

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: McGRAW-EDISON

Report Number: P453473

Luminaire Tested: **GALN-SA4C-730-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20730 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

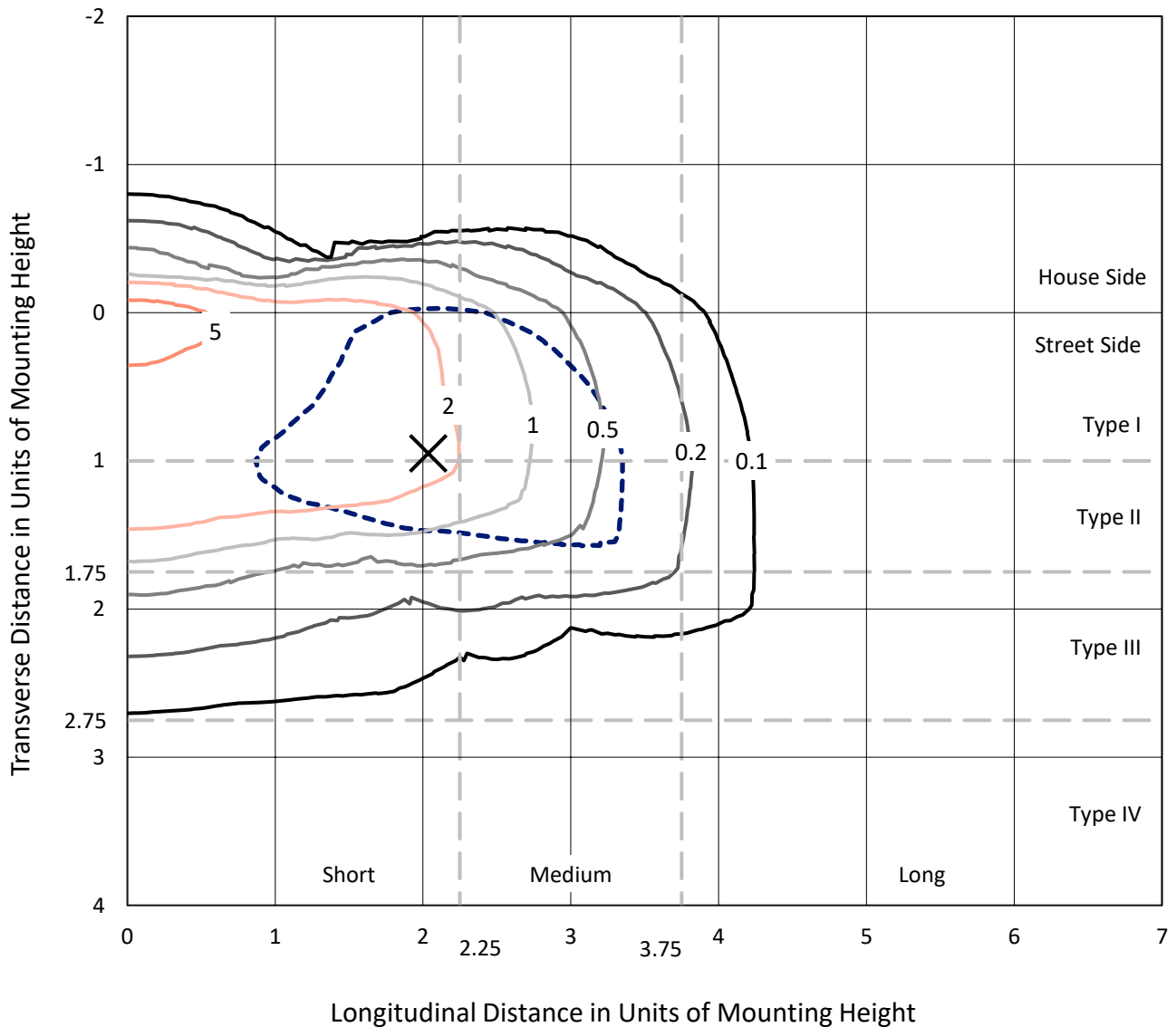
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

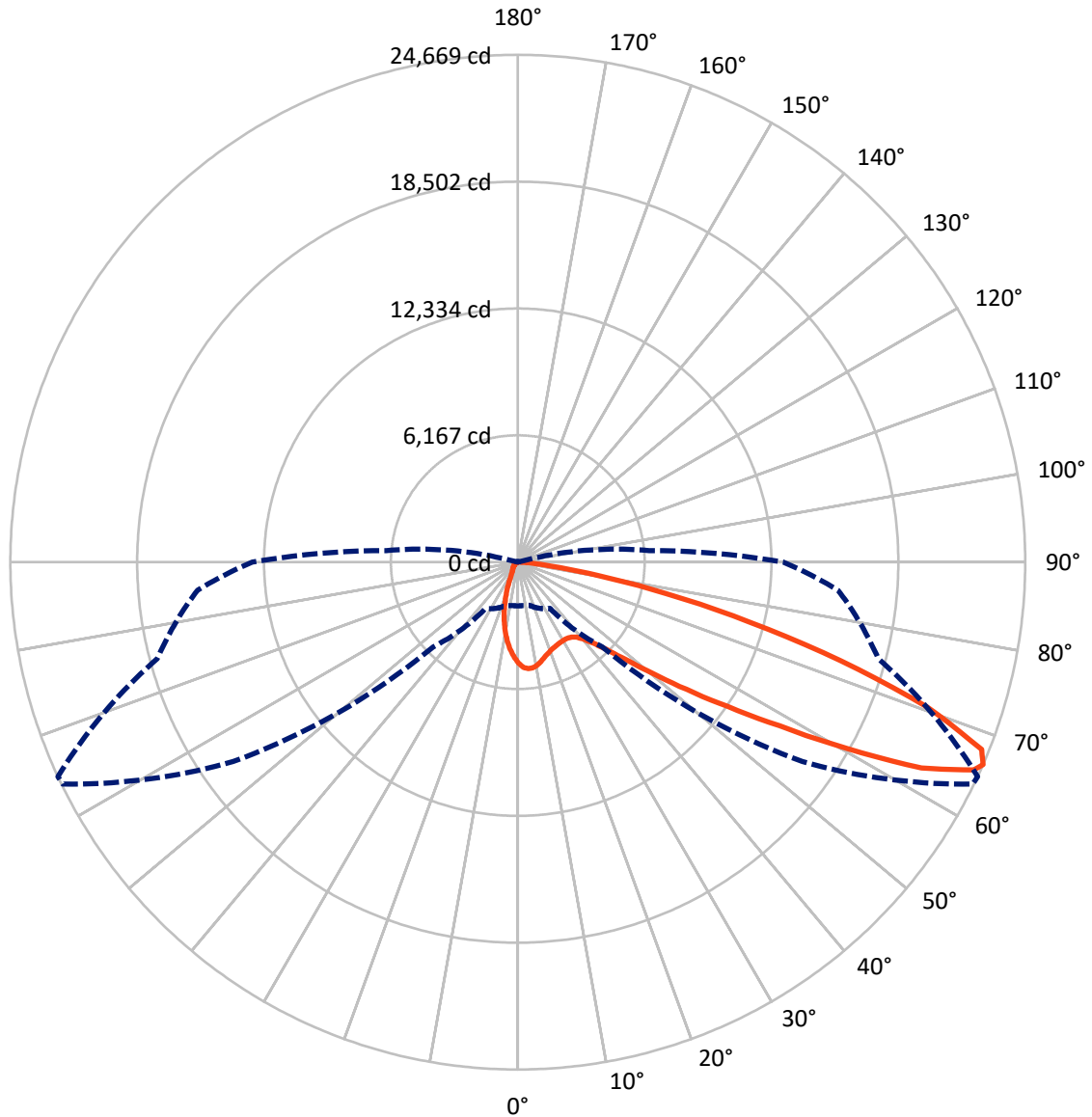
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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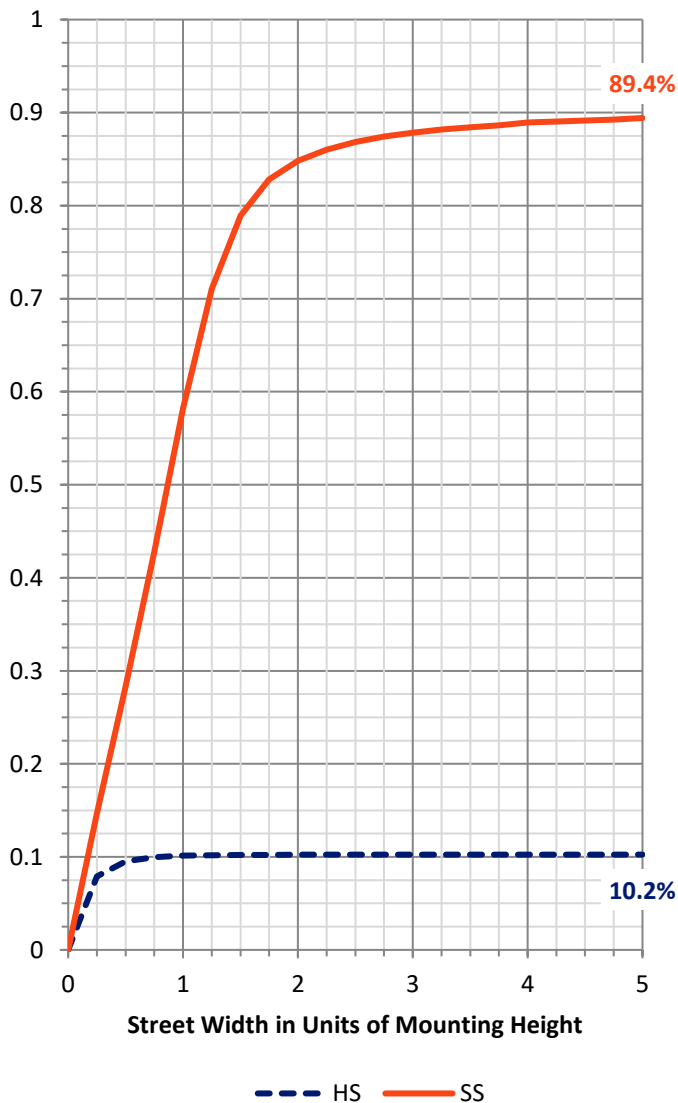
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2143.8	0.0	2143.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	18586.2	0.0	18586.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	20730.0	0.0	20730.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.0	1.9
10°-20°	876.0	4.2
20°-30°	1254.9	6.1
30°-40°	1832.8	8.8
40°-50°	3073.3	14.8
50°-60°	5128.9	24.7
60°-70°	5444.1	26.3
70°-80°	2465.6	11.9
80°-90°	252.3	1.2
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°	20730.0	100.0
0°-180°	20730.0	100.0

Coefficient of Utilization



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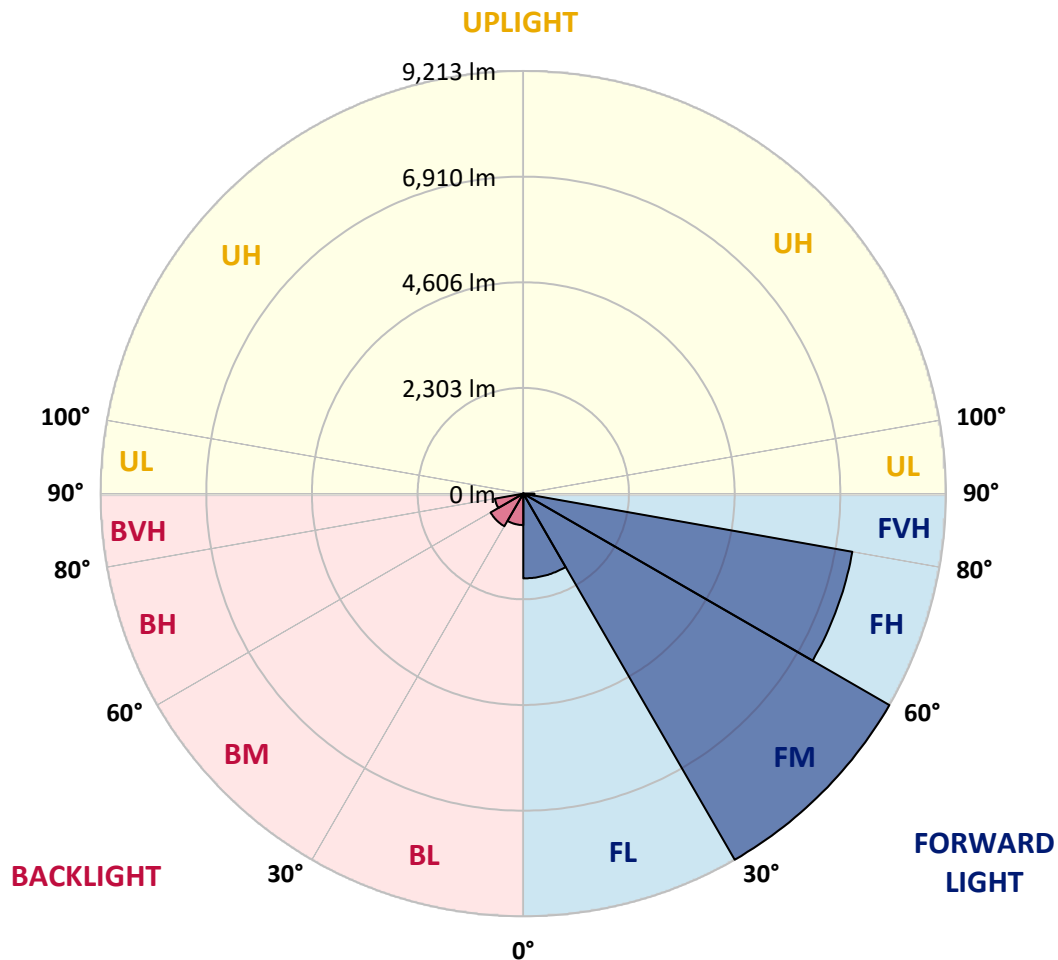
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1847.1	8.9			
FM (30°-60°)	9212.9	44.4			
FH (60°-80°)	7282.0	35.1			G3/7500
FVH (80°-90°)	244.2	1.2			G3/500
BL (0°-30°)	685.8	3.3	B2/1000		
BM (30°-60°)	822.1	4.0	B1/1000		
BH (60°-80°)	627.8	3.0	B2/1000		G2/1000
BVH (80°-90°)	8.0	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4915.8	4915.8	4915.8	4915.8	4915.8	4915.8	4915.8	4915.8	4915.8	4915.8	4915.8
2.5°	5180.5	5186.1	5193.1	5202.9	5209.9	5188.9	5159.5	5125.9	5118.9	5047.5	4960.7
5°	4903.2	4911.6	4973.3	5006.9	5082.5	5151.1	5194.5	5200.1	5197.3	5130.1	4991.5
7.5°	4508.4	4532.2	4592.4	4651.2	4792.6	4922.8	5076.9	5184.7	5191.7	5173.5	5001.3
10°	4187.8	4203.2	4234.0	4350.2	4467.8	4666.6	4882.2	5085.3	5102.1	5174.9	4992.9
12.5°	3937.2	3959.6	3997.4	4087.0	4228.4	4416.0	4661.0	4934.0	4969.1	5148.3	4969.1
15°	3762.1	3773.3	3811.1	3899.4	4036.6	4210.2	4458.0	4775.8	4806.6	5113.3	4964.9
17.5°	3679.5	3692.1	3718.7	3788.7	3902.2	4063.2	4305.4	4648.4	4687.6	5090.9	4980.3
20°	3701.9	3713.1	3714.5	3750.9	3827.9	3963.8	4193.4	4529.4	4579.8	5076.9	5005.5
22.5°	3829.3	3830.7	3813.9	3797.1	3823.7	3921.8	4124.8	4453.8	4505.6	5074.1	5034.9
25°	4019.8	4024.0	3996.0	3937.2	3884.0	3934.4	4109.4	4404.8	4451.0	5067.1	5053.1
27.5°	4283.0	4281.6	4273.2	4175.2	4024.0	3990.4	4122.0	4378.2	4417.4	5047.5	5060.1
30°	4651.2	4640.0	4621.8	4511.2	4280.2	4126.2	4175.2	4361.4	4397.8	5019.5	5041.9
32.5°	5013.9	5055.9	5053.1	4948.1	4659.6	4368.4	4285.8	4383.8	4410.4	5001.3	5015.3
35°	5436.7	5435.3	5543.1	5503.9	5166.5	4677.8	4474.8	4458.0	4479.0	5013.9	5002.7
37.5°	5828.7	5865.1	6033.1	6073.8	5765.7	5114.7	4742.2	4617.6	4624.6	5099.3	5033.5
40°	6317.4	6387.4	6638.0	6773.8	6502.2	5762.9	5137.1	4910.2	4911.6	5309.3	5149.7
42.5°	6947.4	7058.0	7291.9	7518.7	7373.1	6530.2	5729.3	5373.7	5370.9	5678.9	5415.7
45°	7713.3	7790.3	8056.3	8416.2	8323.8	7601.3	6591.8	6092.0	6055.6	6285.2	5887.5
47.5°	8374.2	8479.2	8749.4	9159.6	9579.7	8909.0	7622.3	7079.0	7055.2	7249.9	6696.8
50°	8662.6	8755.0	9039.2	9614.7	10632.6	10625.6	9156.8	8519.8	8479.2	8584.2	7948.5
52.5°	8346.2	8433.0	8720.0	9436.9	11128.2	12717.4	11380.2	10327.3	10278.3	10143.9	9443.9
55°	7262.5	7333.9	7758.1	8581.4	10937.8	14111.9	14443.7	12560.5	12370.1	11847.9	11136.6
57.5°	5782.5	5746.1	6009.3	6965.6	9820.5	14579.5	17588.4	15342.6	15002.4	13320.8	12568.9
60°	4007.2	4119.2	4225.6	4855.6	7384.3	13768.9	19544.4	18840.1	18392.1	14769.9	13941.1
62.5°	2945.9	3020.1	3090.1	3381.3	4642.8	10993.8	19890.2	22432.8	22035.2	16308.7	15250.2
65°	2329.8	2335.4	2363.4	2650.4	3059.3	7149.1	18228.3	24458.8	24356.6	17790.0	15780.8
66°	2122.6	2124.0	2167.4	2475.4	2745.6	5821.7	16896.7	24612.8	24668.8	18145.7	15625.4
67.5°	1855.2	1849.6	1912.6	2224.8	2500.6	4197.6	14513.7	23988.4	24320.2	18418.7	15066.8
70°	1437.9	1430.9	1507.9	1866.4	2303.2	2800.3	9646.9	20597.3	21132.1	17860.0	13330.6
72.5°	957.7	963.3	1094.9	1472.9	2198.2	2465.6	5803.5	15668.8	16424.9	14748.9	10487.0
75°	558.7	568.5	718.3	1094.9	1908.4	2350.8	3284.7	11173.0	11656.1	10184.5	6533.0
77.5°	292.6	296.8	401.8	722.5	1463.1	2182.8	2188.4	7137.8	7364.7	4949.5	2586.0
80°	155.4	151.2	215.6	435.4	1006.7	1916.8	1775.4	3778.9	3928.8	1470.1	653.9
82.5°	58.8	64.4	114.8	285.6	595.1	1376.3	1528.9	1670.4	1618.5	323.4	274.4
85°	11.2	14.0	49.0	169.4	299.6	575.5	1127.1	819.1	758.9	121.8	158.2
87.5°	1.4	2.8	14.0	40.6	43.4	194.6	333.2	226.8	196.0	44.8	65.8
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°	4915.8	4915.8	4915.8	4915.8	4915.8	4915.8	4915.8	4915.8	4915.8	4915.8	4915.8
2.5°	4918.6	4880.8	4754.8	4630.2	4502.8	4388.0	4309.6	4182.2	4150.0	4103.8	4077.2
5°	4908.8	4820.6	4578.4	4313.8	4067.4	3801.3	3598.3	3402.3	3297.3	3244.1	3224.5
7.5°	4880.8	4740.8	4362.8	3948.4	3553.5	3155.9	2810.1	2546.8	2377.4	2261.2	2182.8
10°	4824.8	4631.6	4112.2	3542.3	2945.9	2420.8	1982.6	1649.4	1391.7	1310.5	1313.3
12.5°	4767.4	4509.8	3832.1	3091.5	2352.2	1690.0	1225.1	961.9	838.7	798.1	789.7
15°	4714.2	4393.6	3557.7	2654.6	1751.6	1094.9	789.7	697.3	663.7	656.7	655.3
17.5°	4686.2	4285.8	3265.1	2154.8	1222.3	743.5	632.9	607.7	597.9	590.9	588.1
20°	4662.4	4192.0	2985.1	1687.2	835.9	609.1	567.1	543.2	526.4	519.4	515.2
22.5°	4645.6	4095.4	2695.2	1306.3	639.9	540.4	502.6	471.8	448.0	439.6	434.0
25°	4620.4	3989.0	2402.6	954.9	539.0	480.2	436.8	400.4	369.6	354.2	351.4
27.5°	4584.0	3868.6	2082.0	707.1	481.6	427.0	373.8	329.0	298.2	281.4	282.8
30°	4525.2	3742.5	1761.4	561.5	435.4	372.4	315.0	271.6	242.2	229.6	228.2
32.5°	4455.2	3589.9	1467.3	481.6	393.4	323.4	263.2	225.4	203.0	193.2	191.8
35°	4389.4	3435.9	1167.7	432.6	350.0	278.6	221.2	189.0	172.2	163.8	165.2
37.5°	4353.0	3298.7	910.1	393.4	315.0	239.4	190.4	162.4	147.0	140.0	138.6
40°	4376.8	3186.7	723.9	358.4	275.8	205.8	163.8	140.0	124.6	114.8	114.8
42.5°	4488.8	3137.7	583.9	324.8	239.4	177.8	142.8	120.4	103.6	93.8	95.2
45°	4830.4	3189.5	488.6	294.0	205.8	154.0	123.2	99.4	84.0	77.0	75.6
47.5°	5397.5	3384.1	422.8	261.8	176.4	131.6	103.6	82.6	67.2	61.6	60.2
50°	6388.8	3785.9	373.8	229.6	149.8	112.0	85.4	65.8	53.2	47.6	47.6
52.5°	7752.5	4662.4	338.8	193.2	126.0	95.2	70.0	53.2	42.0	37.8	36.4
55°	9177.8	5586.5	320.6	162.4	105.0	78.4	56.0	42.0	32.2	28.0	26.6
57.5°	10548.6	6311.8	299.6	131.6	84.0	60.2	43.4	32.2	22.4	19.6	18.2
60°	11863.3	6898.4	254.8	105.0	65.8	43.4	32.2	22.4	15.4	12.6	12.6
62.5°	13039.4	7240.1	200.2	84.0	50.4	30.8	21.0	16.8	11.2	8.4	8.4
65°	13176.6	6796.2	151.2	64.4	36.4	19.6	12.6	12.6	8.4	5.6	5.6
66°	12900.8	6419.6	133.0	58.8	32.2	16.8	11.2	9.8	7.0	4.2	4.2
67.5°	12284.7	5776.9	114.8	50.4	26.6	12.6	8.4	8.4	5.6	2.8	2.8
70°	10614.4	4718.4	91.0	37.8	19.6	9.8	5.6	5.6	4.2	2.8	2.8
72.5°	8089.9	3522.7	74.2	28.0	14.0	7.0	4.2	4.2	4.2	2.8	2.8
75°	4879.4	1897.2	57.4	21.0	12.6	5.6	2.8	4.2	5.6	4.2	2.8
77.5°	1797.8	645.5	44.8	16.8	9.8	5.6	2.8	2.8	5.6	4.2	4.2
80°	441.0	168.0	32.2	14.0	9.8	5.6	2.8	2.8	5.6	5.6	5.6
82.5°	204.4	71.4	22.4	12.6	9.8	5.6	2.8	2.8	4.2	5.6	5.6
85°	117.6	33.6	18.2	14.0	9.8	5.6	2.8	2.8	4.2	5.6	5.6
87.5°	47.6	16.8	16.8	14.0	11.2	7.0	2.8	2.8	2.8	4.2	4.2
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)