

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: P510022

Luminaire Tested: **VERD-M-CA4-190-727-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510022
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-CA4-190-727-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 870mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21866 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

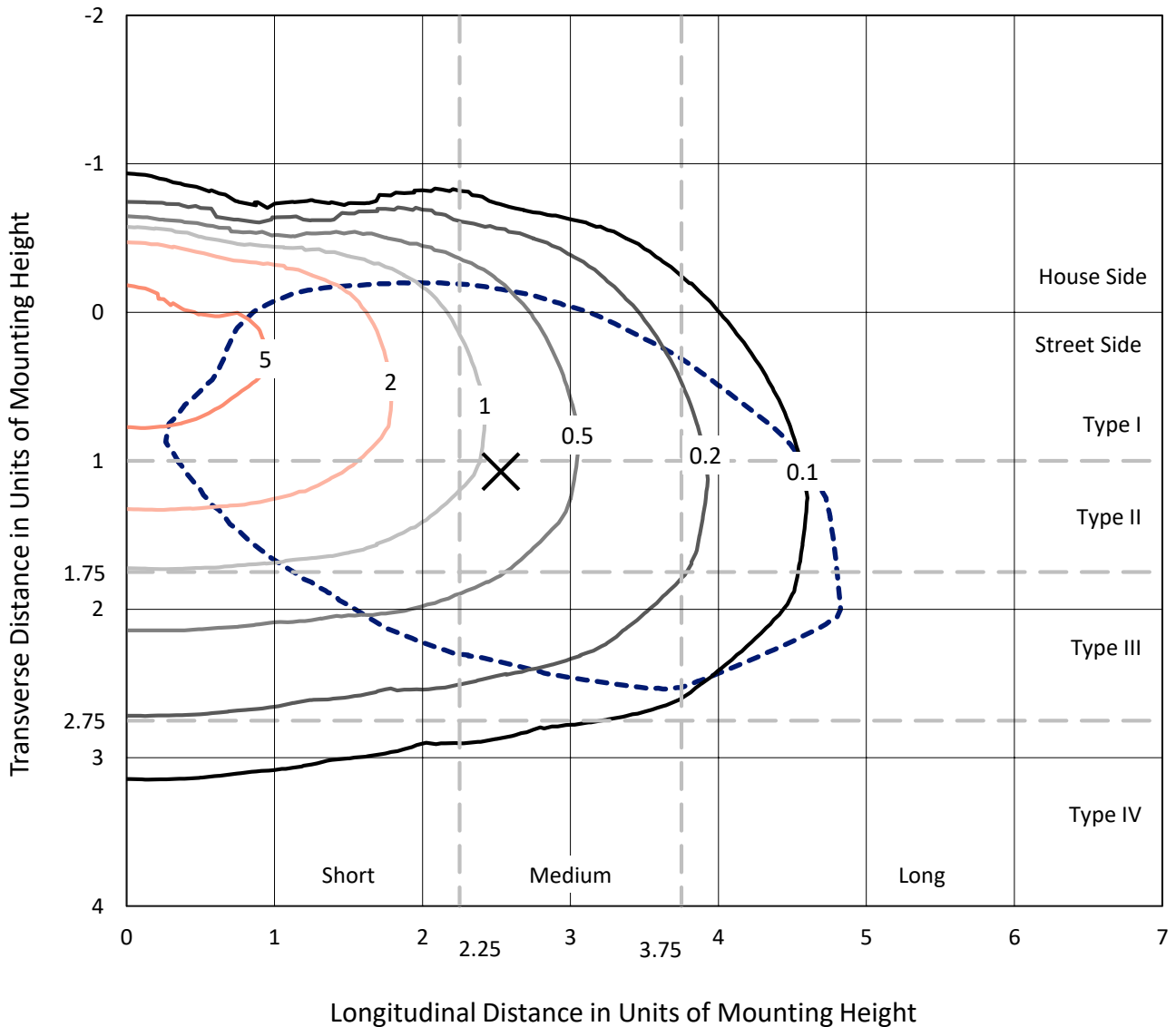
Input Watts (W): 193.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

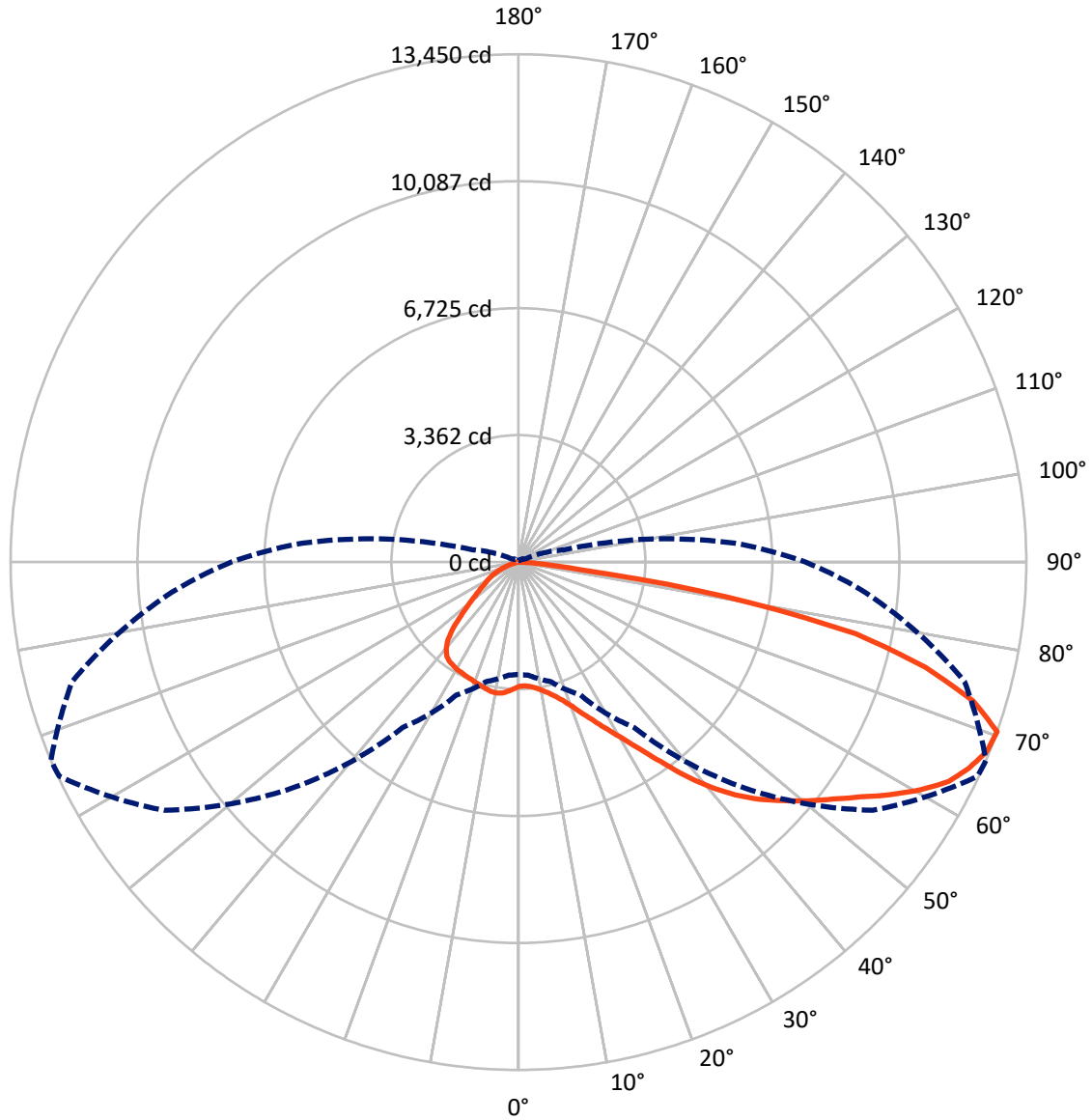
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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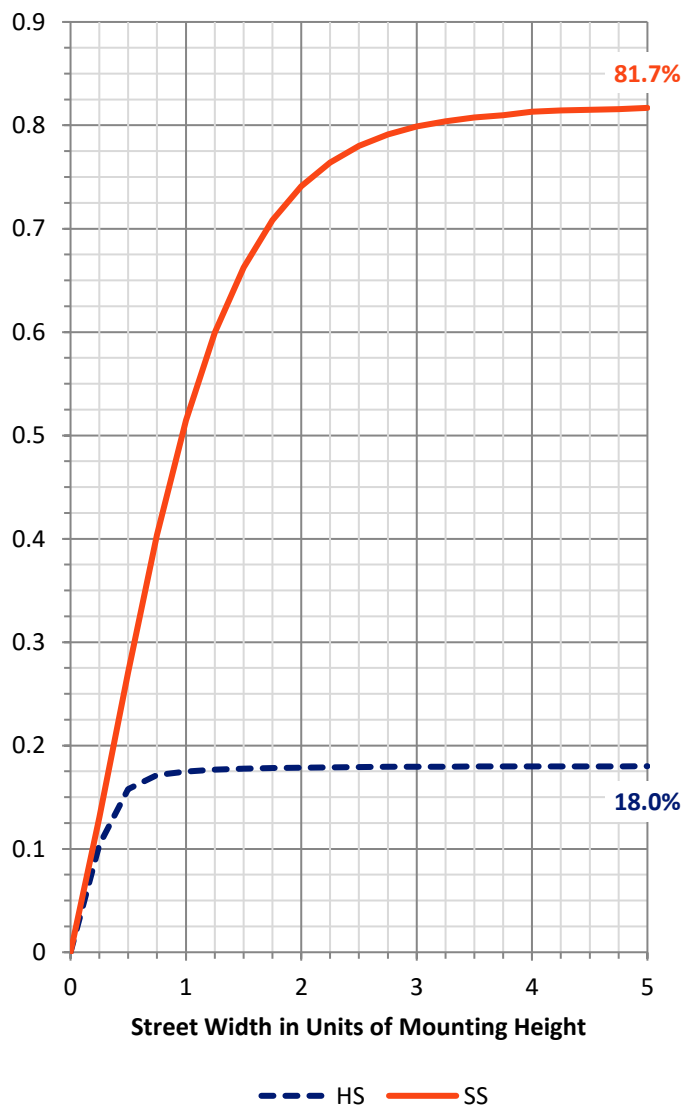
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3984.2	0.0	3984.2
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	17881.8	0.0	17881.8
	% Fixture	81.8	0.0	81.8
Total	Lumens	21866.0	0.0	21866.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.7	1.5
10°-20°	1022.4	4.7
20°-30°	1773.8	8.1
30°-40°	2634.5	12.0
40°-50°	3614.4	16.5
50°-60°	4438.7	20.3
60°-70°	4758.7	21.8
70°-80°	3020.9	13.8
80°-90°	274.9	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°	21866.0	100.0
0°-180°	21866.0	100.0

Coefficient of Utilization



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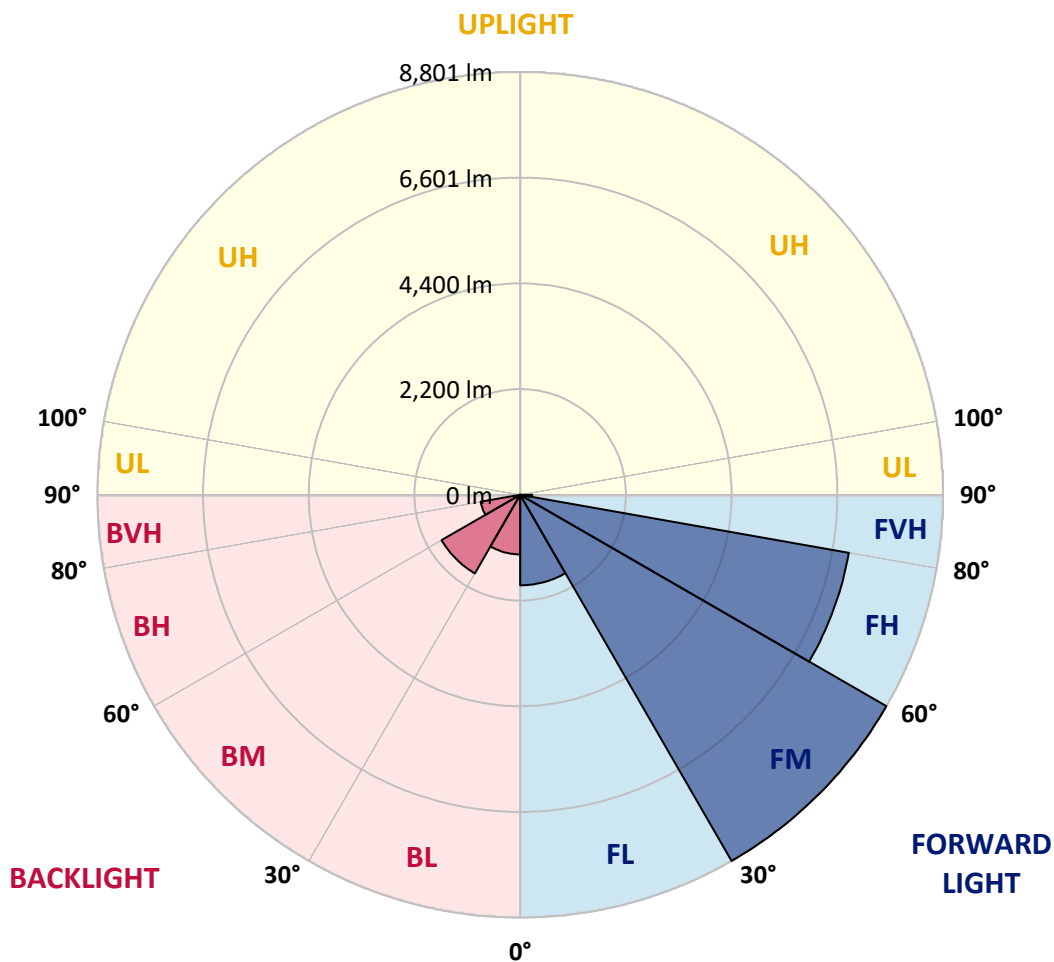
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1883.9	8.6			
FM	(30°-60°)	8800.8	40.2			
FH	(60°-80°)	6946.3	31.8			G3/7500
FVH	(80°-90°)	250.8	1.1			G3/500
BL	(0°-30°)	1239.9	5.7	B3/2500		
BM	(30°-60°)	1886.7	8.6	B2/2500		
BH	(60°-80°)	833.3	3.8	B2/1000		G2/1000
BVH	(80°-90°)	24.2	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3289.1	3289.1	3289.1	3289.1	3289.1	3289.1	3289.1	3289.1	3289.1	3289.1	3289.1
2.5°	3259.5	3290.2	3272.2	3270.1	3291.3	3271.2	3284.9	3281.7	3279.6	3282.8	3305.0
5°	3345.2	3381.2	3356.8	3349.4	3361.1	3325.1	3321.9	3314.5	3312.4	3313.5	3345.2
7.5°	3464.8	3507.1	3497.6	3478.5	3472.2	3412.9	3402.3	3375.9	3367.4	3369.5	3401.3
10°	3653.1	3695.4	3676.3	3634.0	3607.6	3539.9	3501.8	3467.9	3451.0	3453.1	3487.0
12.5°	3894.3	3934.5	3902.7	3825.5	3810.7	3701.7	3642.5	3570.6	3558.9	3542.0	3578.0
15°	4121.7	4156.6	4141.8	4069.9	4029.7	3900.6	3791.7	3702.8	3692.2	3676.3	3675.3
17.5°	4373.5	4408.4	4380.9	4328.0	4275.1	4121.7	4004.3	3890.0	3862.5	3848.8	3799.1
20°	4642.2	4697.3	4692.0	4648.6	4585.1	4405.3	4239.2	4110.1	4080.5	4055.1	3950.4
22.5°	4919.4	4991.4	4975.5	4952.2	4925.8	4723.7	4530.1	4380.9	4358.7	4304.8	4139.7
25°	5226.2	5276.0	5264.3	5276.0	5258.0	5079.2	4867.6	4685.6	4656.0	4605.2	4352.4
27.5°	5523.5	5575.3	5595.4	5571.1	5582.8	5454.7	5204.0	5041.1	5012.5	4919.4	4608.4
30°	5792.2	5856.8	5885.3	5895.9	5935.0	5802.8	5617.7	5419.8	5410.3	5315.1	4945.9
32.5°	6007.0	6078.9	6148.8	6194.2	6256.7	6198.5	6014.4	5894.8	5895.9	5810.2	5452.6
35°	6162.5	6245.0	6346.6	6467.2	6598.4	6574.0	6465.1	6467.2	6484.1	6512.7	6099.0
37.5°	6334.9	6401.6	6521.1	6689.4	6889.3	6940.1	6925.3	7093.5	7176.0	7226.8	6667.1
40°	6437.6	6505.3	6654.4	6880.8	7171.8	7293.4	7429.9	7725.1	7833.0	7780.1	7152.7
42.5°	6324.4	6384.7	6643.9	7035.3	7403.5	7679.6	7924.0	8355.6	8433.9	8261.5	7562.2
45°	6177.3	6255.6	6528.6	7077.6	7608.7	8058.3	8438.1	8904.7	8962.9	8718.5	7924.0
47.5°	6056.7	6125.5	6443.9	7032.1	7798.1	8446.6	8889.9	9423.1	9437.9	9136.4	8298.5
50°	5902.3	5985.8	6318.0	6976.1	7912.3	8790.4	9303.5	9906.6	9939.4	9569.1	8615.9
52.5°	5740.4	5821.8	6165.7	6884.0	7994.9	9076.1	9733.1	10420.7	10423.9	10027.2	8954.4
55°	5501.3	5588.0	5968.9	6750.7	8020.2	9265.4	10164.7	10945.5	10978.3	10491.6	9261.2
57.5°	5248.4	5322.5	5731.9	6543.4	7926.1	9444.2	10608.0	11528.4	11618.3	11015.3	9524.6
60°	4913.1	4987.1	5419.8	6271.5	7726.1	9645.2	11115.8	12230.9	12240.4	11439.5	9716.1
62.5°	4552.3	4616.9	5014.6	5845.1	7416.2	9722.5	11551.7	12792.6	12791.6	11817.2	9811.3
65°	4123.9	4150.3	4555.5	5321.4	6934.8	9609.3	11744.2	13162.9	13126.9	12089.1	9779.6
67.5°	3616.0	3644.6	3951.4	4670.8	6236.6	9167.1	11658.5	13341.7	13377.7	12331.4	9642.1
70°	2972.8	3006.7	3274.3	3881.6	5346.8	8461.4	11457.5	13418.9	13449.6	12234.0	9217.8
72.5°	2194.2	2239.7	2403.6	2889.2	4058.3	7109.4	10526.5	12573.6	12590.6	11421.5	8334.5
75°	1362.6	1446.2	1600.7	1920.2	2633.2	4986.1	8997.8	11240.6	11134.8	10188.0	6896.7
77.5°	544.8	558.6	635.8	899.2	1284.3	2596.2	6522.2	8935.4	9137.4	8151.4	4933.2
80°	317.4	315.3	333.3	418.9	551.2	887.6	2536.9	5012.5	5587.0	4477.2	2219.6
82.5°	256.0	246.5	246.5	268.7	264.5	373.5	831.5	1464.2	1606.0	1425.0	631.6
85°	134.4	131.2	106.9	132.2	132.2	186.2	319.5	414.7	438.0	381.9	237.0
87.5°	33.9	33.9	33.9	41.3	32.8	39.1	54.0	65.6	67.7	55.0	34.9
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°	3289.1	3289.1	3289.1	3289.1	3289.1	3289.1	3289.1	3289.1	3289.1	3289.1	3289.1
2.5°	3313.5	3323.0	3360.0	3354.7	3361.1	3361.1	3371.7	3383.3	3418.2	3398.1	3389.6
5°	3351.6	3370.6	3417.1	3434.1	3459.5	3462.6	3483.8	3491.2	3529.3	3508.1	3508.1
7.5°	3424.6	3446.8	3490.1	3496.5	3508.1	3488.0	3493.3	3470.0	3495.4	3470.0	3471.1
10°	3507.1	3521.9	3551.5	3509.2	3491.2	3443.6	3433.0	3375.9	3396.0	3363.2	3354.7
12.5°	3586.4	3581.1	3558.9	3483.8	3434.1	3355.8	3323.0	3245.8	3241.5	3198.2	3189.7
15°	3661.5	3624.5	3552.6	3436.2	3351.6	3242.6	3164.3	3079.7	3050.0	3000.3	2996.1
17.5°	3753.6	3690.1	3562.1	3390.7	3252.1	3093.4	2982.3	2887.1	2825.8	2780.3	2779.2
20°	3865.7	3768.4	3566.3	3338.9	3149.5	2946.4	2790.8	2670.2	2582.4	2525.3	2524.2
22.5°	4006.4	3874.2	3605.5	3279.6	3018.3	2768.6	2575.0	2366.6	2246.0	2129.6	2108.5
25°	4171.5	3981.0	3639.3	3248.9	2889.2	2583.5	2295.7	1991.0	1803.8	1710.7	1675.8
27.5°	4403.1	4158.8	3689.0	3190.7	2767.6	2355.0	1936.0	1603.8	1378.5	1299.2	1299.2
30°	4670.8	4383.0	3782.1	3155.8	2598.3	2034.4	1541.4	1184.9	975.4	855.9	852.7
32.5°	5079.2	4650.7	3866.8	3080.7	2393.1	1685.3	1115.1	763.8	595.6	521.6	517.3
35°	5666.3	5160.6	4003.2	3005.6	2095.8	1254.7	707.8	438.0	339.6	297.3	295.2
37.5°	6231.3	5646.2	4297.4	2856.4	1673.7	788.2	392.5	252.8	207.4	202.1	200.0
40°	6629.1	6065.2	4504.7	2629.0	1189.1	417.9	227.5	183.0	179.8	177.7	176.7
42.5°	7062.8	6376.2	4651.8	2339.1	705.6	242.3	185.1	165.0	159.7	157.6	157.6
45°	7415.1	6675.6	4679.3	1924.4	355.5	200.0	169.3	150.2	143.9	148.1	149.2
47.5°	7739.9	6958.1	4586.2	1447.3	240.2	186.2	158.7	139.6	135.4	146.0	146.0
50°	8017.1	7197.2	4372.5	1080.2	225.3	175.6	148.1	129.1	128.0	137.5	138.6
52.5°	8293.2	7389.7	4036.0	815.7	213.7	164.0	137.5	119.5	116.4	122.7	123.8
55°	8512.2	7458.5	3786.4	607.3	205.2	153.4	128.0	110.0	102.6	101.6	103.7
57.5°	8632.8	7398.2	3542.0	446.5	195.7	143.9	118.5	97.3	85.7	85.7	85.7
60°	8634.9	7325.2	3280.7	353.4	185.1	133.3	107.9	83.6	71.9	69.8	69.8
62.5°	8611.6	7195.1	2900.9	306.8	173.5	124.8	94.2	70.9	62.4	59.2	59.2
65°	8509.0	6949.6	2440.7	262.4	159.7	118.5	80.4	63.5	56.1	51.8	51.8
67.5°	8189.5	6489.4	1878.9	228.5	147.1	104.7	73.0	57.1	49.7	45.5	44.4
70°	7603.4	5745.7	1239.9	194.7	134.4	93.1	66.7	51.8	44.4	40.2	39.1
72.5°	6620.6	4676.1	623.1	165.0	115.3	85.7	60.3	45.5	38.1	33.9	33.9
75°	5188.1	3245.8	339.6	131.2	91.0	75.1	52.9	38.1	32.8	29.6	29.6
77.5°	3181.2	1609.1	231.7	101.6	68.8	61.4	42.3	31.7	28.6	27.5	27.5
80°	1160.6	526.9	155.5	71.9	51.8	47.6	33.9	27.5	26.4	26.4	26.4
82.5°	418.9	267.7	104.7	48.7	32.8	36.0	27.5	23.3	22.2	23.3	24.3
85°	172.4	117.4	38.1	27.5	18.0	19.0	16.9	15.9	16.9	18.0	18.0
87.5°	26.4	23.3	13.8	13.8	10.6	9.5	7.4	8.5	10.6	12.7	12.7
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)