

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: P509886

Luminaire Tested: **VERD-M-CA3-160-730-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509886  
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-CA3-160-730-U-T3-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 1000mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

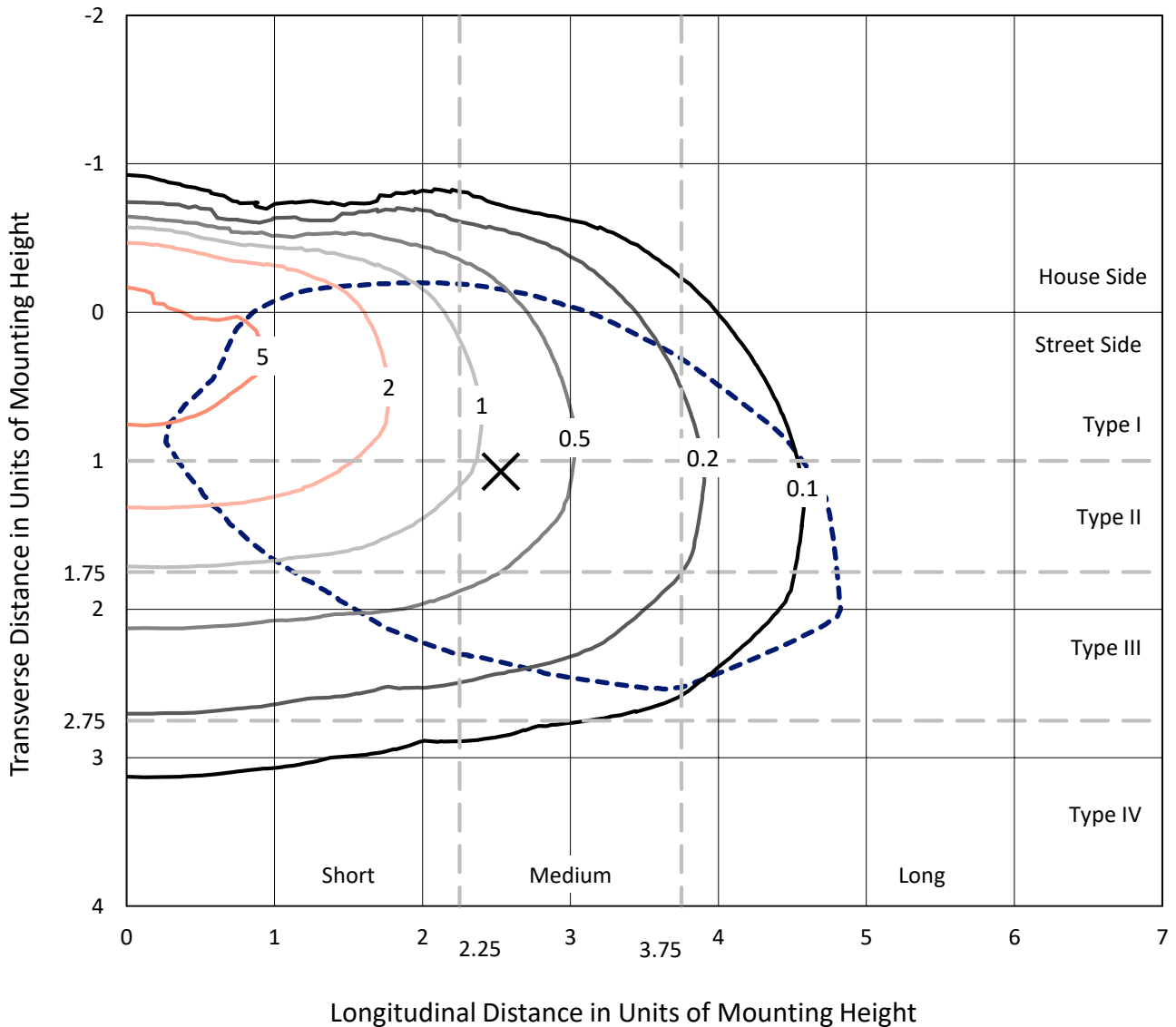
Lumens per Lamp: N/A  
Luminaire Lumens: 21384 lumens  
Efficiency: N/A  
Efficacy: 131.4 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 162.7  
Input Voltage (V): NR  
Input Current (Ain): 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

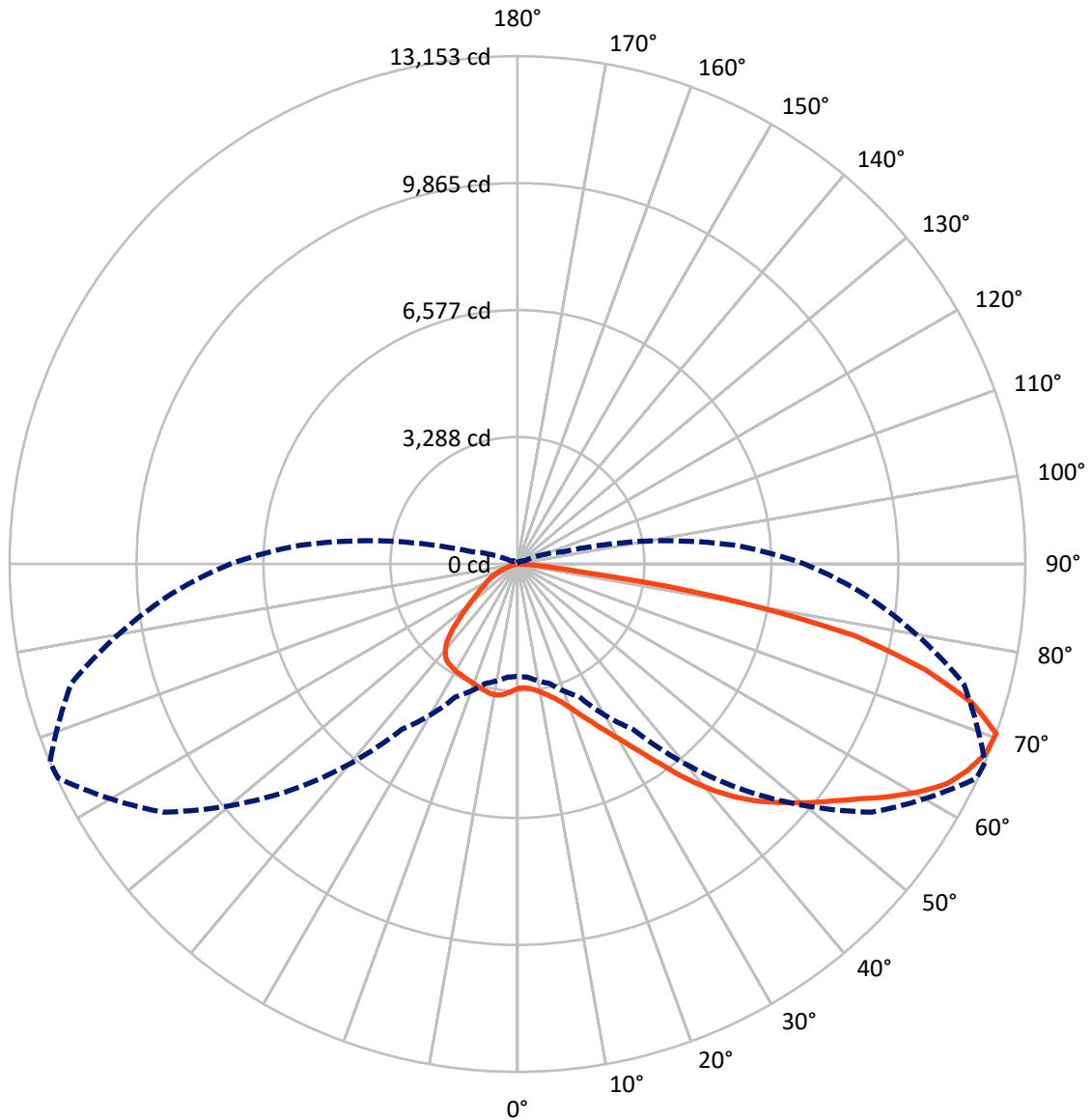
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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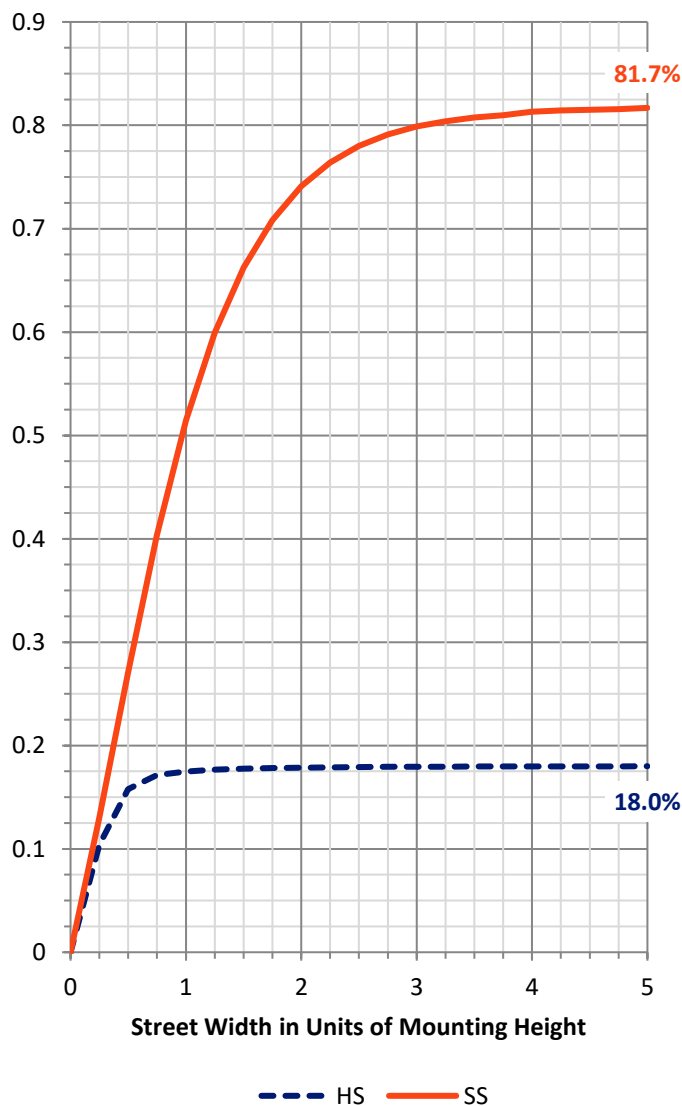
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3896.3	0.0	3896.3
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	17487.7	0.0	17487.7
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	21384.0	0.0	21384.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	320.5	1.5
10°-20°	999.8	4.7
20°-30°	1734.7	8.1
30°-40°	2576.4	12.0
40°-50°	3534.7	16.5
50°-60°	4340.8	20.3
60°-70°	4653.8	21.8
70°-80°	2954.3	13.8
80°-90°	268.9	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°	21384.0	100.0
0°-180°	21384.0	100.0

**Coefficient of Utilization**



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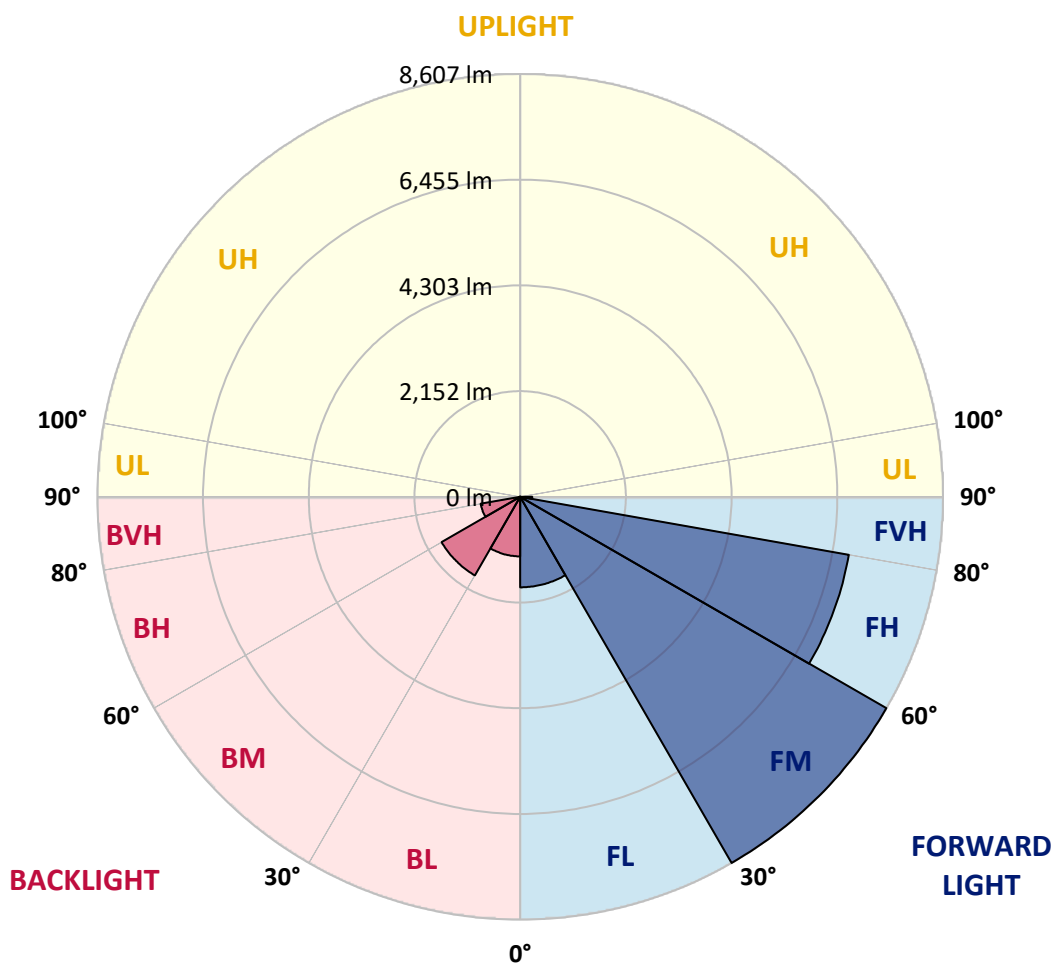
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1842.4	8.6			
FM	(30°-60°)	8606.8	40.2			
FH	(60°-80°)	6793.2	31.8			G3/7500
FVH	(80°-90°)	245.2	1.1			G3/500
BL	(0°-30°)	1212.6	5.7	B3/2500		
BM	(30°-60°)	1845.1	8.6	B2/2500		
BH	(60°-80°)	815.0	3.8	B2/1000		G2/1000
BVH	(80°-90°)	23.6	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°	3216.6	3216.6	3216.6	3216.6	3216.6	3216.6	3216.6	3216.6	3216.6	3216.6	3216.6
2.5°	3187.7	3217.7	3200.1	3198.0	3218.7	3199.0	3212.5	3209.4	3207.3	3210.4	3232.2
5°	3271.5	3306.6	3282.9	3275.6	3287.0	3251.8	3248.7	3241.5	3239.4	3240.4	3271.5
7.5°	3388.4	3429.8	3420.5	3401.8	3395.6	3337.7	3327.3	3301.5	3293.2	3295.3	3326.3
10°	3572.5	3613.9	3595.3	3553.9	3528.1	3461.8	3424.6	3391.5	3374.9	3377.0	3410.1
12.5°	3808.4	3847.8	3816.7	3741.2	3726.7	3620.1	3562.2	3491.8	3480.5	3463.9	3499.1
15°	4030.9	4065.0	4050.5	3980.2	3940.9	3814.6	3708.1	3621.2	3610.8	3595.3	3594.3
17.5°	4277.1	4311.3	4284.4	4232.6	4180.9	4030.9	3916.0	3804.3	3777.4	3763.9	3715.3
20°	4539.9	4593.7	4588.5	4546.1	4484.0	4308.2	4145.7	4019.5	3990.5	3965.7	3863.3
22.5°	4811.0	4881.3	4865.8	4843.1	4817.2	4619.6	4430.2	4284.4	4262.6	4209.9	4048.5
25°	5111.0	5159.7	5148.3	5159.7	5142.1	4967.2	4760.3	4582.3	4553.4	4503.7	4256.4
27.5°	5401.8	5452.4	5472.1	5448.3	5459.7	5334.5	5089.3	4930.0	4902.0	4811.0	4506.8
30°	5664.5	5727.7	5755.6	5765.9	5804.2	5674.9	5493.8	5300.4	5291.0	5197.9	4836.8
32.5°	5874.6	5944.9	6013.2	6057.7	6118.7	6061.8	5881.8	5764.9	5765.9	5682.1	5332.4
35°	6026.7	6107.4	6206.7	6324.6	6452.9	6429.1	6322.6	6324.6	6341.2	6369.1	5964.6
37.5°	6195.3	6260.5	6377.4	6541.9	6737.4	6787.1	6772.6	6937.1	7017.8	7067.5	6520.2
40°	6295.7	6361.9	6507.8	6729.2	7013.7	7132.7	7266.1	7554.8	7660.3	7608.6	6995.1
42.5°	6185.0	6243.9	6497.4	6880.2	7240.3	7510.3	7749.3	8171.4	8248.0	8079.3	7395.5
45°	6041.1	6117.7	6384.6	6921.6	7441.0	7880.7	8252.1	8708.4	8765.3	8526.3	7749.3
47.5°	5923.2	5990.5	6301.9	6877.1	7626.2	8260.4	8693.9	9215.4	9229.8	8935.0	8115.6
50°	5772.1	5853.9	6178.8	6822.3	7737.9	8596.7	9098.5	9688.2	9720.3	9358.1	8425.9
52.5°	5613.8	5693.5	6029.8	6732.3	7818.6	8876.0	9518.5	10191.0	10194.1	9806.1	8757.0
55°	5380.0	5464.9	5837.3	6601.9	7843.5	9061.2	9940.6	10704.2	10736.3	10260.3	9057.1
57.5°	5132.8	5205.2	5605.6	6399.1	7751.4	9236.1	10374.1	11274.3	11362.2	10772.5	9314.7
60°	4804.8	4877.2	5300.4	6133.2	7555.8	9432.6	10870.8	11961.2	11970.6	11187.3	9502.0
62.5°	4452.0	4515.1	4904.1	5716.3	7252.7	9508.2	11297.0	12510.6	12509.6	11556.7	9595.1
65°	4032.9	4058.8	4455.1	5204.1	6781.9	9397.5	11485.3	12872.7	12837.6	11822.6	9564.0
67.5°	3536.3	3564.3	3864.3	4567.8	6099.1	8965.0	11401.5	13047.6	13082.8	12059.5	9429.5
70°	2907.3	2940.4	3202.1	3796.0	5229.0	8274.9	11204.9	13123.1	13153.1	11964.3	9014.6
72.5°	2145.8	2190.3	2350.7	2825.5	3968.8	6952.6	10294.5	12296.5	12313.0	11169.8	8150.7
75°	1332.6	1414.3	1565.4	1877.8	2575.2	4876.2	8799.4	10992.8	10889.4	9963.4	6744.7
77.5°	532.8	546.3	621.8	879.4	1256.0	2539.0	6378.4	8738.4	8936.0	7971.7	4824.4
80°	310.4	308.3	325.9	409.7	539.0	868.0	2481.0	4902.0	5463.8	4378.5	2170.6
82.5°	250.4	241.1	241.1	262.8	258.7	365.2	813.2	1431.9	1570.6	1393.6	617.7
85°	131.4	128.3	104.5	129.3	129.3	182.1	312.5	405.6	428.3	373.5	231.8
87.5°	33.1	33.1	33.1	40.4	32.1	38.3	52.8	64.1	66.2	53.8	34.1
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°	3216.6	3216.6	3216.6	3216.6	3216.6	3216.6	3216.6	3216.6	3216.6	3216.6	3216.6
2.5°	3240.4	3249.7	3286.0	3280.8	3287.0	3287.0	3297.3	3308.7	3342.9	3323.2	3314.9
5°	3277.7	3296.3	3341.8	3358.4	3383.2	3386.3	3407.0	3414.2	3451.5	3430.8	3430.8
7.5°	3349.1	3370.8	3413.2	3419.4	3430.8	3411.1	3416.3	3393.6	3418.4	3393.6	3394.6
10°	3429.8	3444.3	3473.2	3431.8	3414.2	3367.7	3357.3	3301.5	3321.1	3289.1	3280.8
12.5°	3507.4	3502.2	3480.5	3407.0	3358.4	3281.8	3249.7	3174.2	3170.1	3127.7	3119.4
15°	3580.8	3544.6	3474.3	3360.4	3277.7	3171.1	3094.5	3011.8	2982.8	2934.2	2930.0
17.5°	3670.8	3608.8	3483.6	3316.0	3180.4	3025.2	2916.6	2823.5	2763.5	2719.0	2717.9
20°	3780.5	3685.3	3487.7	3265.3	3080.1	2881.4	2729.3	2611.4	2525.5	2469.6	2468.6
22.5°	3918.1	3788.8	3526.0	3207.3	2951.8	2707.6	2518.3	2314.4	2196.5	2082.7	2062.0
25°	4079.5	3893.3	3559.1	3177.3	2825.5	2526.5	2245.1	1947.2	1764.0	1673.0	1638.8
27.5°	4306.1	4067.1	3607.7	3120.4	2706.6	2303.1	1893.4	1568.5	1348.1	1270.5	1270.5
30°	4567.8	4286.4	3698.8	3086.3	2541.0	1989.6	1507.4	1158.8	953.9	837.0	833.9
32.5°	4967.2	4548.2	3781.5	3012.8	2340.3	1648.2	1090.5	747.0	582.5	510.1	505.9
35°	5541.4	5046.9	3915.0	2939.4	2049.6	1227.1	692.2	428.3	332.1	290.7	288.7
37.5°	6093.9	5521.8	4202.6	2793.5	1636.8	770.8	383.8	247.3	202.8	197.6	195.5
40°	6482.9	5931.5	4405.4	2571.0	1162.9	408.7	222.4	179.0	175.9	173.8	172.8
42.5°	6907.1	6235.7	4549.2	2287.5	690.1	236.9	181.1	161.4	156.2	154.2	154.2
45°	7251.7	6528.5	4576.1	1882.0	347.6	195.5	165.5	146.9	140.7	144.8	145.9
47.5°	7569.3	6804.7	4485.1	1415.4	234.9	182.1	155.2	136.6	132.4	142.8	142.8
50°	7840.4	7038.5	4276.1	1056.3	220.4	171.7	144.8	126.2	125.2	134.5	135.5
52.5°	8110.4	7226.8	3947.1	797.7	209.0	160.4	134.5	116.9	113.8	120.0	121.1
55°	8324.6	7294.1	3702.9	593.9	200.7	150.0	125.2	107.6	100.4	99.3	101.4
57.5°	8442.5	7235.1	3463.9	436.6	191.4	140.7	115.9	95.2	83.8	83.8	83.8
60°	8444.6	7163.7	3208.4	345.6	181.1	130.4	105.5	81.7	70.4	68.3	68.3
62.5°	8421.8	7036.5	2836.9	300.0	169.7	122.1	92.1	69.3	61.0	57.9	57.9
65°	8321.5	6796.4	2386.9	256.6	156.2	115.9	78.6	62.1	54.8	50.7	50.7
67.5°	8009.0	6346.4	1837.5	223.5	143.8	102.4	71.4	55.9	48.6	44.5	43.5
70°	7435.8	5619.0	1212.6	190.4	131.4	91.0	65.2	50.7	43.5	39.3	38.3
72.5°	6474.7	4573.0	609.4	161.4	112.8	83.8	59.0	44.5	37.2	33.1	33.1
75°	5073.8	3174.2	332.1	128.3	89.0	73.5	51.7	37.2	32.1	29.0	29.0
77.5°	3111.1	1573.7	226.6	99.3	67.3	60.0	41.4	31.0	27.9	26.9	26.9
80°	1135.0	515.2	152.1	70.4	50.7	46.6	33.1	26.9	25.9	25.9	25.9
82.5°	409.7	261.8	102.4	47.6	32.1	35.2	26.9	22.8	21.7	22.8	23.8
85°	168.6	114.8	37.2	26.9	17.6	18.6	16.6	15.5	16.6	17.6	17.6
87.5°	25.9	22.8	13.5	13.5	10.3	9.3	7.2	8.3	10.3	12.4	12.4
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)