

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: P454664

Luminaire Tested: **GALN-SA5D-740-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454664
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-SA5D-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 32047 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

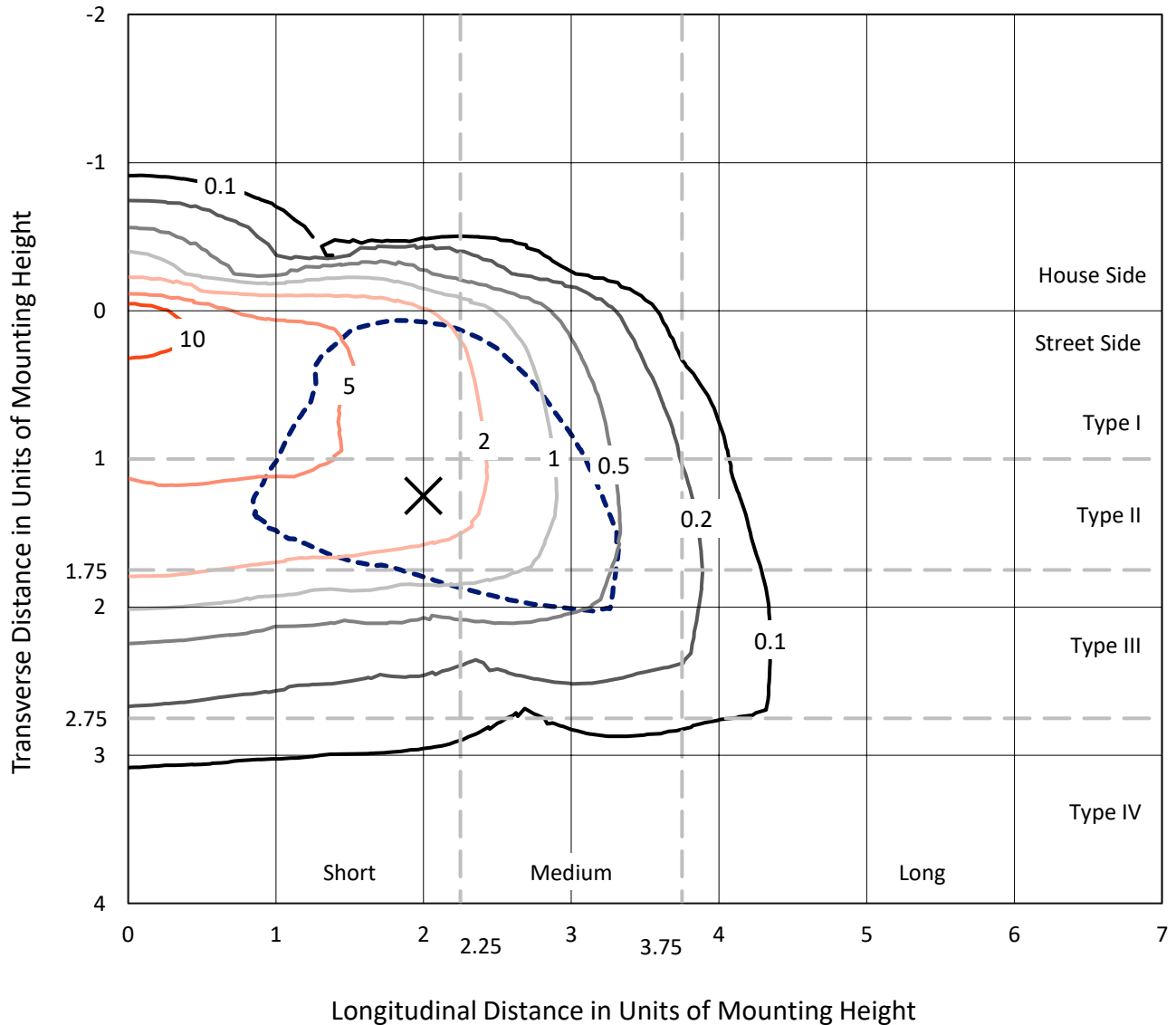
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

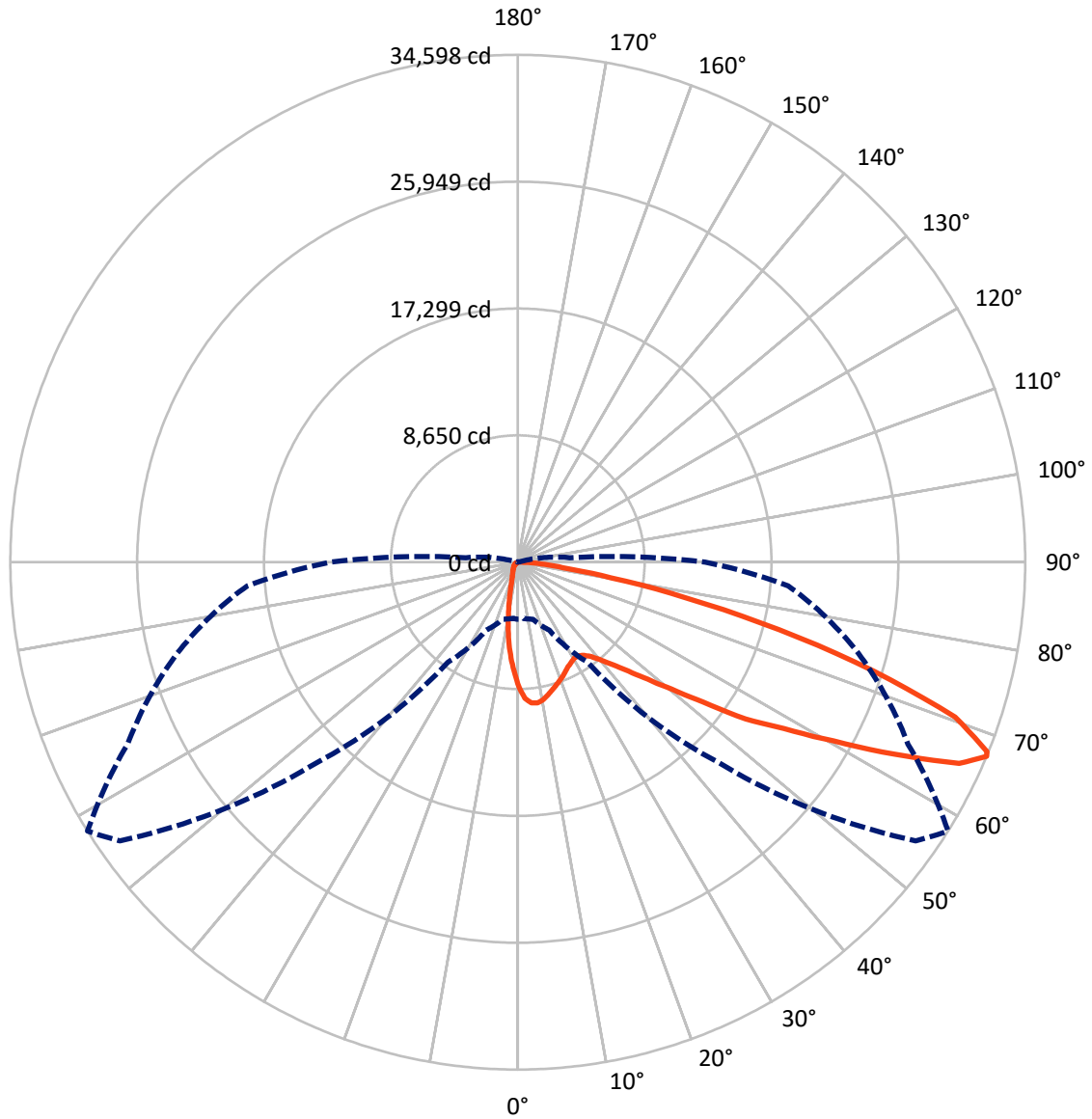
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 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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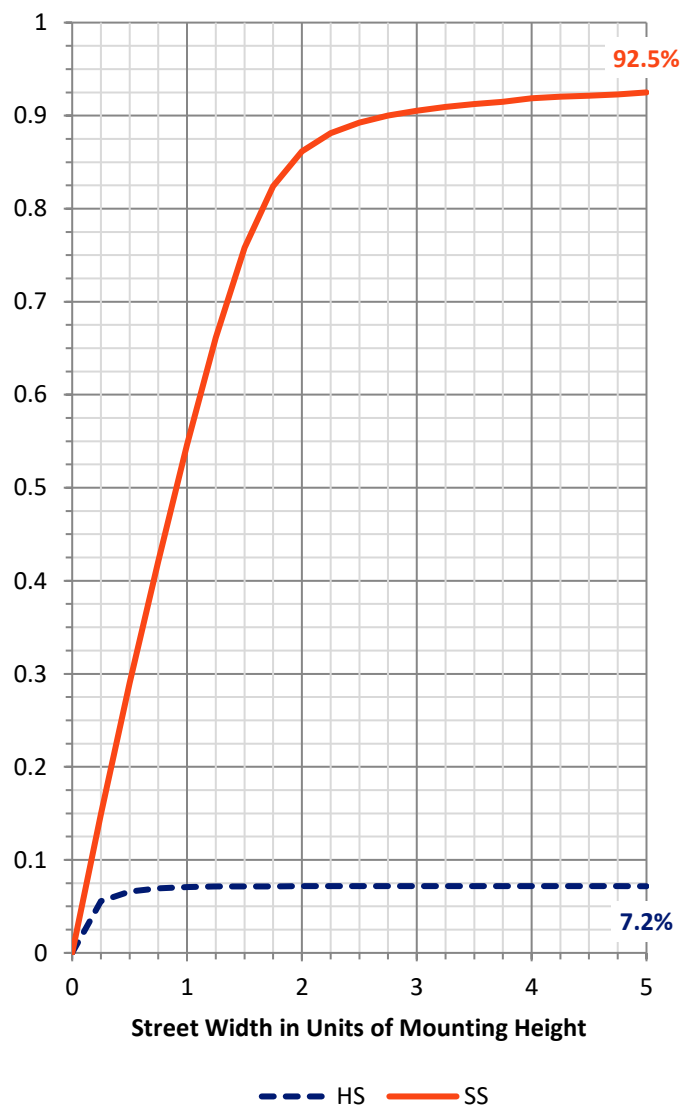
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2312.7	0.0	2312.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	29734.3	0.0	29734.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	32047.0	0.0	32047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	689.4	2.2
10°-20°	1488.9	4.6
20°-30°	2017.6	6.3
30°-40°	2798.2	8.7
40°-50°	4462.8	13.9
50°-60°	7714.4	24.1
60°-70°	8812.3	27.5
70°-80°	3673.9	11.5
80°-90°	389.5	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°	32047.0	100.0
0°-180°	32047.0	100.0

Coefficient of Utilization



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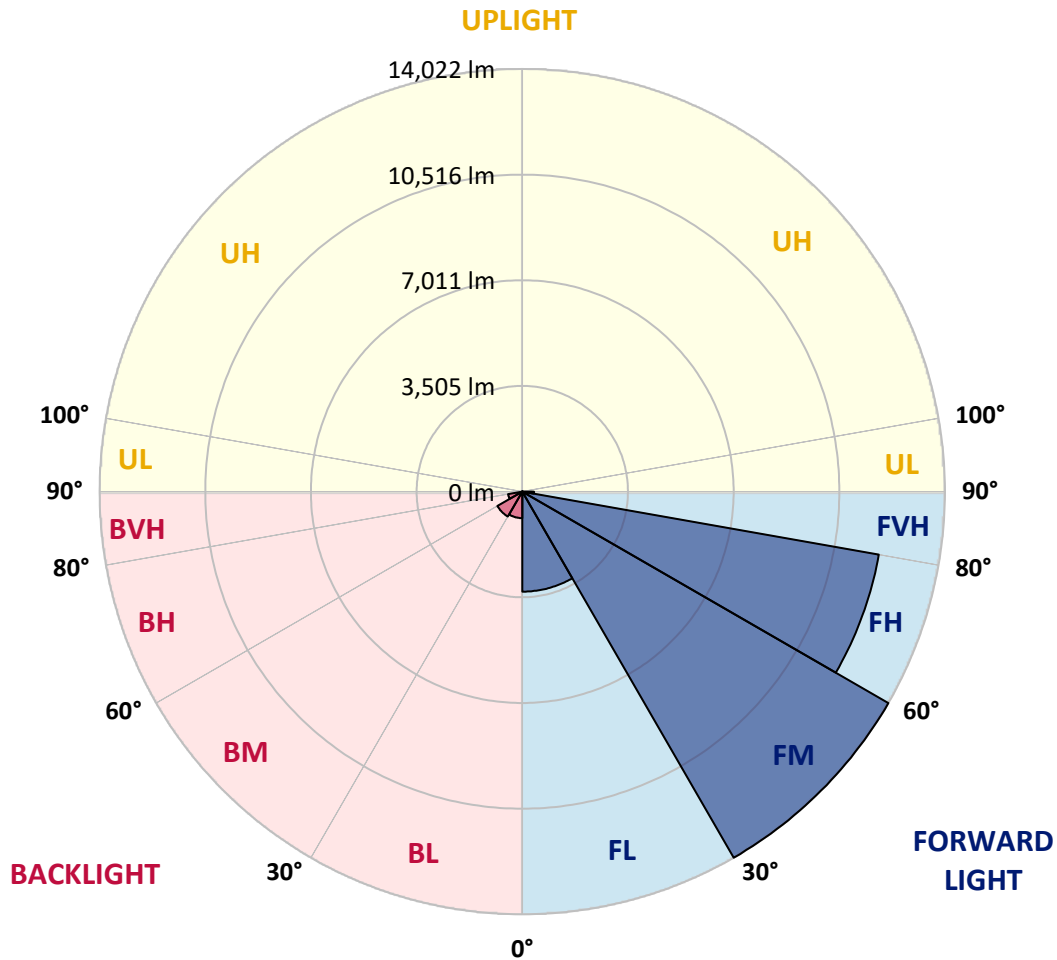
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3317.6	10.4			
FM (30°-60°)	14021.9	43.8			
FH (60°-80°)	12008.1	37.5			G5
FVH (80°-90°)	386.7	1.2			G3/500
BL (0°-30°)	878.2	2.7	B2/1000		
BM (30°-60°)	953.6	3.0	B1/1000		
BH (60°-80°)	478.1	1.5	B1/500		G1/500
BVH (80°-90°)	2.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8495.4	8495.4	8495.4	8495.4	8495.4	8495.4	8495.4	8495.4	8495.4	8495.4	8495.4
2.5°	9859.5	9874.5	9818.8	9773.8	9658.2	9534.0	9369.1	9281.3	9131.4	8872.3	8585.3
5°	10090.8	10110.1	10101.5	10090.8	10045.8	9925.9	9716.0	9638.9	9418.4	8996.5	8478.2
7.5°	9576.8	9647.5	9656.1	9739.6	9818.8	9829.5	9750.3	9692.5	9489.0	8994.3	8287.6
10°	8895.8	8942.9	9011.5	9107.8	9298.4	9456.9	9534.0	9525.4	9407.6	8928.0	8064.9
12.5°	8208.4	8234.1	8339.0	8503.9	8737.4	9007.2	9212.8	9253.5	9255.6	8848.7	7878.6
15°	7617.3	7606.6	7688.0	7878.6	8206.3	8544.6	8913.0	8977.2	9080.0	8771.6	7705.1
17.5°	7112.0	7167.6	7180.5	7390.3	7692.3	8131.3	8600.3	8713.8	8919.4	8705.2	7561.7
20°	6799.3	6829.3	6857.1	6974.9	7246.9	7709.4	8306.9	8463.2	8769.5	8645.3	7401.1
22.5°	6707.2	6726.5	6702.9	6739.3	6932.1	7343.2	7987.8	8195.6	8626.0	8589.6	7270.4
25°	6777.9	6797.1	6741.5	6698.6	6765.0	7045.6	7679.5	7932.1	8510.4	8578.9	7171.9
27.5°	6949.2	6985.6	6908.5	6831.4	6792.9	6885.0	7437.5	7730.8	8431.1	8630.3	7126.9
30°	7216.9	7238.3	7180.5	7086.3	6998.5	6906.4	7311.1	7591.6	8409.7	8750.2	7122.7
32.5°	7508.1	7553.1	7521.0	7458.9	7345.4	7126.9	7347.5	7595.9	8461.1	8923.7	7176.2
35°	7867.9	7919.3	7949.3	7936.4	7790.8	7518.8	7578.8	7788.7	8598.2	9242.8	7321.8
37.5°	8221.3	8266.2	8435.4	8493.2	8364.7	8107.8	8028.5	8167.7	8900.1	9660.3	7585.2
40°	8626.0	8686.0	8923.7	9144.2	9082.1	8812.3	8666.7	8782.3	9362.7	10289.9	8084.2
42.5°	9013.6	9120.7	9482.6	9872.4	9930.2	9628.2	9531.9	9570.4	10048.0	11195.8	8780.2
45°	9564.0	9664.6	10131.5	10660.4	10932.4	10696.8	10598.3	10591.9	10988.1	12470.0	9908.8
47.5°	10358.5	10448.4	10998.8	11521.3	12005.3	12037.4	11851.1	11915.4	12170.2	13960.5	11292.2
50°	11332.9	11544.9	11906.8	12450.7	13097.5	13620.0	13677.8	13592.2	13810.6	15686.6	12954.0
52.5°	12748.4	12829.8	13161.7	13609.3	14367.4	15254.0	15941.4	15823.6	15755.1	17331.2	14632.9
55°	13804.2	13913.4	14429.5	15044.1	16155.5	17324.8	18815.3	18856.0	17990.8	18911.7	16275.5
57.5°	13485.1	13652.1	14433.8	15669.4	18112.9	20250.1	21359.4	21387.2	20059.5	20447.1	18130.0
60°	11846.8	11926.1	13046.1	14695.0	18279.9	23419.5	24967.9	24743.0	22164.6	22164.6	19768.3
62.5°	8401.1	8525.3	9433.3	11859.7	16508.9	24520.3	29289.4	28824.7	25064.2	23807.2	20744.8
65°	5368.8	5248.8	5850.6	7486.7	12298.7	22894.9	33052.0	33079.9	27792.5	24464.6	20211.6
67°	3889.0	3841.9	4015.3	5118.2	8339.0	19245.7	33131.3	34598.2	29360.1	24049.1	18506.9
67.5°	3557.0	3593.5	3719.8	4617.1	7576.7	17513.3	32771.5	34508.3	29713.4	23798.6	17890.2
70°	2696.2	2634.1	2771.1	3265.8	4542.1	11048.0	28190.8	31649.4	29274.4	21312.3	14294.6
72.5°	1983.0	1976.6	2167.2	2670.5	3497.1	5884.9	21162.4	25376.9	23916.4	16228.4	9000.8
75°	1338.4	1398.4	1702.5	2231.5	3169.4	3816.2	14427.3	18410.6	16603.1	9214.9	3679.1
77.5°	762.4	766.7	1096.5	1792.4	2846.1	3070.9	8548.9	11729.0	8788.8	3064.5	1092.2
80°	329.8	361.9	543.9	1302.0	2359.9	2719.7	4901.9	6445.9	3554.9	648.9	353.3
82.5°	122.1	143.5	239.8	800.9	1721.8	2240.0	2961.7	3077.3	1205.7	229.1	220.6
85°	0.0	4.3	87.8	374.8	897.3	1000.1	1978.8	1824.6	533.2	109.2	143.5
87.5°	0.0	0.0	0.0	38.5	117.8	372.6	614.6	685.3	128.5	38.5	34.3
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°	8495.4	8495.4	8495.4	8495.4	8495.4	8495.4	8495.4	8495.4	8495.4	8495.4	8495.4
2.5°	8431.1	8291.9	7942.9	7593.8	7334.7	7118.4	6792.9	6615.1	6520.9	6381.7	6390.3
5°	8219.1	7936.4	7321.8	6685.8	6171.8	5670.7	5071.1	4829.1	4625.7	4510.0	4432.9
7.5°	7904.3	7486.7	6576.6	5728.5	4938.3	4062.4	3405.0	2966.0	2670.5	2561.2	2456.3
10°	7559.5	7004.9	5820.6	4644.9	3548.5	2644.8	2088.0	1685.4	1541.9	1409.1	1422.0
12.5°	7240.4	6565.9	5126.8	3666.3	2486.3	1681.1	1310.6	1145.7	1098.6	1083.6	1083.6
15°	6979.2	6146.1	4381.5	2756.1	1704.6	1207.8	1049.3	1004.4	987.2	983.0	983.0
17.5°	6700.8	5747.8	3709.1	2036.6	1239.9	1010.8	957.3	927.3	920.8	916.6	916.6
20°	6452.4	5347.3	3070.9	1516.2	1002.2	910.1	875.9	856.6	850.2	845.9	848.0
22.5°	6216.8	4991.9	2471.3	1145.7	882.3	828.8	794.5	775.2	762.4	751.7	753.8
25°	6006.9	4649.2	1987.3	938.0	794.5	747.4	713.1	685.3	657.4	644.6	642.5
27.5°	5859.2	4349.4	1548.3	803.1	715.3	663.9	621.0	586.8	550.4	531.1	526.8
30°	5737.1	4045.3	1224.9	708.8	636.0	586.8	533.2	484.0	445.4	426.2	417.6
32.5°	5657.9	3756.2	965.8	631.7	569.6	509.7	449.7	400.5	357.6	338.4	334.1
35°	5645.0	3514.2	790.2	567.5	509.7	445.4	383.3	329.8	293.4	274.1	269.8
37.5°	5737.1	3327.9	661.7	516.1	460.4	389.8	321.2	272.0	239.8	224.9	222.7
40°	5983.4	3210.1	573.9	473.3	415.5	338.4	274.1	231.3	199.2	184.2	184.2
42.5°	6452.4	3214.4	516.1	432.6	370.5	289.1	233.4	192.7	164.9	152.0	147.8
45°	7184.8	3360.0	466.8	391.9	327.7	250.6	199.2	158.5	130.6	119.9	119.9
47.5°	8165.6	3649.1	424.0	351.2	289.1	214.2	169.2	128.5	104.9	94.2	94.2
50°	9448.3	4113.8	387.6	316.9	257.0	184.2	137.1	104.9	81.4	72.8	70.7
52.5°	10788.9	4687.8	344.8	287.0	220.6	156.3	111.4	81.4	62.1	55.7	53.5
55°	12268.7	5248.8	304.1	257.0	179.9	130.6	87.8	64.2	45.0	38.5	38.5
57.5°	13761.3	5799.2	254.8	214.2	141.3	96.4	68.5	47.1	30.0	23.6	23.6
60°	15024.8	5977.0	216.3	173.5	107.1	68.5	49.3	30.0	17.1	10.7	10.7
62.5°	15198.3	5377.3	182.0	132.8	77.1	47.1	25.7	17.1	6.4	4.3	4.3
65°	14256.0	4368.7	152.0	100.7	51.4	23.6	10.7	6.4	2.1	0.0	0.0
67°	12774.1	3542.1	124.2	75.0	36.4	15.0	6.4	2.1	0.0	0.0	0.0
67.5°	12395.1	3377.2	119.9	70.7	32.1	12.8	4.3	2.1	0.0	0.0	0.0
70°	9726.7	2529.1	85.7	42.8	19.3	8.6	0.0	0.0	0.0	0.0	0.0
72.5°	6045.5	1430.5	62.1	25.7	12.8	4.3	0.0	0.0	0.0	0.0	0.0
75°	2285.0	501.1	42.8	17.1	8.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	711.0	190.6	25.7	12.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	239.8	72.8	17.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	147.8	30.0	10.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	92.1	12.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.1	4.3	2.1	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)