

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: P452808

Luminaire Tested: **GALN-SA3D-740-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19103 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

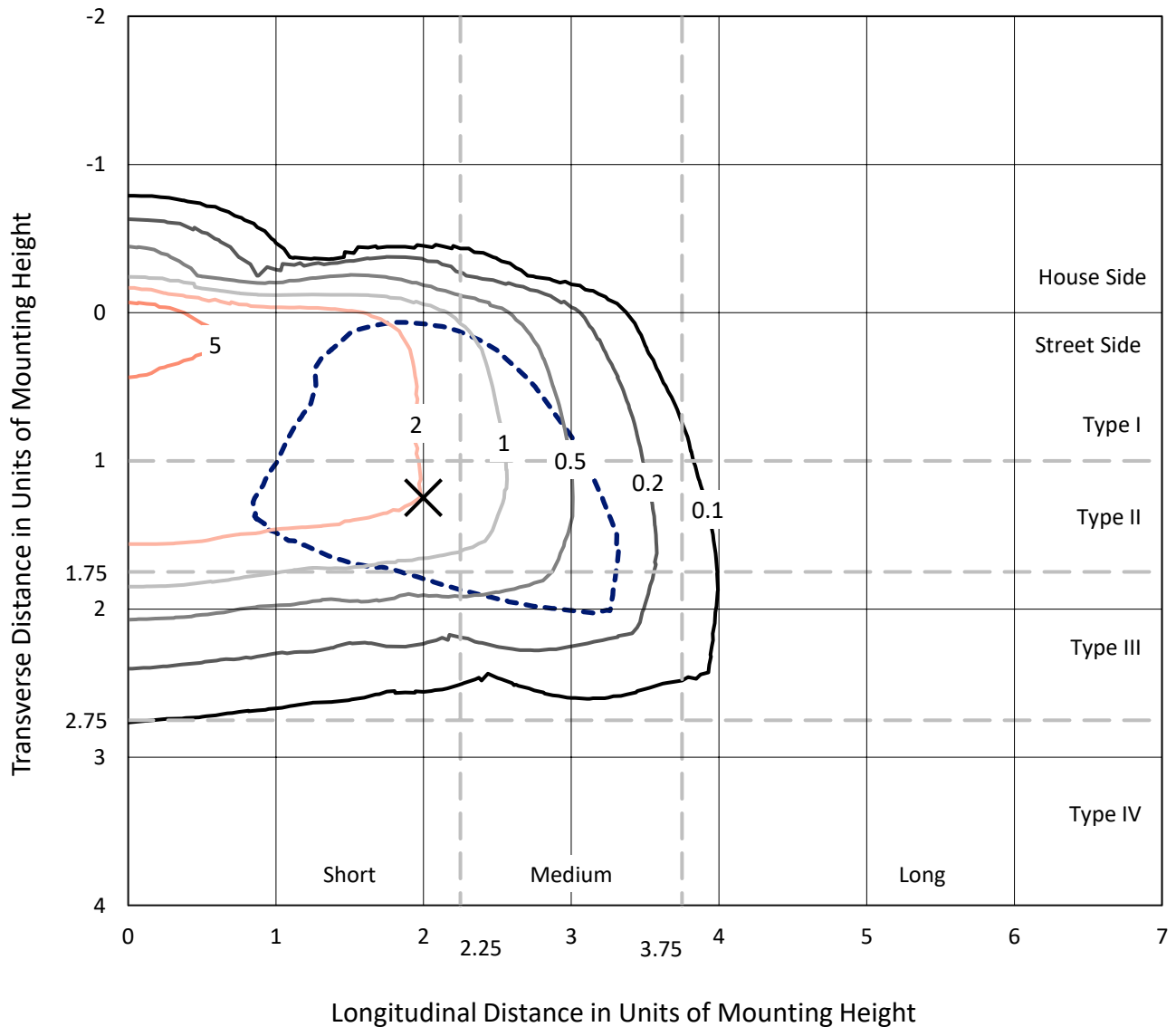
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

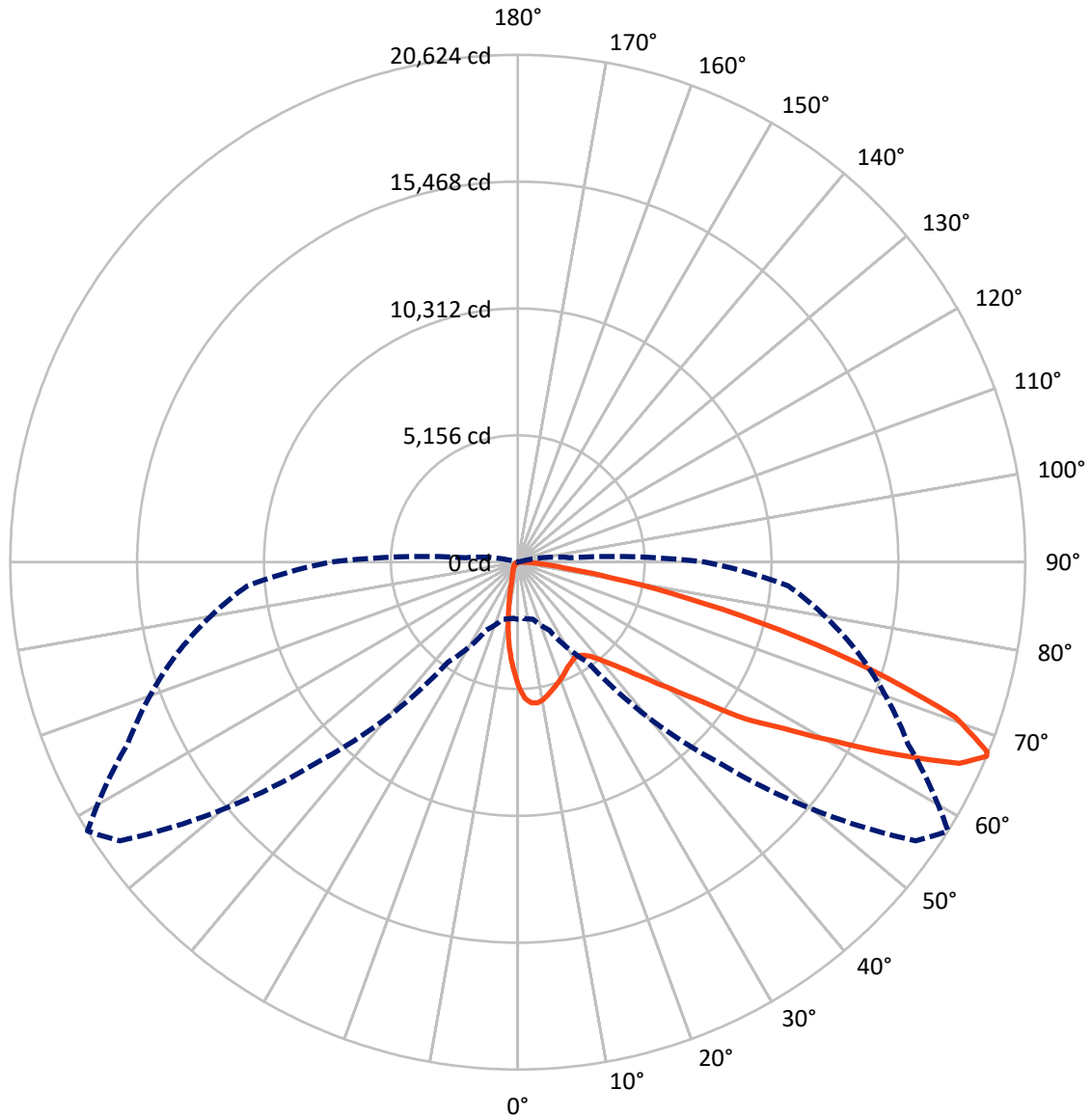
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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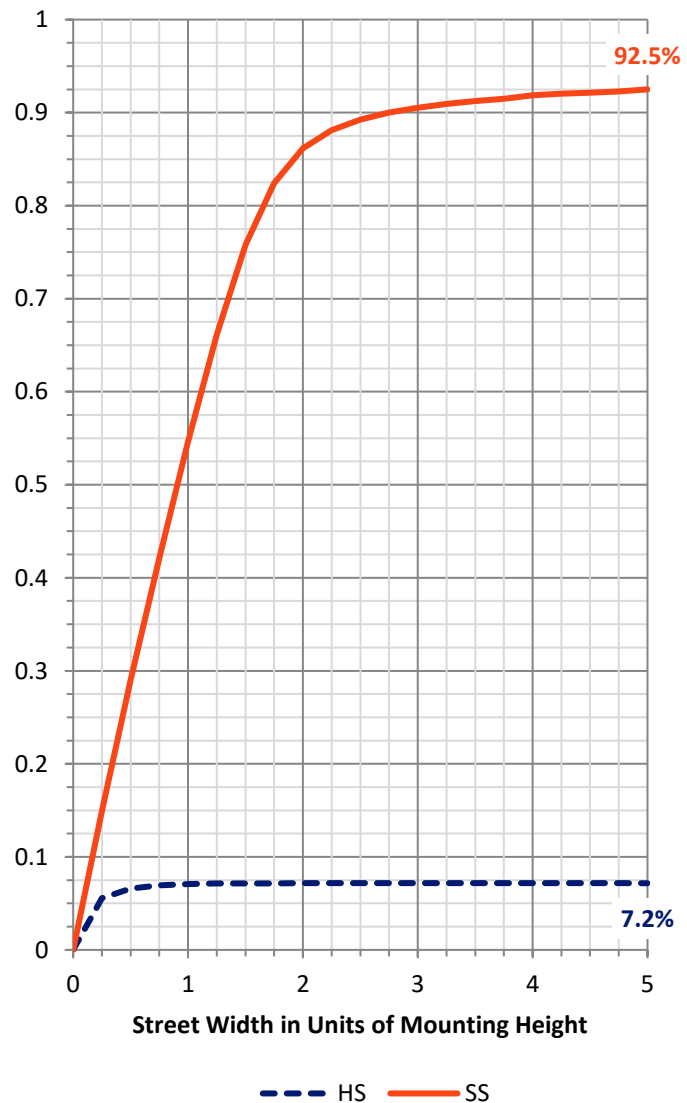
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1378.6	0.0	1378.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	17724.4	0.0	17724.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	19103.0	0.0	19103.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.9	2.2
10°-20°	887.5	4.6
20°-30°	1202.7	6.3
30°-40°	1668.0	8.7
40°-50°	2660.3	13.9
50°-60°	4598.5	24.1
60°-70°	5252.9	27.5
70°-80°	2190.0	11.5
80°-90°	232.2	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°	19103.0	100.0
0°-180°	19103.0	100.0



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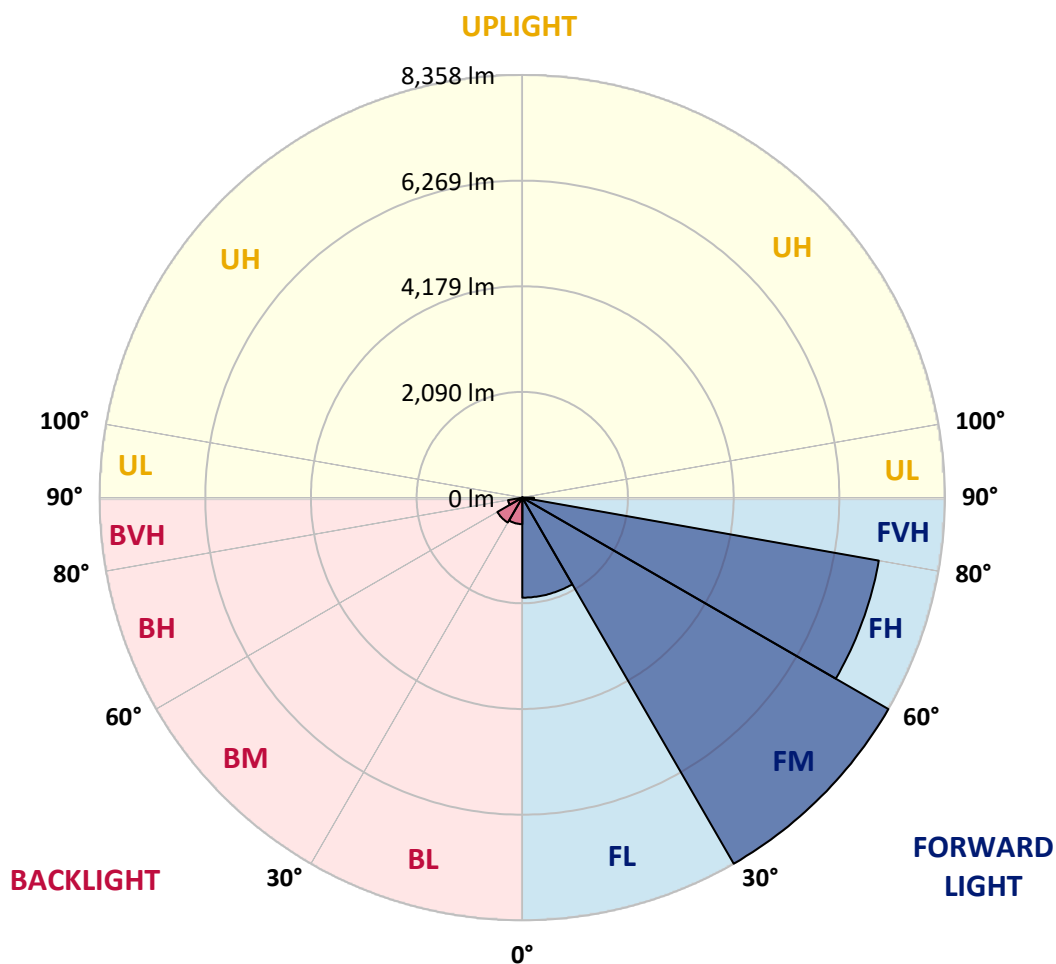
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1977.6	10.4			
FM (30°-60°)	8358.4	43.8			
FH (60°-80°)	7157.9	37.5			G3/7500
FVH (80°-90°)	230.5	1.2			G3/500
BL (0°-30°)	523.5	2.7	B2/1000		
BM (30°-60°)	568.4	3.0	B1/1000		
BH (60°-80°)	285.0	1.5	B1/500		G1/500
BVH (80°-90°)	1.7	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5064.0	5064.0	5064.0	5064.0	5064.0	5064.0	5064.0	5064.0	5064.0	5064.0	5064.0
2.5°	5877.2	5886.1	5852.9	5826.1	5757.2	5683.2	5584.9	5532.5	5443.2	5288.7	5117.6
5°	6015.1	6026.5	6021.4	6015.1	5988.2	5916.8	5791.7	5745.7	5614.2	5362.7	5053.8
7.5°	5708.7	5750.8	5755.9	5805.7	5852.9	5859.3	5812.1	5777.6	5656.3	5361.5	4940.2
10°	5302.7	5330.8	5371.7	5429.1	5542.7	5637.2	5683.2	5678.0	5607.8	5321.9	4807.4
12.5°	4893.0	4908.3	4970.8	5069.1	5208.3	5369.1	5491.7	5515.9	5517.2	5274.7	4696.4
15°	4540.6	4534.3	4582.8	4696.4	4891.7	5093.4	5313.0	5351.3	5412.5	5228.7	4593.0
17.5°	4239.4	4272.6	4280.2	4405.3	4585.3	4847.0	5126.6	5194.2	5316.8	5189.1	4507.5
20°	4053.0	4070.9	4087.5	4157.7	4319.8	4595.5	4951.7	5044.9	5227.4	5153.4	4411.7
22.5°	3998.1	4009.6	3995.6	4017.3	4132.2	4377.3	4761.5	4885.3	5141.9	5120.2	4333.8
25°	4040.2	4051.7	4018.5	3993.0	4032.6	4199.8	4577.7	4728.3	5073.0	5113.8	4275.1
27.5°	4142.4	4164.1	4118.1	4072.2	4049.2	4104.1	4433.4	4608.3	5025.7	5144.5	4248.3
30°	4301.9	4314.7	4280.2	4224.1	4171.7	4116.8	4358.1	4525.3	5013.0	5215.9	4245.8
32.5°	4475.5	4502.4	4483.2	4446.2	4378.5	4248.3	4379.8	4527.9	5043.6	5319.3	4277.7
35°	4690.0	4720.6	4738.5	4730.9	4644.0	4481.9	4517.7	4642.8	5125.3	5509.5	4364.5
37.5°	4900.6	4927.4	5028.3	5062.8	4986.2	4833.0	4785.7	4868.7	5305.3	5758.5	4521.5
40°	5141.9	5177.6	5319.3	5450.8	5413.8	5253.0	5166.2	5235.1	5581.0	6133.8	4818.9
42.5°	5373.0	5436.8	5652.5	5884.8	5919.3	5739.3	5681.9	5704.9	5989.5	6673.7	5233.8
45°	5701.0	5761.0	6039.3	6354.6	6516.7	6376.3	6317.6	6313.8	6549.9	7433.3	5906.5
47.5°	6174.6	6228.2	6556.3	6867.8	7156.3	7175.4	7064.4	7102.7	7254.6	8321.8	6731.2
50°	6755.4	6881.8	7097.6	7421.8	7807.3	8118.8	8153.3	8102.2	8232.4	9350.6	7721.8
52.5°	7599.2	7647.7	7845.6	8112.4	8564.3	9092.8	9502.6	9432.3	9391.5	10331.0	8722.6
55°	8228.6	8293.7	8601.3	8967.7	9630.2	10327.2	11215.7	11239.9	10724.2	11273.1	9701.7
57.5°	8038.4	8137.9	8603.9	9340.4	10797.0	12071.0	12732.2	12748.8	11957.3	12188.4	10807.2
60°	7061.8	7109.0	7776.7	8759.6	10896.5	13960.2	14883.2	14749.1	13212.2	13212.2	11783.7
62.5°	5007.9	5081.9	5623.2	7069.5	9840.8	14616.4	17459.2	17182.2	14940.6	14191.3	12365.8
65°	3200.3	3128.8	3487.5	4462.8	7331.2	13647.5	19702.1	19718.7	16566.9	14583.2	12048.0
67°	2318.2	2290.1	2393.5	3050.9	4970.8	11472.3	19749.3	20623.8	17501.3	14335.5	11031.8
67.5°	2120.3	2142.0	2217.3	2752.2	4516.4	10439.5	19534.9	20570.1	17712.0	14186.2	10664.2
70°	1607.2	1570.1	1651.8	1946.7	2707.5	6585.7	16804.4	18866.0	17450.3	12704.1	8520.9
72.5°	1182.1	1178.2	1291.9	1591.8	2084.6	3507.9	12614.8	15127.0	14256.4	9673.6	5365.3
75°	797.8	833.6	1014.8	1330.2	1889.3	2274.8	8600.0	10974.4	9897.0	5492.9	2193.1
77.5°	454.4	457.0	653.6	1068.5	1696.5	1830.6	5095.9	6991.6	5238.9	1826.7	651.0
80°	196.6	215.7	324.2	776.1	1406.7	1621.2	2922.0	3842.4	2119.1	386.8	210.6
82.5°	72.8	85.5	143.0	477.4	1026.3	1335.3	1765.5	1834.4	718.7	136.6	131.5
85°	0.0	2.6	52.3	223.4	534.9	596.1	1179.5	1087.6	317.9	65.1	85.5
87.5°	0.0	0.0	0.0	23.0	70.2	222.1	366.4	408.5	76.6	23.0	20.4
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°	5064.0	5064.0	5064.0	5064.0	5064.0	5064.0	5064.0	5064.0	5064.0	5064.0	5064.0
2.5°	5025.7	4942.8	4734.7	4526.6	4372.1	4243.2	4049.2	3943.2	3887.1	3804.1	3809.2
5°	4899.4	4730.9	4364.5	3985.4	3679.0	3380.3	3022.8	2878.6	2757.3	2688.4	2642.4
7.5°	4711.7	4462.8	3920.3	3414.7	2943.7	2421.6	2029.7	1768.0	1591.8	1526.7	1464.2
10°	4506.2	4175.6	3469.6	2768.8	2115.2	1576.5	1244.6	1004.6	919.1	840.0	847.6
12.5°	4316.0	3913.9	3056.0	2185.4	1482.1	1002.1	781.2	682.9	654.9	645.9	645.9
15°	4160.2	3663.7	2611.8	1642.9	1016.1	720.0	625.5	598.7	588.5	585.9	585.9
17.5°	3994.3	3426.2	2211.0	1214.0	739.1	602.5	570.6	552.7	548.9	546.4	546.4
20°	3846.2	3187.5	1830.6	903.8	597.4	542.5	522.1	510.6	506.8	504.2	505.5
22.5°	3705.8	2975.6	1473.1	682.9	525.9	494.0	473.6	462.1	454.4	448.1	449.3
25°	3580.7	2771.4	1184.6	559.1	473.6	445.5	425.1	408.5	391.9	384.2	383.0
27.5°	3492.6	2592.7	922.9	478.7	426.4	395.7	370.2	349.8	328.1	316.6	314.0
30°	3419.8	2411.4	730.2	422.5	379.1	349.8	317.9	288.5	265.5	254.0	248.9
32.5°	3372.6	2239.0	575.7	376.6	339.6	303.8	268.1	238.7	213.2	201.7	199.1
35°	3365.0	2094.8	471.0	338.3	303.8	265.5	228.5	196.6	174.9	163.4	160.8
37.5°	3419.8	1983.7	394.5	307.6	274.5	232.3	191.5	162.1	143.0	134.0	132.8
40°	3566.6	1913.5	342.1	282.1	247.6	201.7	163.4	137.9	118.7	109.8	109.8
42.5°	3846.2	1916.1	307.6	257.9	220.8	172.3	139.1	114.9	98.3	90.6	88.1
45°	4282.8	2002.9	278.3	233.6	195.3	149.4	118.7	94.5	77.9	71.5	71.5
47.5°	4867.4	2175.2	252.8	209.4	172.3	127.7	100.8	76.6	62.6	56.2	56.2
50°	5632.1	2452.2	231.1	188.9	153.2	109.8	81.7	62.6	48.5	43.4	42.1
52.5°	6431.2	2794.3	205.5	171.1	131.5	93.2	66.4	48.5	37.0	33.2	31.9
55°	7313.3	3128.8	181.3	153.2	107.2	77.9	52.3	38.3	26.8	23.0	23.0
57.5°	8203.0	3456.9	151.9	127.7	84.3	57.4	40.8	28.1	17.9	14.0	14.0
60°	8956.2	3562.8	128.9	103.4	63.8	40.8	29.4	17.9	10.2	6.4	6.4
62.5°	9059.6	3205.4	108.5	79.1	46.0	28.1	15.3	10.2	3.8	2.6	2.6
65°	8497.9	2604.1	90.6	60.0	30.6	14.0	6.4	3.8	1.3	0.0	0.0
67°	7614.6	2111.4	74.0	44.7	21.7	8.9	3.8	1.3	0.0	0.0	0.0
67.5°	7388.6	2013.1	71.5	42.1	19.1	7.7	2.6	1.3	0.0	0.0	0.0
70°	5798.0	1507.6	51.1	25.5	11.5	5.1	0.0	0.0	0.0	0.0	0.0
72.5°	3603.7	852.7	37.0	15.3	7.7	2.6	0.0	0.0	0.0	0.0	0.0
75°	1362.1	298.7	25.5	10.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	423.8	113.6	15.3	7.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	143.0	43.4	10.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	88.1	17.9	6.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	54.9	7.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	2.6	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)