

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: P322259

Luminaire Tested: **GAN-SA5D-740-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322259  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5D-740-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28260 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

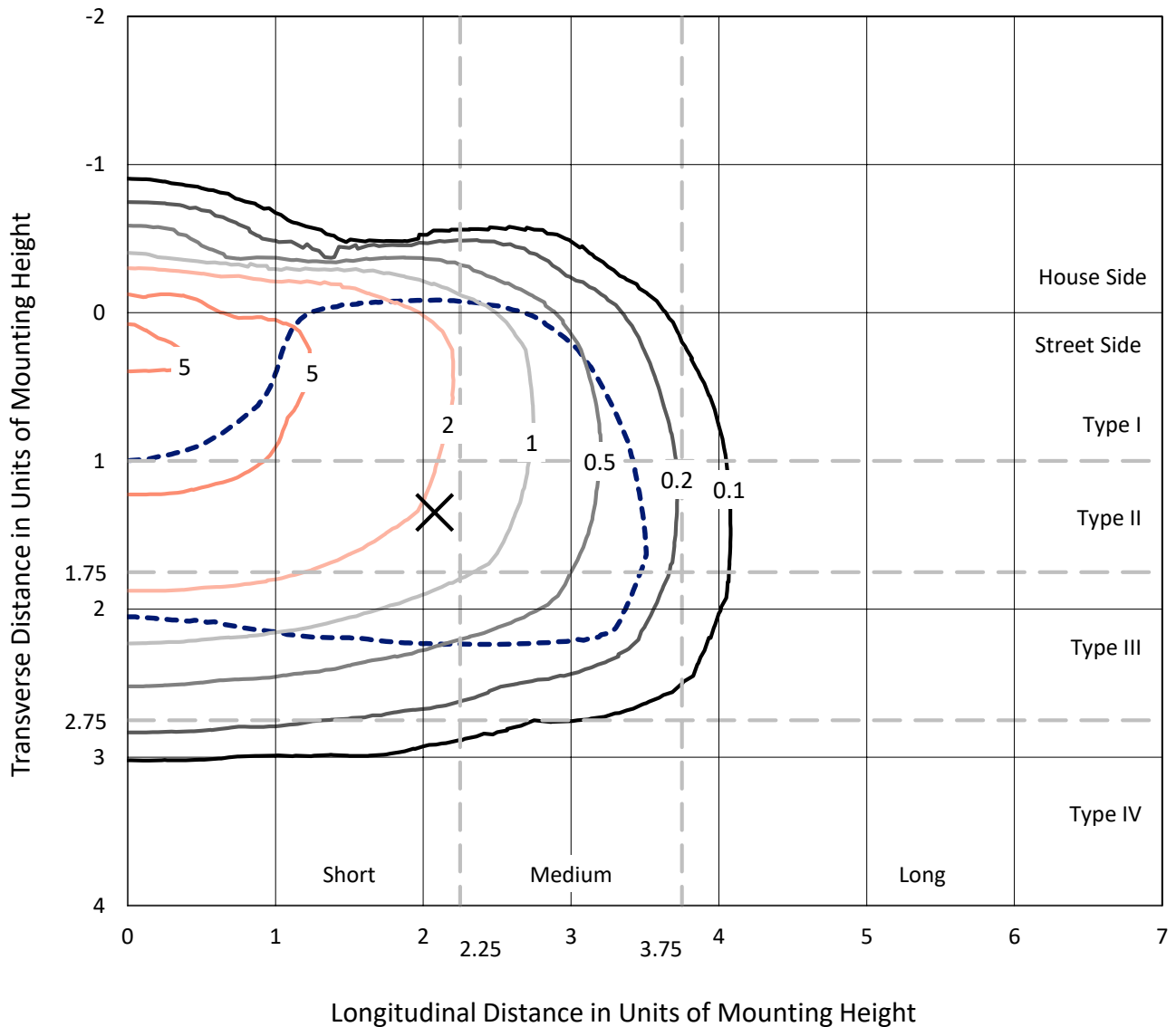
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

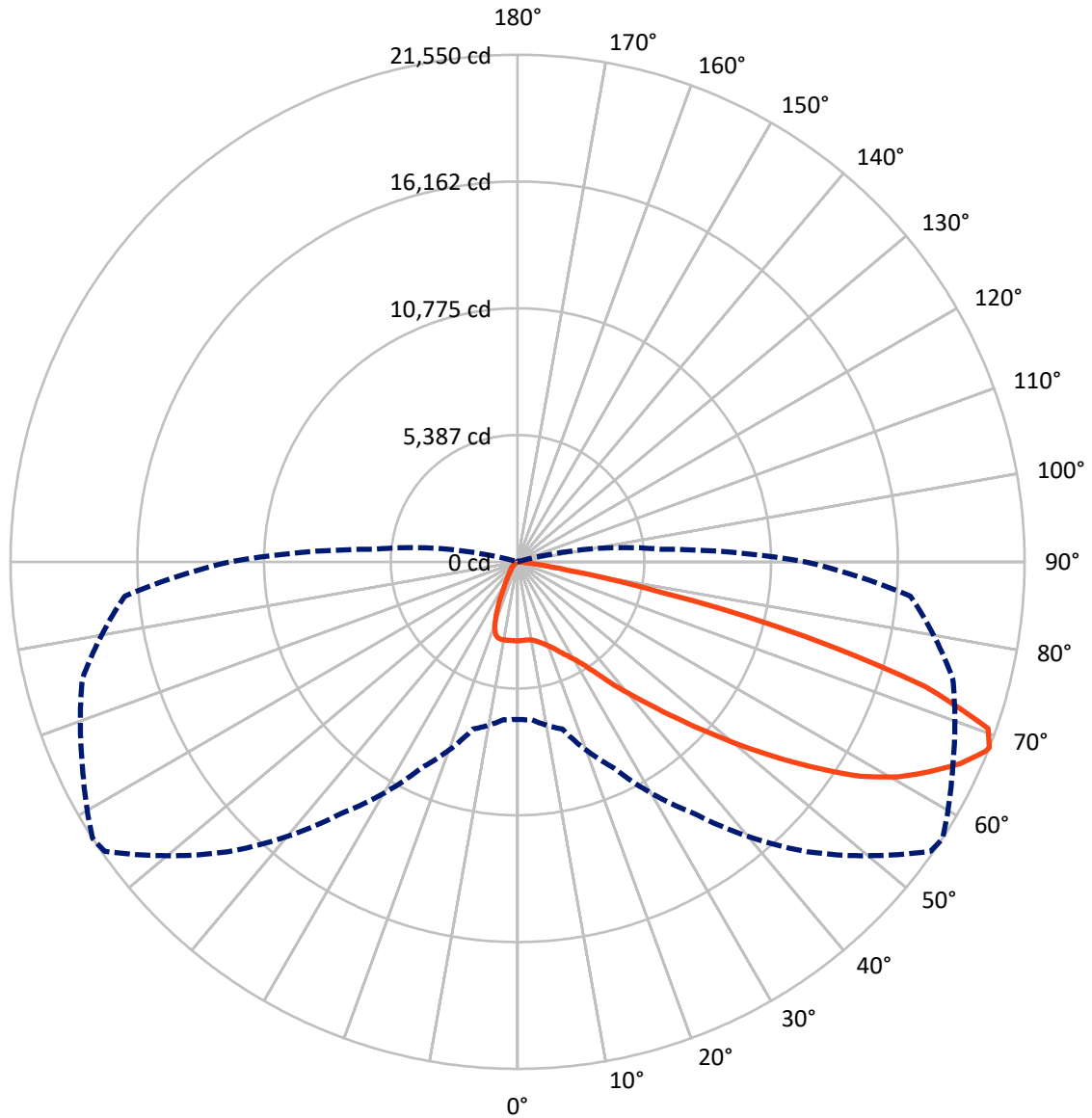
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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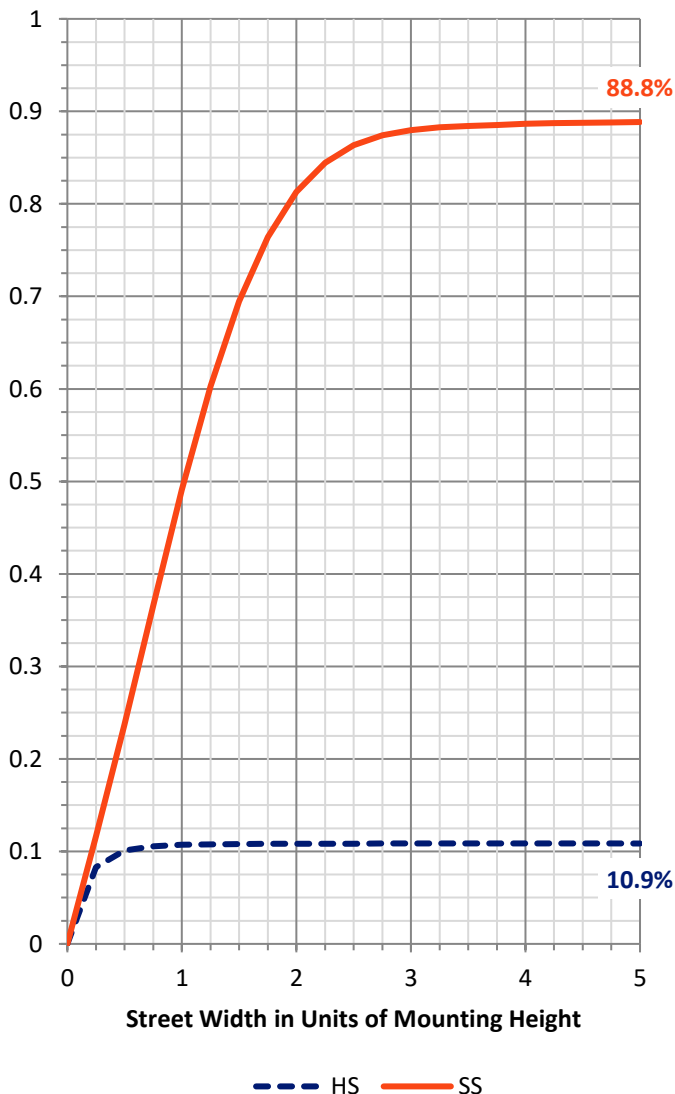
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3098.9	0.0	3098.9
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	25161.1	0.0	25161.1
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	28260.0	0.0	28260.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	314.3	1.1
10°-20°	870.8	3.1
20°-30°	1502.3	5.3
30°-40°	2592.9	9.2
40°-50°	4435.2	15.7
50°-60°	7095.9	25.1
60°-70°	8198.5	29.0
70°-80°	3132.8	11.1
80°-90°	117.4	0.4
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°	28260.0	100.0
0°-180°	28260.0	100.0

**Coefficient of Utilization**

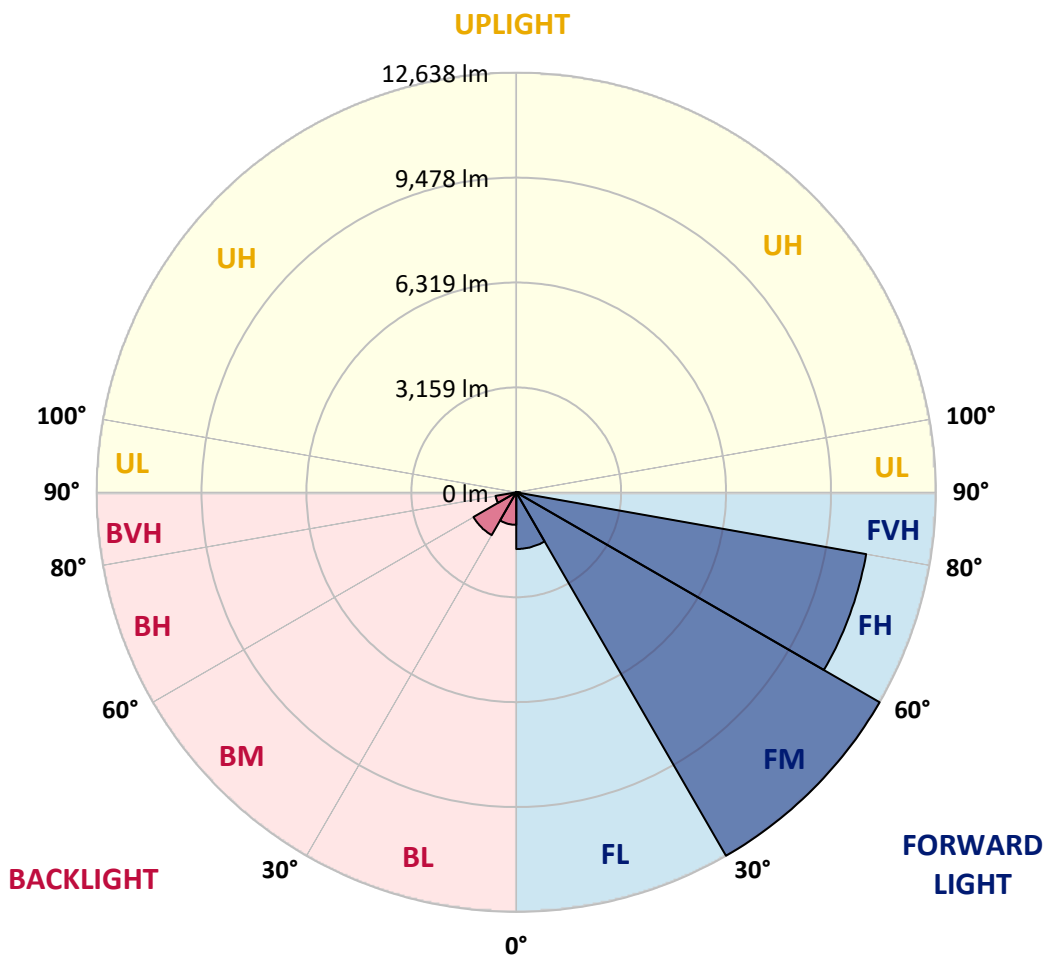


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1708.0	6.0			
FM (30°-60°)	12637.6	44.7			
FH (60°-80°)	10700.1	37.9			G4/12000
FVH (80°-90°)	115.3	0.4			G2/225
BL (0°-30°)	979.3	3.5	B2/1000		
BM (30°-60°)	1486.3	5.3	B2/2500		
BH (60°-80°)	631.1	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3358.0	3358.0	3358.0	3358.0	3358.0	3358.0	3358.0	3358.0	3358.0	3358.0	3358.0
2.5°	3279.2	3293.9	3304.6	3311.3	3319.3	3336.7	3342.0	3350.0	3354.0	3354.0	3363.4
5°	3149.6	3165.6	3188.3	3207.0	3244.5	3292.6	3327.3	3340.7	3364.7	3386.1	3398.1
7.5°	3029.3	3048.0	3074.7	3118.8	3183.0	3260.5	3332.6	3351.4	3398.1	3443.6	3466.3
10°	2951.8	2966.5	3001.3	3064.1	3148.2	3256.5	3358.0	3380.7	3460.9	3537.1	3579.9
12.5°	2925.1	2938.4	2974.5	3045.3	3149.6	3276.5	3416.8	3450.2	3567.8	3678.7	3738.9
15°	2963.8	2966.5	3005.3	3072.1	3175.0	3326.0	3514.4	3554.5	3702.8	3847.1	3921.9
17.5°	3113.5	3101.5	3121.5	3150.9	3232.4	3391.4	3617.3	3677.4	3875.2	4044.9	4115.7
20°	3487.7	3487.7	3442.2	3362.0	3363.4	3493.0	3756.2	3824.4	4066.3	4262.7	4326.8
22.5°	4127.7	4115.7	4024.8	3828.4	3648.0	3668.0	3925.9	4014.1	4296.1	4505.9	4527.3
25°	4897.4	4882.7	4742.4	4465.8	4153.1	3951.3	4155.8	4257.3	4570.0	4755.8	4711.7
27.5°	5712.5	5700.5	5561.5	5218.1	4773.1	4403.0	4429.7	4525.9	4849.3	5032.4	4892.1
30°	6502.3	6506.3	6368.6	6015.9	5512.1	4978.9	4777.1	4833.3	5120.6	5306.3	5105.9
32.5°	7253.2	7258.6	7139.7	6745.5	6275.1	5648.4	5258.2	5243.5	5435.9	5619.0	5389.2
35°	7922.7	7936.1	7854.6	7548.6	7050.1	6394.0	5882.2	5847.5	5883.6	6090.7	5823.4
37.5°	8568.1	8576.1	8514.7	8256.8	7839.9	7213.2	6670.6	6621.2	6543.7	6702.7	6396.7
40°	9275.0	9255.0	9184.1	8950.3	8592.2	8117.8	7517.8	7432.3	7297.3	7439.0	7150.4
42.5°	9932.5	9909.7	9921.8	9657.2	9355.2	9047.8	8505.3	8358.3	8279.5	8442.5	8075.0
45°	10754.3	10742.2	10782.3	10552.5	10307.9	10084.8	9637.1	9476.8	9442.0	9633.1	9193.5
47.5°	11565.4	11594.8	11719.0	11621.5	11522.6	11326.2	10835.8	10763.6	10785.0	11016.2	10373.4
50°	12241.5	12276.3	12617.0	12729.3	12872.2	12757.3	12265.6	12221.5	12305.7	12514.1	11642.9
52.5°	12730.6	12801.4	13225.0	13742.1	14263.3	14340.8	13850.4	13810.3	13923.9	13955.9	12623.7
55°	13070.0	13132.8	13612.5	14558.6	15619.6	15953.7	15649.0	15494.0	15472.6	15155.9	13655.3
57.5°	13130.1	13123.5	13813.0	15086.4	16683.3	17545.2	17352.7	17200.4	16762.1	16265.0	14837.9
60°	12790.7	12829.5	13629.9	15269.5	17351.4	18749.1	18763.8	18566.1	17883.2	17343.4	15984.4
62.5°	11745.8	11903.4	12711.9	14789.8	17343.4	19234.2	19798.1	19647.1	18830.6	18226.6	17146.9
65°	10051.4	10107.5	10878.5	13146.2	16171.5	19031.1	20729.5	20673.4	19684.5	19084.5	17744.3
67.5°	7340.1	7218.5	8028.3	10352.0	13691.4	17847.2	21397.6	21468.4	20343.3	19260.9	17108.2
68°	6698.7	6734.8	7365.5	9661.2	13041.9	17428.9	21441.7	21549.9	20408.8	19146.0	16760.8
70°	3992.8	4062.2	4624.8	6651.9	9921.8	15062.4	20966.0	21213.2	20018.6	17960.7	14497.1
72.5°	1019.6	1102.4	1634.3	2977.2	5667.1	10612.6	17698.8	18117.1	17380.8	14570.6	9786.8
75°	419.6	441.0	583.9	980.8	2111.3	4781.2	11665.6	12560.9	12049.1	8723.1	4423.0
77.5°	290.0	304.7	375.5	543.9	914.0	1620.9	5719.2	6366.0	5735.2	2977.2	964.8
80°	208.5	220.5	268.6	362.1	525.2	578.6	1864.1	2155.4	1711.8	653.4	239.2
82.5°	124.3	133.6	200.4	257.9	319.4	276.6	463.7	526.5	495.8	324.7	106.9
85°	61.5	72.2	135.0	184.4	172.4	116.3	141.6	157.7	195.1	197.8	57.5
87.5°	4.0	8.0	78.8	110.9	48.1	26.7	41.4	50.8	69.5	97.5	24.1
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°	3358.0	3358.0	3358.0	3358.0	3358.0	3358.0	3358.0	3358.0	3358.0	3358.0	3358.0
2.5°	3367.4	3368.7	3359.4	3355.4	3358.0	3342.0	3335.3	3338.0	3338.0	3342.0	3335.3
5°	3400.8	3400.8	3384.8	3363.4	3351.4	3320.6	3300.6	3295.2	3291.2	3288.5	3283.2
7.5°	3473.0	3464.9	3436.9	3390.1	3350.0	3283.2	3232.4	3205.7	3192.3	3187.0	3183.0
10°	3589.2	3574.5	3527.7	3440.9	3348.7	3229.8	3118.8	3040.0	2974.5	2947.8	2931.8
12.5°	3745.5	3724.2	3645.3	3501.0	3339.3	3120.2	2879.7	2648.5	2433.3	2345.1	2301.0
15°	3925.9	3895.2	3770.9	3551.8	3284.5	2873.0	2350.5	1945.6	1647.6	1535.4	1487.3
17.5°	4109.0	4068.9	3880.5	3583.9	3120.2	2361.2	1649.0	1245.4	1046.3	992.8	974.1
20°	4293.4	4234.6	3975.4	3559.8	2748.7	1702.4	1087.7	910.0	852.5	836.5	831.2
22.5°	4468.5	4377.6	4060.9	3466.3	2176.8	1142.5	860.6	804.4	785.7	776.4	773.7
25°	4620.8	4493.9	4135.7	3177.6	1540.7	863.2	775.0	756.3	732.3	714.9	716.2
27.5°	4763.8	4610.1	4181.2	2701.9	1027.6	737.6	717.6	692.2	648.1	622.7	622.7
30°	4936.2	4765.1	4214.6	2079.2	756.3	652.1	636.1	597.3	537.2	503.8	503.8
32.5°	5195.4	5000.3	4193.2	1459.2	626.7	573.3	535.8	482.4	416.9	384.8	383.5
35°	5592.3	5363.8	4040.9	956.8	553.2	498.4	438.3	372.8	315.4	288.6	287.3
37.5°	6126.8	5850.2	3698.8	684.2	495.8	428.9	356.8	284.6	241.9	224.5	223.2
40°	6820.3	6415.4	3209.7	554.5	442.3	362.1	275.3	220.5	191.1	177.7	179.1
42.5°	7652.8	7020.7	2623.1	478.4	390.2	298.0	215.1	173.7	155.0	145.7	143.0
45°	8577.5	7618.0	2008.4	426.3	338.1	240.5	168.4	137.6	122.9	117.6	117.6
47.5°	9594.4	8199.3	1469.9	380.8	282.0	185.7	135.0	112.2	100.2	96.2	94.9
50°	10517.7	8602.9	1059.7	332.7	231.2	147.0	109.6	93.5	85.5	80.2	80.2
52.5°	11287.4	8729.8	780.4	280.6	187.1	117.6	90.9	80.2	72.2	68.1	68.1
55°	11964.9	8677.7	579.9	231.2	151.0	96.2	77.5	68.1	61.5	57.5	57.5
57.5°	12614.3	8509.3	432.9	188.4	121.6	77.5	65.5	57.5	50.8	48.1	48.1
60°	13144.8	8228.7	322.0	152.3	97.5	62.8	54.8	46.8	41.4	37.4	37.4
62.5°	13575.1	7918.7	236.5	125.6	77.5	49.4	42.8	38.8	30.7	26.7	26.7
65°	13577.8	7404.2	177.7	104.2	60.1	38.8	32.1	30.7	20.0	16.0	14.7
67.5°	12595.6	6383.3	136.3	89.5	46.8	29.4	24.1	25.4	10.7	6.7	5.3
68°	12238.8	6124.1	128.3	88.2	44.1	28.1	22.7	25.4	9.4	5.3	4.0
70°	10318.6	4872.0	102.9	85.5	38.8	21.4	18.7	25.4	8.0	4.0	2.7
72.5°	6599.8	2827.5	76.2	68.1	29.4	16.0	12.0	22.7	8.0	2.7	1.3
75°	2808.8	876.6	52.1	48.1	17.4	12.0	8.0	14.7	5.3	1.3	0.0
77.5°	592.0	197.8	30.7	29.4	12.0	8.0	5.3	4.0	1.3	0.0	0.0
80°	152.3	57.5	16.0	14.7	6.7	4.0	2.7	0.0	0.0	0.0	0.0
82.5°	48.1	22.7	9.4	6.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.1	13.4	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.4	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)