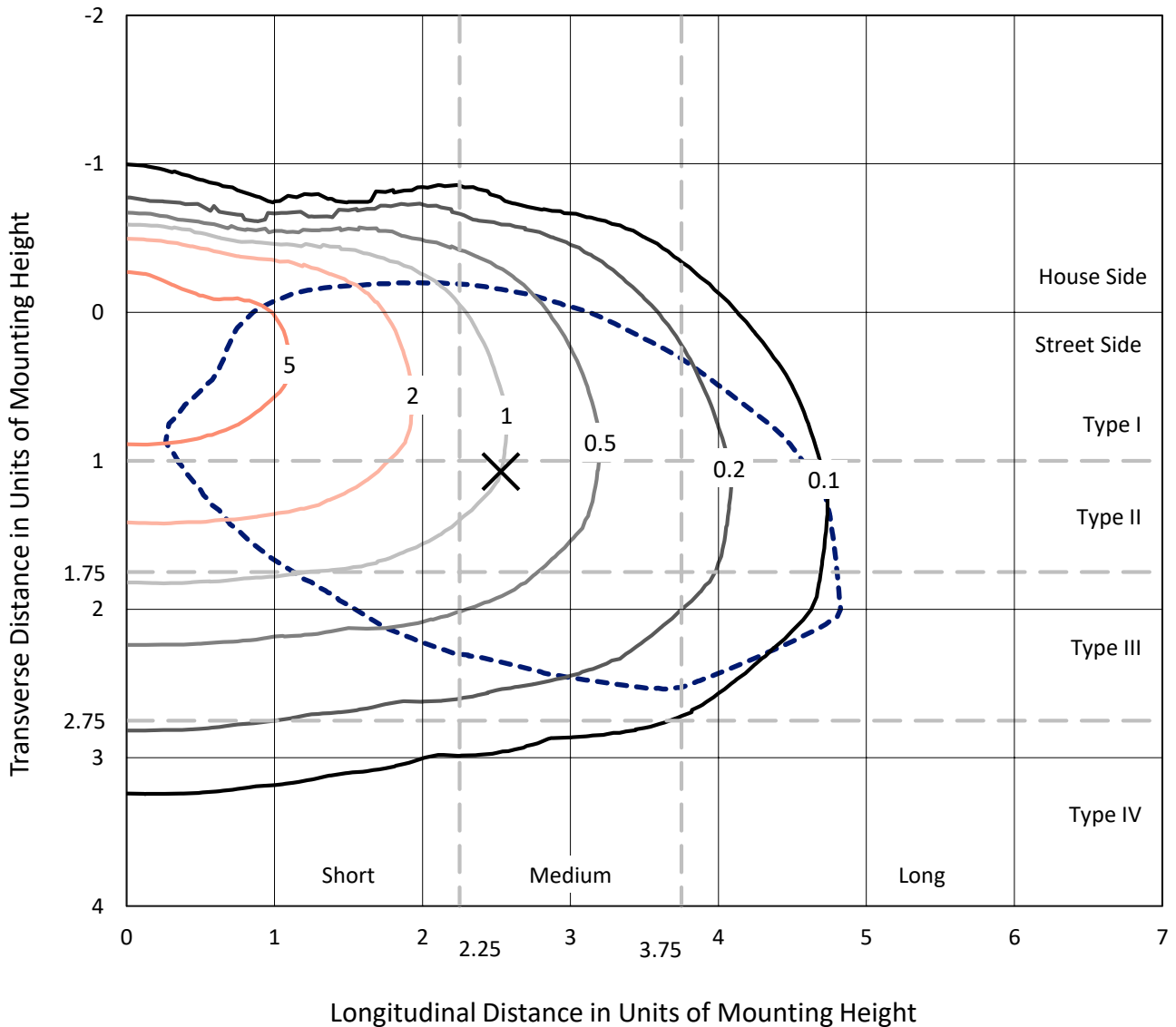
Input Watts (W): 233.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

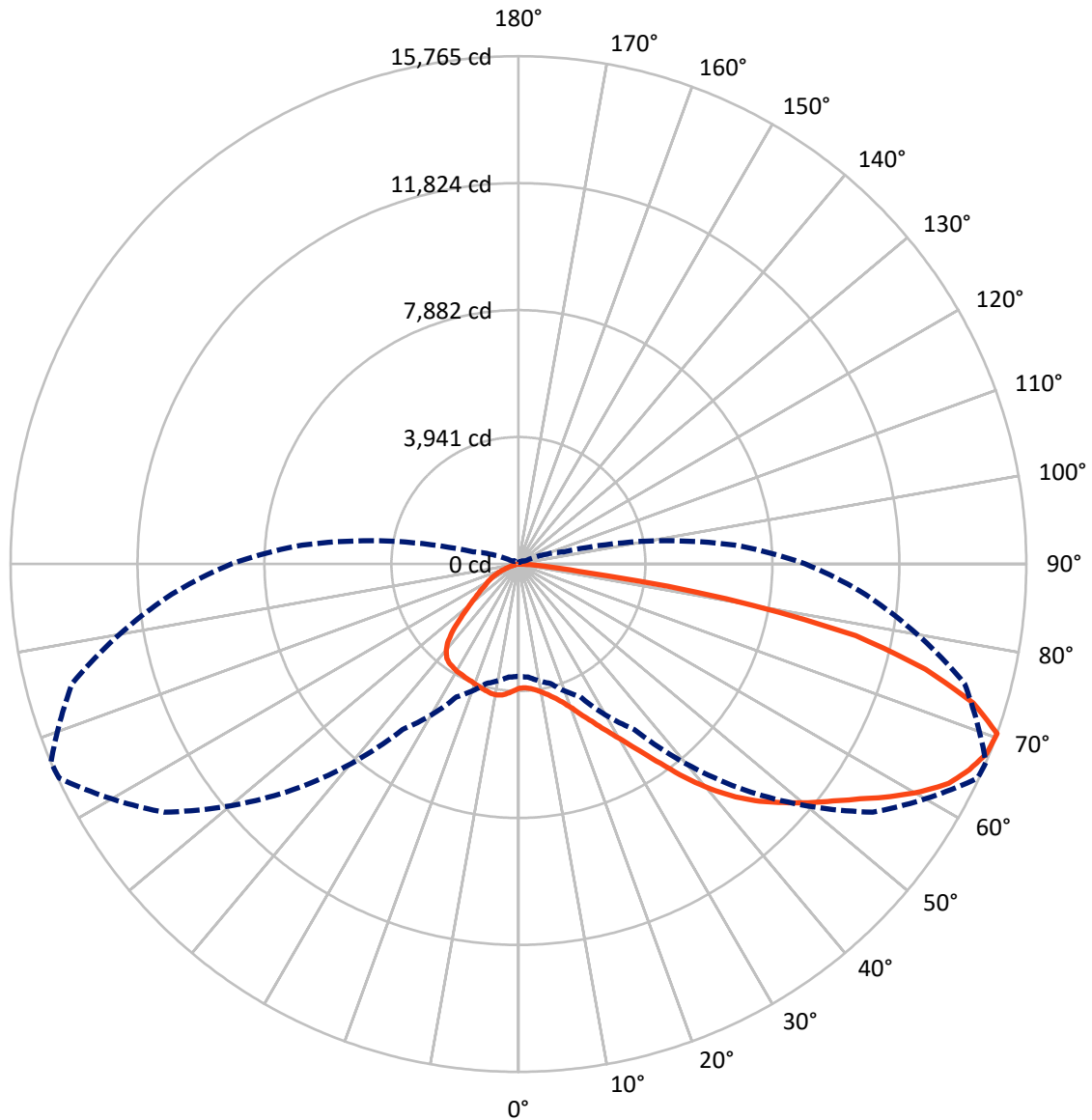
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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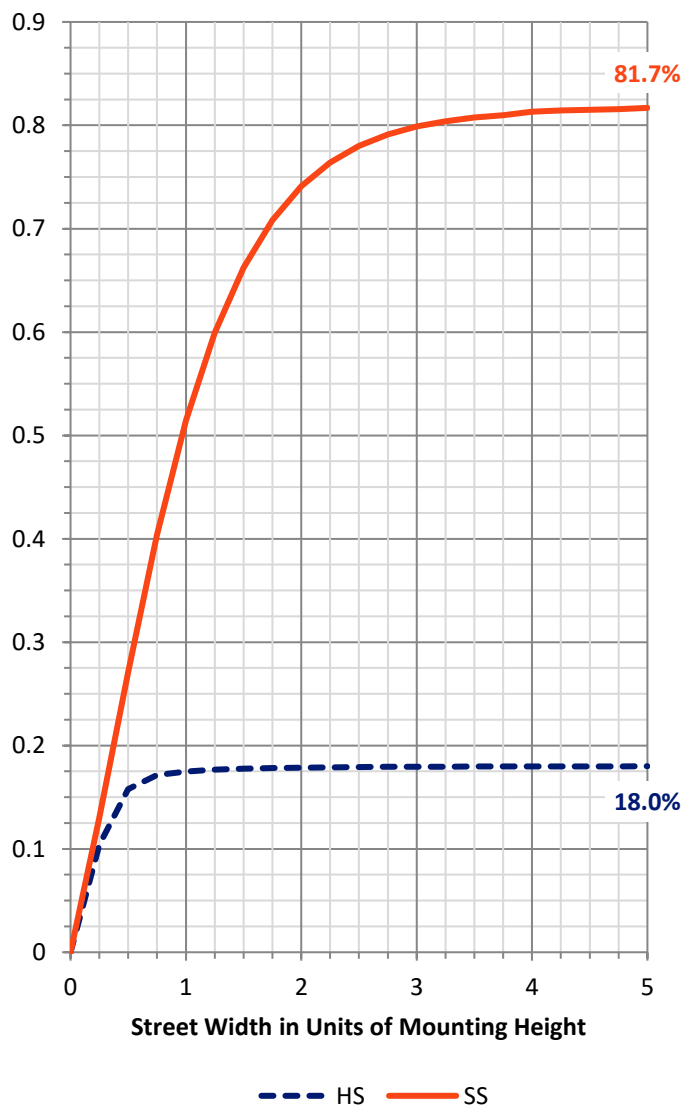
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4670.0	0.0	4670.0
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	20960.0	0.0	20960.0
	% Fixture	81.8	0.0	81.8
Total	Lumens	25630.0	0.0	25630.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.1	1.5
10°-20°	1198.3	4.7
20°-30°	2079.2	8.1
30°-40°	3088.0	12.0
40°-50°	4236.6	16.5
50°-60°	5202.7	20.3
60°-70°	5577.9	21.8
70°-80°	3540.9	13.8
80°-90°	322.2	1.3
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°	25630.0	100.0
0°-180°	25630.0	100.0

Coefficient of Utilization



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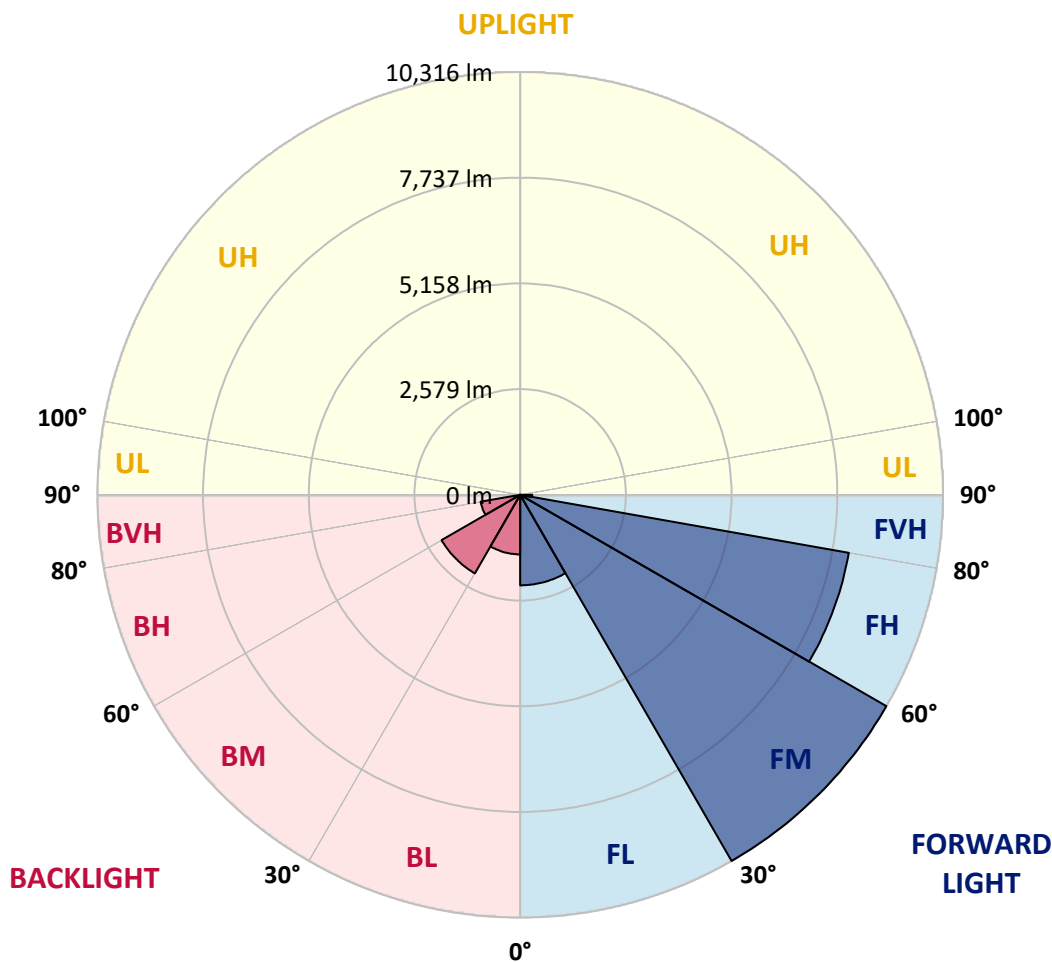
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2208.2	8.6			
FM	(30°-60°)	10315.8	40.2			
FH	(60°-80°)	8142.0	31.8			G4/12000
FVH	(80°-90°)	293.9	1.1			G3/500
BL	(0°-30°)	1453.4	5.7	B3/2500		
BM	(30°-60°)	2211.5	8.6	B2/2500		
BH	(60°-80°)	976.8	3.8	B2/1000		G2/1000
BVH	(80°-90°)	28.3	0.1			G1/100
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°	67°	75°	85°
0°	3855.3	3855.3	3855.3	3855.3	3855.3	3855.3	3855.3	3855.3	3855.3	3855.3	3855.3
2.5°	3820.6	3856.6	3835.5	3833.0	3857.8	3834.2	3850.4	3846.6	3844.2	3847.9	3873.9
5°	3921.1	3963.2	3934.7	3926.0	3939.7	3897.5	3893.8	3885.1	3882.6	3883.8	3921.1
7.5°	4061.2	4110.8	4099.6	4077.3	4069.9	4000.4	3988.0	3957.0	3947.1	3949.6	3986.8
10°	4281.9	4331.5	4309.2	4259.6	4228.6	4149.2	4104.6	4064.9	4045.1	4047.5	4087.2
12.5°	4564.6	4611.8	4574.6	4484.0	4466.7	4338.9	4269.5	4185.2	4171.5	4151.7	4193.9
15°	4831.3	4872.2	4854.8	4770.5	4723.4	4572.1	4444.4	4340.2	4327.8	4309.2	4307.9
17.5°	5126.4	5167.3	5135.1	5073.1	5011.1	4831.3	4693.6	4559.7	4527.4	4511.3	4453.0
20°	5441.4	5505.8	5499.6	5448.8	5374.4	5163.6	4968.9	4817.6	4782.9	4753.1	4630.4
22.5°	5766.3	5850.6	5832.0	5804.7	5773.7	5536.8	5309.9	5135.1	5109.0	5045.8	4852.3
25°	6125.9	6184.2	6170.5	6184.2	6163.1	5953.5	5705.5	5492.2	5457.5	5398.0	5101.6
27.5°	6474.3	6535.1	6558.6	6530.1	6543.8	6393.7	6099.8	5908.9	5875.4	5766.3	5401.7
30°	6789.3	6864.9	6898.4	6910.8	6956.7	6801.7	6584.7	6352.8	6341.6	6230.0	5797.3
32.5°	7041.0	7125.4	7207.2	7260.5	7333.7	7265.5	7049.7	6909.6	6910.8	6810.4	6391.2
35°	7223.3	7320.0	7439.1	7580.5	7734.2	7705.7	7578.0	7580.5	7600.3	7633.8	7148.9
37.5°	7425.4	7503.6	7643.7	7840.9	8075.2	8134.8	8117.4	8314.6	8411.3	8470.8	7814.8
40°	7545.7	7625.1	7799.9	8065.3	8406.3	8548.9	8708.9	9054.9	9181.4	9119.4	8384.0
42.5°	7413.0	7483.7	7787.5	8246.4	8677.9	9001.6	9288.0	9793.9	9885.7	9683.6	8863.9
45°	7240.7	7332.4	7652.4	8296.0	8918.5	9445.5	9890.7	10437.5	10505.7	10219.3	9288.0
47.5°	7099.3	7179.9	7553.2	8242.6	9140.4	9900.6	10420.2	11045.2	11062.5	10709.1	9727.0
50°	6918.3	7016.2	7405.6	8176.9	9274.4	10303.6	10905.0	11611.9	11650.3	11216.3	10099.0
52.5°	6728.5	6824.0	7227.0	8069.0	9371.1	10638.4	11408.5	12214.5	12218.3	11753.2	10495.8
55°	6448.3	6550.0	6996.4	7912.8	9400.9	10860.4	11914.4	12829.6	12868.0	12297.6	10855.4
57.5°	6151.9	6238.7	6718.6	7669.7	9290.5	11070.0	12434.0	13512.9	13618.3	12911.4	11164.2
60°	5758.8	5845.6	6352.8	7351.0	9056.1	11305.6	13029.2	14336.3	14347.4	13408.7	11388.7
62.5°	5336.0	5411.6	5877.9	6851.3	8692.8	11396.1	13540.2	14994.7	14993.5	13851.4	11500.3
65°	4833.7	4864.7	5339.7	6237.5	8128.6	11263.4	13765.8	15428.8	15386.6	14170.1	11463.1
67.5°	4238.5	4272.0	4631.6	5474.8	7310.1	10745.1	13665.4	15638.3	15680.5	14454.1	11301.9
70°	3484.6	3524.2	3838.0	4549.8	6267.2	9918.0	13429.8	15728.8	15764.8	14340.0	10804.6
72.5°	2571.9	2625.2	2817.4	3386.6	4756.8	8333.2	12338.5	14738.0	14757.9	13387.6	9769.1
75°	1597.2	1695.2	1876.2	2250.7	3086.5	5844.4	10546.7	13175.6	13051.6	11941.7	8083.9
77.5°	638.6	654.7	745.3	1054.0	1505.4	3043.1	7644.9	10473.5	10710.3	9554.6	5782.4
80°	372.0	369.5	390.6	491.1	646.1	1040.4	2973.6	5875.4	6548.7	5247.9	2601.6
82.5°	300.1	288.9	288.9	315.0	310.0	437.7	974.7	1716.2	1882.4	1670.4	740.3
85°	157.5	153.8	125.2	155.0	155.0	218.2	374.5	486.1	513.4	447.7	277.8
87.5°	39.7	39.7	39.7	48.4	38.4	45.9	63.2	76.9	79.4	64.5	40.9
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°	3855.3	3855.3	3855.3	3855.3	3855.3	3855.3	3855.3	3855.3	3855.3	3855.3	3855.3
2.5°	3883.8	3895.0	3938.4	3932.2	3939.7	3939.7	3952.1	3965.7	4006.6	3983.1	3973.1
5°	3928.5	3950.8	4005.4	4025.2	4055.0	4058.7	4083.5	4092.2	4136.8	4112.0	4112.0
7.5°	4014.1	4040.1	4090.9	4098.4	4112.0	4088.5	4094.7	4067.4	4097.1	4067.4	4068.6
10°	4110.8	4128.1	4162.9	4113.3	4092.2	4036.4	4024.0	3957.0	3980.6	3942.1	3932.2
12.5°	4203.8	4197.6	4171.5	4083.5	4025.2	3933.5	3895.0	3804.5	3799.5	3748.7	3738.8
15°	4291.8	4248.4	4164.1	4027.7	3928.5	3800.8	3709.0	3609.8	3575.1	3516.8	3511.8
17.5°	4399.7	4325.3	4175.3	3974.4	3811.9	3625.9	3495.7	3384.1	3312.2	3258.9	3257.6
20°	4531.2	4417.1	4180.2	3913.6	3691.6	3453.6	3271.3	3129.9	3027.0	2960.0	2958.8
22.5°	4696.1	4541.1	4226.1	3844.2	3537.9	3245.2	3018.3	2774.0	2632.6	2496.2	2471.4
25°	4889.5	4666.3	4265.8	3808.2	3386.6	3028.2	2690.9	2333.8	2114.3	2005.2	1964.2
27.5°	5161.1	4874.7	4324.1	3740.0	3244.0	2760.4	2269.3	1879.9	1615.8	1522.8	1522.8
30°	5474.8	5137.5	4433.2	3699.1	3045.6	2384.6	1806.8	1388.9	1143.3	1003.2	999.5
32.5°	5953.5	5451.3	4532.4	3611.0	2805.0	1975.4	1307.0	895.3	698.2	611.3	606.4
35°	6641.7	6049.0	4692.4	3523.0	2456.5	1470.7	829.6	513.4	398.1	348.5	346.0
37.5°	7303.9	6618.2	5037.1	3348.1	1961.8	923.8	460.1	296.4	243.1	236.9	234.4
40°	7770.2	7109.2	5280.2	3081.5	1393.8	489.8	266.6	214.5	210.8	208.3	207.1
42.5°	8278.6	7473.8	5452.5	2741.8	827.1	284.0	217.0	193.4	187.2	184.8	184.8
45°	8691.5	7824.7	5484.8	2255.7	416.7	234.4	198.4	176.1	168.6	173.6	174.8
47.5°	9072.2	8155.8	5375.6	1696.4	281.5	218.2	186.0	163.7	158.7	171.1	171.1
50°	9397.1	8436.1	5125.1	1266.1	264.1	205.8	173.6	151.3	150.0	161.2	162.4
52.5°	9720.8	8661.8	4730.8	956.1	250.5	192.2	161.2	140.1	136.4	143.8	145.1
55°	9977.5	8742.4	4438.2	711.8	240.6	179.8	150.0	129.0	120.3	119.0	121.5
57.5°	10118.8	8671.7	4151.7	523.3	229.4	168.6	138.9	114.1	100.4	100.4	100.4
60°	10121.3	8586.1	3845.4	414.2	217.0	156.2	126.5	98.0	84.3	81.8	81.8
62.5°	10094.0	8433.6	3400.2	359.6	203.4	146.3	110.4	83.1	73.2	69.4	69.4
65°	9973.8	8145.9	2860.8	307.5	187.2	138.9	94.2	74.4	65.7	60.8	60.8
67.5°	9599.3	7606.5	2202.3	267.9	172.4	122.8	85.6	67.0	58.3	53.3	52.1
70°	8912.3	6734.7	1453.3	228.2	157.5	109.1	78.1	60.8	52.1	47.1	45.9
72.5°	7760.3	5481.0	730.4	193.4	135.2	100.4	70.7	53.3	44.6	39.7	39.7
75°	6081.2	3804.5	398.1	153.8	106.6	88.0	62.0	44.6	38.4	34.7	34.7
77.5°	3728.8	1886.1	271.6	119.0	80.6	71.9	49.6	37.2	33.5	32.2	32.2
80°	1360.3	617.5	182.3	84.3	60.8	55.8	39.7	32.2	31.0	31.0	31.0
82.5°	491.1	313.7	122.8	57.0	38.4	42.2	32.2	27.3	26.0	27.3	28.5
85°	202.1	137.6	44.6	32.2	21.1	22.3	19.8	18.6	19.8	21.1	21.1
87.5°	31.0	27.3	16.1	16.1	12.4	11.2	8.7	9.9	12.4	14.9	14.9
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)