

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: P322513

Luminaire Tested: **GAN-SA9A-730-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26945 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

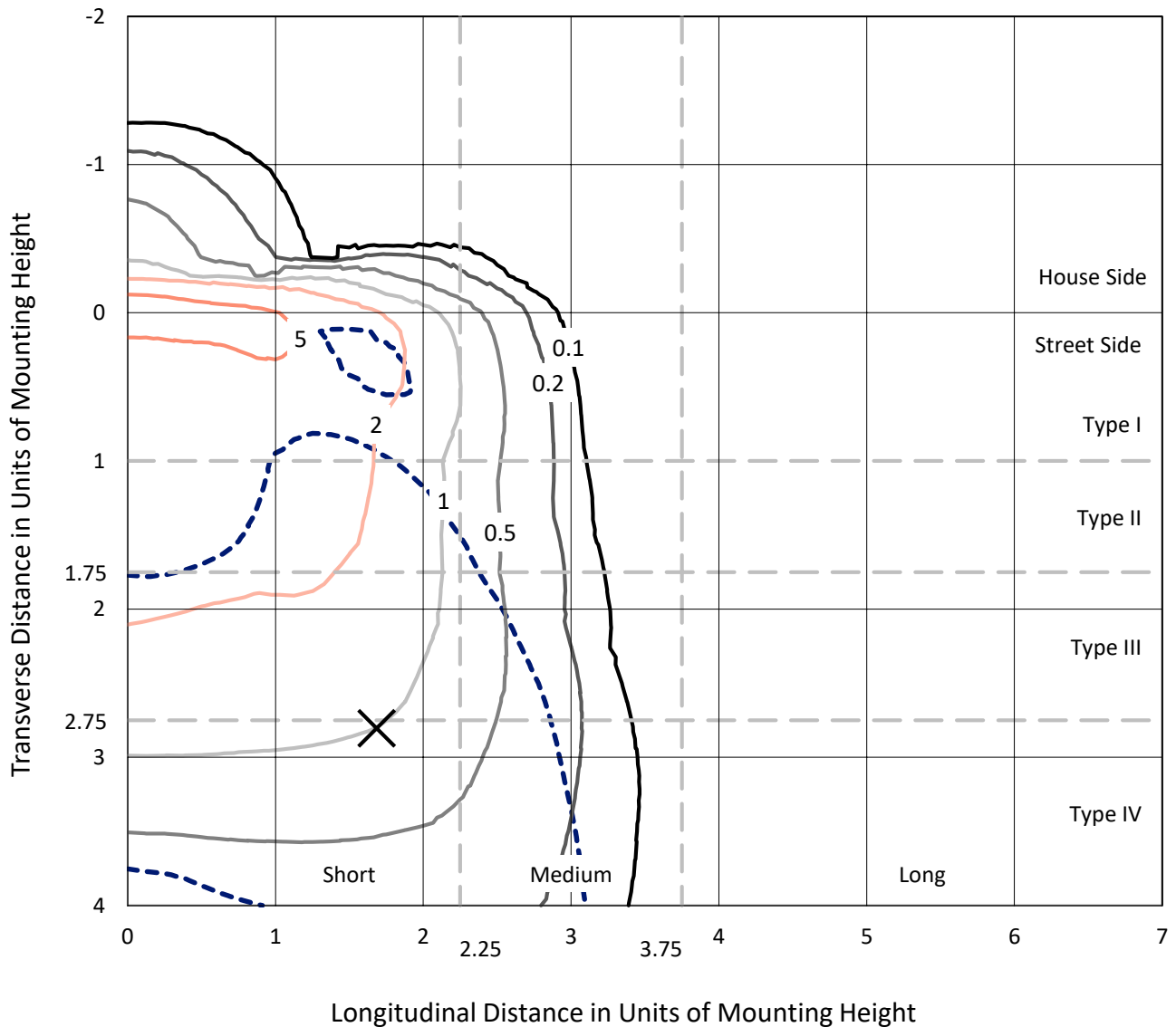
Input Watts (W): 290
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322513
 CATALOG NUMBER: GAN-SA9A-730-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

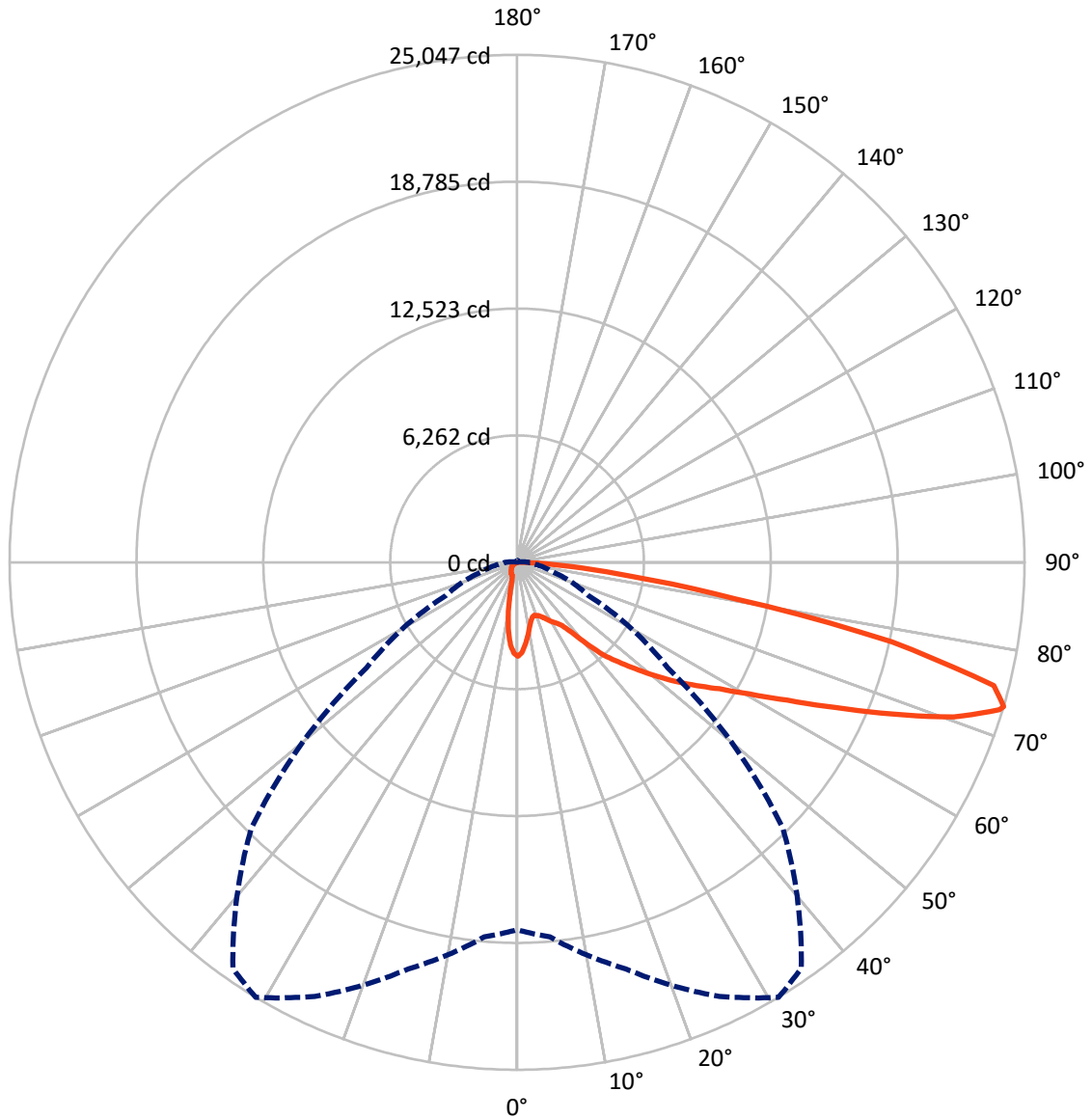
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P322513
CATALOG NUMBER: GAN-SA9A-730-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P322513
 CATALOG NUMBER: GAN-SA9A-730-U-T4FT-HSS

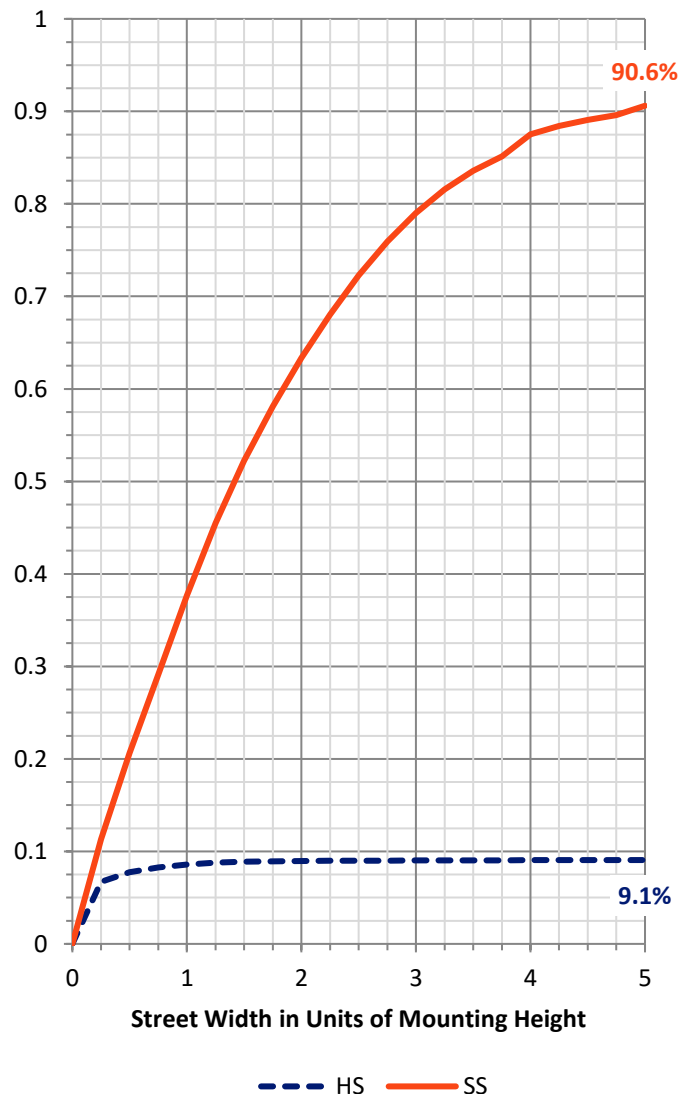
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2456.1	0.0	2456.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	24488.9	0.0	24488.9
	% Fixture	90.9	0.0	90.9
Total	Lumens	26945.0	0.0	26945.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.4	1.4
10°-20°	834.6	3.1
20°-30°	1250.5	4.6
30°-40°	1989.5	7.4
40°-50°	3552.7	13.2
50°-60°	5512.9	20.5
60°-70°	7328.6	27.2
70°-80°	5512.6	20.5
80°-90°	579.3	2.1
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°	26945.0	100.0
0°-180°	26945.0	100.0

Coefficient of Utilization

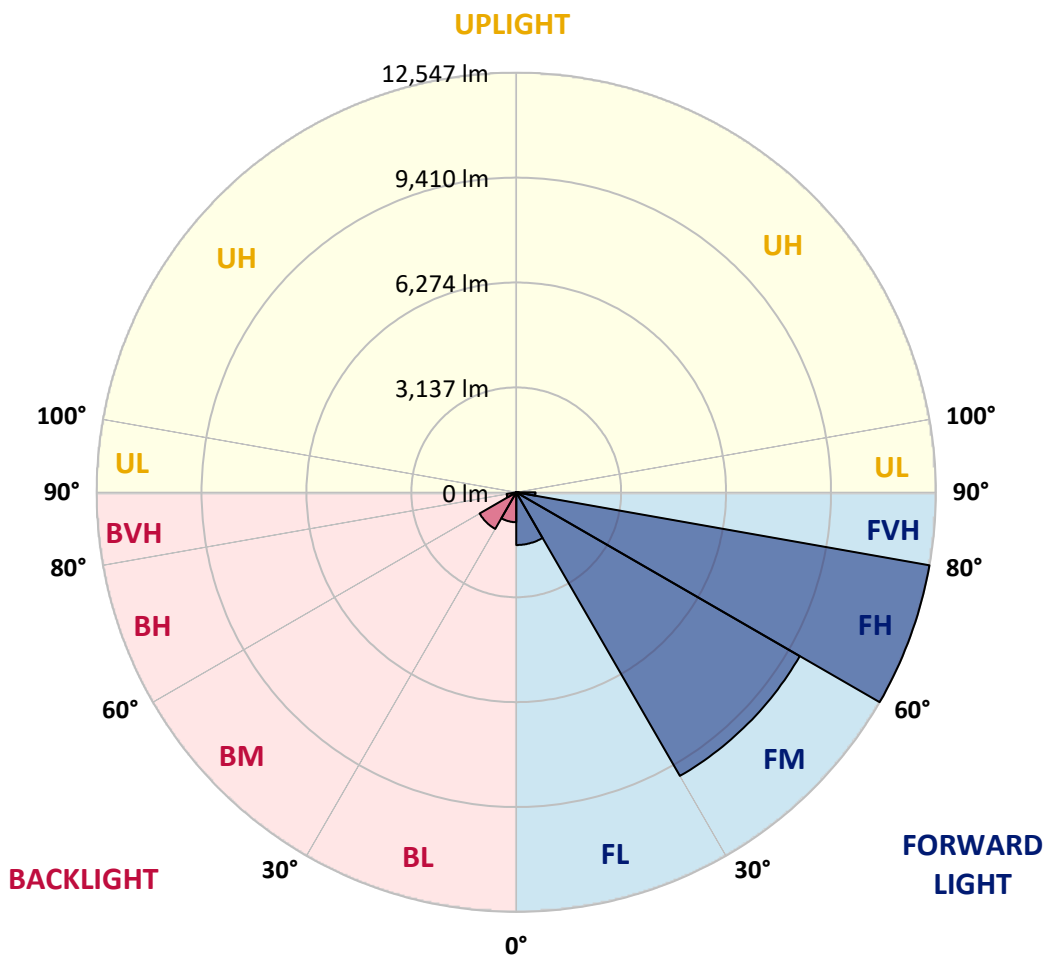


REPORT NUMBER: P322513
 CATALOG NUMBER: GAN-SA9A-730-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1576.3	5.9			
FM (30°-60°)	9790.9	36.3			
FH (60°-80°)	12547.3	46.6			G5
FVH (80°-90°)	574.4	2.1			G4/750
BL (0°-30°)	893.2	3.3	B2/1000		
BM (30°-60°)	1264.2	4.7	B2/2500		
BH (60°-80°)	293.9	1.1	B1/500		G1/500
BVH (80°-90°)	4.9	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-G5
 Type IV Short





REPORT NUMBER: P322513

CATALOG NUMBER: GAN-SA9A-730-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	4635.9	4635.9	4635.9	4635.9	4635.9	4635.9	4635.9	4635.9	4635.9	4635.9	4635.9
2.5°	4393.3	4411.8	4431.6	4435.5	4468.5	4469.8	4517.3	4552.9	4588.5	4622.8	4634.6
5°	3942.4	3972.7	4008.3	4043.9	4113.8	4141.5	4257.5	4376.2	4489.6	4597.7	4650.4
7.5°	3461.1	3495.4	3545.5	3633.9	3711.7	3765.7	3949.0	4160.0	4370.9	4570.0	4684.7
10°	3022.1	3053.7	3106.5	3200.1	3320.1	3393.9	3640.5	3933.2	4243.0	4545.0	4736.2
12.5°	2742.5	2759.7	2788.7	2888.9	2997.0	3080.1	3370.2	3732.8	4137.5	4543.6	4819.2
15°	2691.1	2696.4	2672.7	2717.5	2801.9	2882.3	3176.3	3570.6	4057.1	4564.7	4927.3
17.5°	2772.9	2770.2	2691.1	2685.8	2753.1	2819.0	3081.4	3458.5	4000.4	4613.5	5067.1
20°	2896.8	2887.6	2750.4	2725.4	2796.6	2858.6	3074.8	3416.3	3979.3	4695.3	5237.2
22.5°	3061.6	3045.8	2830.9	2804.5	2881.0	2945.6	3156.6	3457.2	3997.8	4804.7	5435.0
25°	3266.0	3242.3	2969.3	2940.3	3018.1	3082.7	3302.9	3574.5	4053.2	4937.9	5685.5
27.5°	3496.7	3462.5	3190.8	3115.7	3204.0	3271.3	3498.1	3753.8	4140.2	5079.0	5992.7
30°	3714.3	3669.5	3424.2	3300.3	3408.4	3483.5	3709.0	3967.4	4279.9	5296.5	6413.3
32.5°	3933.2	3883.1	3632.5	3484.9	3582.4	3664.2	3926.6	4261.5	4542.3	5628.8	6972.4
35°	4436.8	4384.1	4076.9	3833.0	3831.6	3877.8	4231.2	4663.6	4889.1	6091.6	7639.5
37.5°	5284.7	5254.3	4961.6	4498.8	4374.9	4323.5	4646.5	5143.6	5387.5	6728.4	8392.4
40°	6212.9	6186.5	5858.2	5438.9	5250.4	5123.8	5242.5	5812.1	6091.6	7506.4	9161.1
42.5°	7261.1	7135.9	6550.4	6425.2	6256.4	6160.2	6053.4	6636.1	6956.6	8352.9	9923.2
45°	8213.1	8002.1	7242.7	7052.8	7014.6	7038.3	7097.6	7743.7	7929.6	9358.9	10682.7
47.5°	8780.1	8613.9	8031.2	7849.2	7838.6	7995.6	8443.8	8995.0	8898.7	10235.7	11351.2
50°	9319.4	9169.0	8685.1	8730.0	8778.8	8992.4	9972.0	10281.9	9783.5	11030.8	11964.3
52.5°	9755.8	9526.4	9273.2	9525.0	9765.0	10109.1	11549.0	11436.9	10411.1	11663.7	12489.1
55°	10007.6	9903.5	10026.1	10279.2	10730.2	11289.2	13037.6	12398.1	10869.9	12241.2	12838.5
57.5°	10930.6	10726.2	10970.1	11189.0	11777.1	12559.0	14312.6	13114.1	11200.9	12598.5	12918.9
60°	12047.4	11882.6	12026.3	12390.2	13184.0	14103.0	15504.6	13698.2	11373.6	12828.0	12710.6
62.5°	13824.8	13607.2	13517.5	13925.0	14977.2	15980.6	16409.1	14103.0	11335.4	12726.4	11996.0
65°	16206.0	15980.6	15579.7	15948.9	17287.2	17995.3	17420.4	14188.7	11071.7	11905.0	10189.6
67.5°	18645.3	18481.8	18139.0	18761.3	19969.1	20197.2	18489.7	13980.3	10222.5	9652.9	7199.2
70°	20256.5	20186.7	20409.5	21786.0	22863.3	22797.3	19470.7	12860.9	7967.9	5936.0	3561.3
72.5°	19094.9	19429.8	21075.3	23571.3	24887.2	24349.2	18967.0	9875.8	4554.2	2283.7	1029.8
73°	18132.4	18560.9	20776.0	23638.6	25046.7	24457.4	18543.8	9064.9	3881.7	1802.4	780.6
75°	12614.4	13140.4	17200.2	22015.5	24300.5	23302.3	15457.1	5548.4	1798.5	799.0	315.1
77.5°	6124.6	6513.5	9471.0	15906.7	18898.5	18206.2	9622.6	2067.5	812.2	499.7	145.0
80°	2286.3	2542.1	4111.2	8095.8	10921.4	11207.5	4232.5	781.9	540.6	402.2	73.8
82.5°	598.6	667.2	1516.3	3610.1	5597.1	5858.2	1334.3	394.2	395.6	331.0	44.8
85°	191.2	218.9	473.4	1620.5	2637.1	2315.3	348.1	191.2	287.4	246.6	25.1
87.5°	23.7	30.3	150.3	381.1	581.5	323.0	54.1	56.7	122.6	137.1	14.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P322513

CATALOG NUMBER: GAN-SA9A-730-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4635.9	4635.9	4635.9	4635.9	4635.9	4635.9	4635.9	4635.9	4635.9	4635.9	4635.9
2.5°	4646.5	4639.9	4641.2	4606.9	4584.5	4539.7	4493.5	4472.4	4450.0	4440.8	4450.0
5°	4670.2	4658.4	4624.1	4518.6	4406.5	4261.5	4125.7	4022.8	3893.6	3858.0	3894.9
7.5°	4707.1	4683.4	4583.2	4368.3	4119.1	3842.2	3531.0	3304.2	3118.3	2998.3	3041.8
10°	4761.2	4716.4	4514.6	4149.4	3703.7	3213.3	2771.5	2427.4	2183.5	2083.3	2079.3
12.5°	4852.2	4767.8	4430.3	3864.6	3196.1	2542.1	1963.3	1590.1	1392.4	1264.5	1261.8
15°	4952.4	4828.4	4323.5	3523.1	2605.4	1820.9	1264.5	981.0	853.1	812.2	806.9
17.5°	5075.0	4898.3	4185.0	3102.5	1987.0	1206.5	825.4	743.6	738.4	734.4	734.4
20°	5229.3	4981.4	4007.0	2621.2	1409.5	805.6	701.5	706.7	709.4	704.1	705.4
22.5°	5408.6	5065.8	3794.7	2104.4	953.3	673.8	671.1	677.7	680.4	677.7	679.0
25°	5616.9	5163.4	3536.3	1562.5	688.3	639.5	646.1	655.3	661.9	661.9	661.9
27.5°	5875.4	5282.0	3225.1	1090.4	594.7	603.9	622.3	639.5	648.7	651.4	651.4
30°	6211.6	5429.7	2852.0	747.6	540.6	556.4	590.7	623.7	640.8	643.4	644.8
32.5°	6636.1	5595.8	2419.5	552.5	494.4	506.3	543.2	598.6	631.6	636.8	636.8
35°	7122.7	5788.3	1954.1	481.3	461.5	465.4	494.4	557.7	615.8	630.3	631.6
37.5°	7655.4	5978.2	1486.0	449.6	433.8	433.8	454.9	509.0	577.5	622.3	627.6
40°	8152.5	6092.9	1041.6	424.6	408.7	408.7	427.2	466.8	531.4	598.6	613.1
42.5°	8611.3	6132.5	725.2	400.8	385.0	389.0	404.8	436.4	485.2	552.5	565.6
45°	9083.3	6125.9	528.7	373.1	361.3	373.1	385.0	408.7	444.3	482.6	485.2
47.5°	9439.3	6070.5	419.3	346.8	338.9	354.7	365.2	381.1	400.8	398.2	398.2
50°	9772.9	5936.0	337.5	311.2	316.4	334.9	340.2	345.5	346.8	321.7	319.1
52.5°	10026.1	5726.4	270.3	272.9	294.0	312.5	307.2	299.3	286.1	255.8	250.5
55°	10110.5	5322.9	212.3	225.5	261.1	284.8	265.0	247.9	222.8	197.8	192.5
57.5°	9957.5	4802.1	172.7	175.4	220.2	240.0	217.6	197.8	170.1	149.0	145.0
60°	9633.2	4223.2	142.4	131.9	170.1	187.2	172.7	152.9	127.9	112.1	110.8
62.5°	8989.7	3606.2	117.3	102.8	129.2	143.7	134.5	120.0	98.9	88.3	87.0
65°	7636.9	2884.9	94.9	83.1	100.2	112.1	104.2	93.6	77.8	69.9	68.6
67.5°	5330.8	1950.1	77.8	68.6	79.1	88.3	81.7	76.5	62.0	60.7	62.0
70°	2571.1	940.1	64.6	55.4	62.0	68.6	65.9	62.0	59.3	68.6	79.1
72.5°	737.1	315.1	51.4	46.1	50.1	54.1	56.7	55.4	64.6	83.1	96.3
73°	567.0	254.5	48.8	43.5	47.5	52.7	55.4	54.1	65.9	84.4	96.3
75°	242.6	122.6	36.9	35.6	39.6	46.1	48.8	48.8	65.9	85.7	92.3
77.5°	109.4	65.9	23.7	27.7	34.3	36.9	40.9	40.9	52.7	65.9	65.9
80°	62.0	35.6	18.5	21.1	25.1	25.1	25.1	22.4	23.7	26.4	29.0
82.5°	39.6	23.7	14.5	17.1	15.8	13.2	10.5	10.5	9.2	10.5	13.2
85°	22.4	13.2	13.2	10.5	6.6	5.3	6.6	5.3	1.3	0.0	1.3
87.5°	13.2	7.9	4.0	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)