

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: P456056

Luminaire Tested: **GALN-SA7B-740-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456056
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-SA7B-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA 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: 32785 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

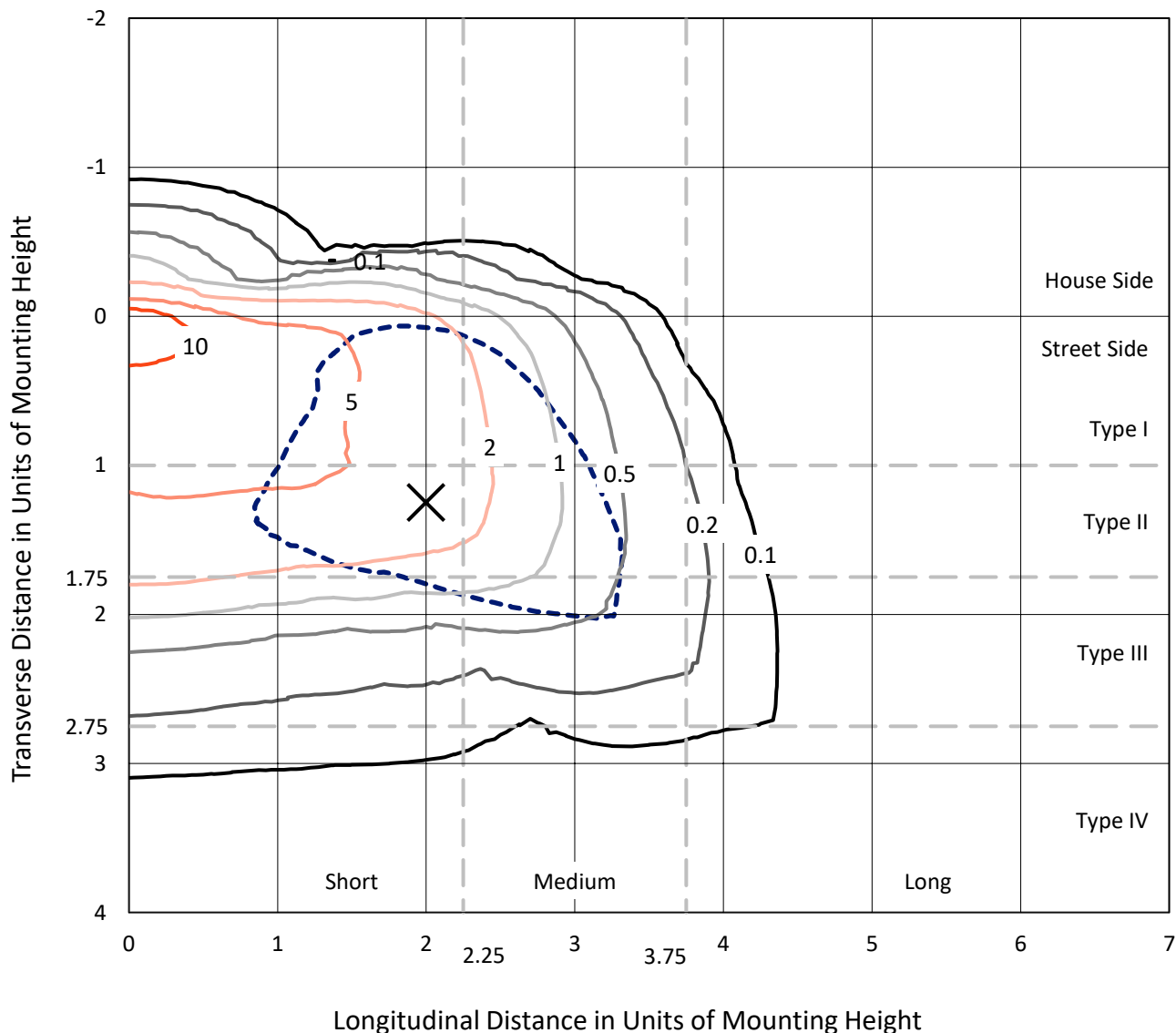
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

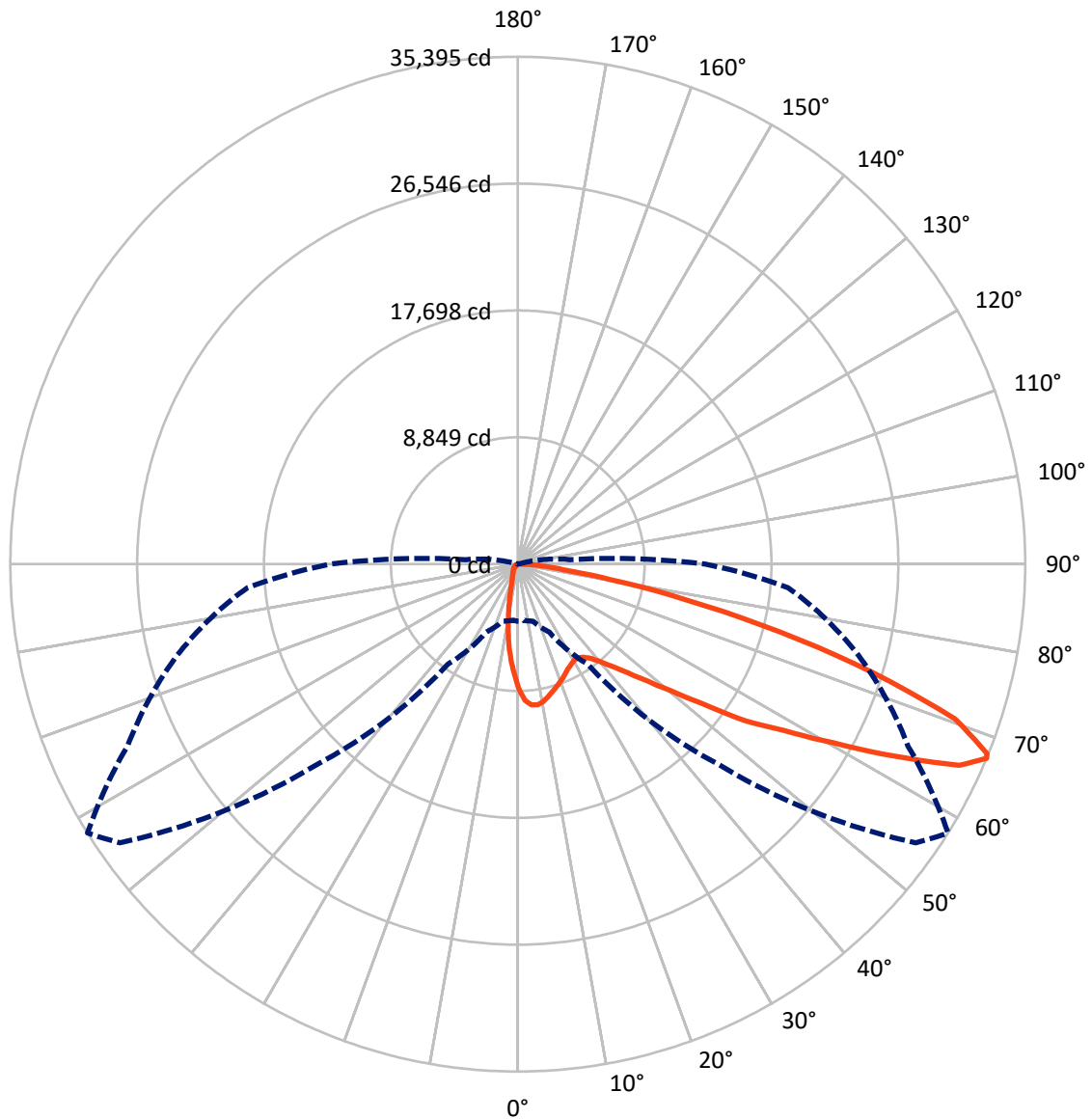
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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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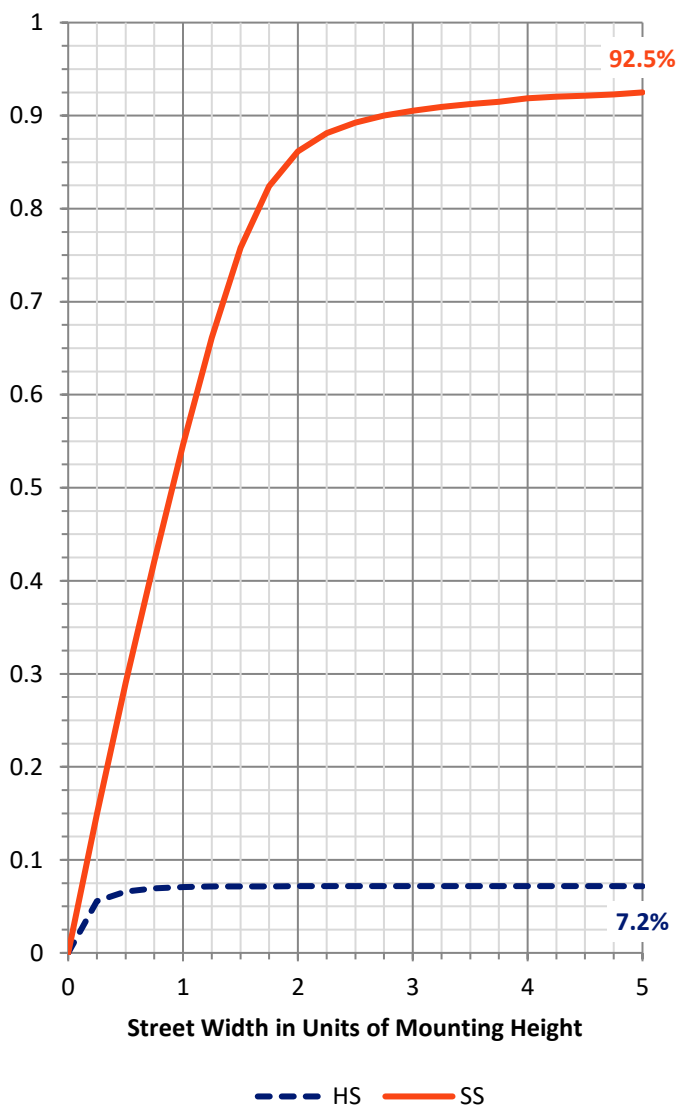
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2366.0	0.0	2366.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	30419.0	0.0	30419.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	32785.0	0.0	32785.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.3	2.2
10°-20°	1523.2	4.6
20°-30°	2064.0	6.3
30°-40°	2862.7	8.7
40°-50°	4565.6	13.9
50°-60°	7892.1	24.1
60°-70°	9015.2	27.5
70°-80°	3758.5	11.5
80°-90°	398.5	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°	32785.0	100.0
0°-180°	32785.0	100.0



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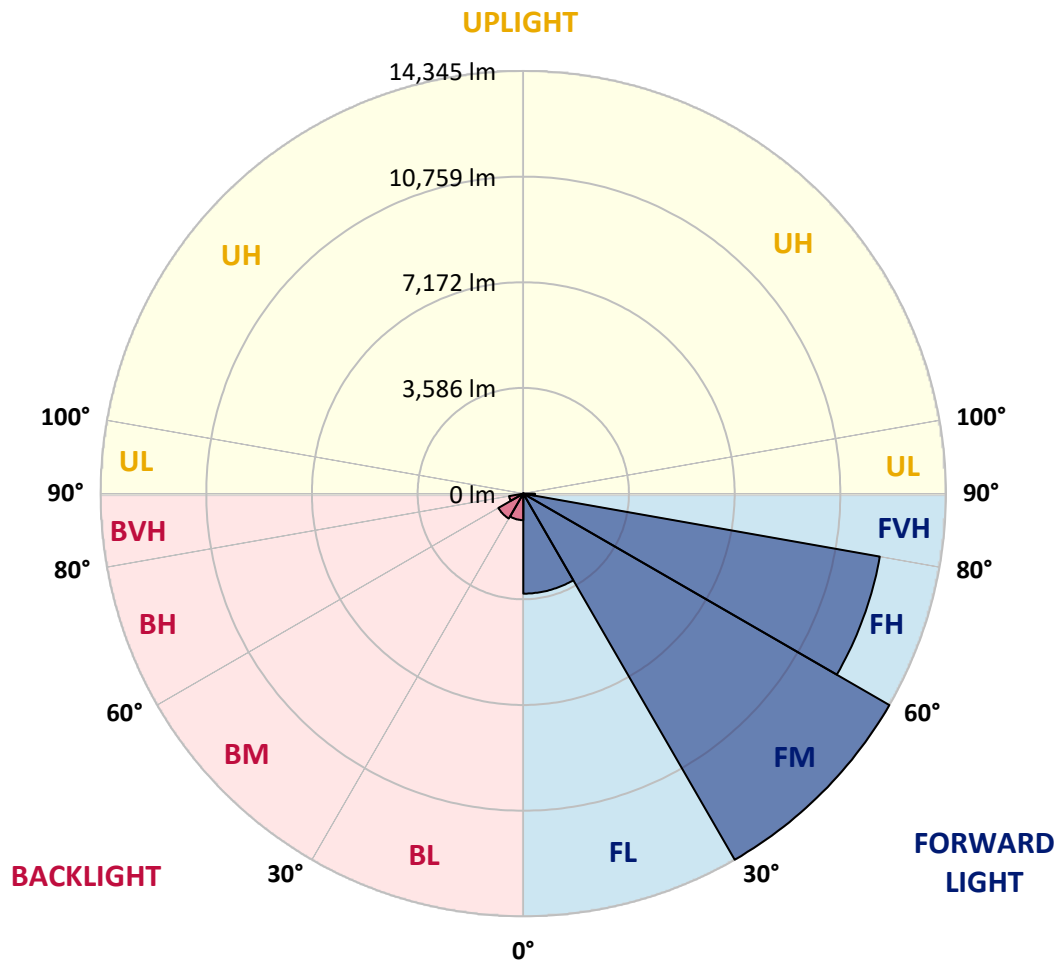
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3394.0	10.4			
FM (30°-60°)	14344.8	43.8			
FH (60°-80°)	12284.6	37.5			G5
FVH (80°-90°)	395.6	1.2			G3/500
BL (0°-30°)	898.4	2.7	B2/1000		
BM (30°-60°)	975.5	3.0	B1/1000		
BH (60°-80°)	489.1	1.5	B1/500		G1/500
BVH (80°-90°)	2.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0
2.5°	10086.6	10101.9	10044.9	9998.9	9880.6	9753.6	9584.9	9495.0	9341.7	9076.6	8783.0
5°	10323.2	10342.9	10334.1	10323.2	10277.2	10154.5	9939.8	9860.9	9635.2	9203.7	8673.5
7.5°	9797.4	9869.7	9878.4	9963.9	10044.9	10055.9	9974.8	9915.7	9707.5	9201.5	8478.5
10°	9100.7	9148.9	9219.0	9317.6	9512.6	9674.7	9753.6	9744.8	9624.3	9133.5	8250.6
12.5°	8397.4	8423.7	8531.1	8699.8	8938.6	9214.6	9424.9	9466.6	9468.7	9052.5	8060.0
15°	7792.8	7781.8	7865.1	8060.0	8395.2	8741.4	9118.2	9183.9	9289.1	8973.6	7882.6
17.5°	7275.7	7332.7	7345.8	7560.5	7869.4	8318.6	8798.4	8914.5	9124.8	8905.7	7735.8
20°	6955.9	6986.5	7015.0	7135.5	7413.8	7887.0	8498.2	8658.1	8971.4	8844.4	7571.5
22.5°	6861.7	6881.4	6857.3	6894.5	7091.7	7512.3	8171.8	8384.3	8824.6	8787.4	7437.9
25°	6934.0	6953.7	6896.7	6852.9	6920.8	7207.8	7856.3	8114.8	8706.3	8776.4	7337.1
27.5°	7109.2	7146.5	7067.6	6988.7	6949.3	7043.5	7608.7	7908.9	8625.3	8829.0	7291.1
30°	7383.1	7405.0	7345.8	7249.4	7159.6	7065.4	7479.5	7766.5	8603.4	8951.7	7286.7
32.5°	7681.0	7727.0	7694.2	7630.6	7514.5	7291.1	7516.7	7770.9	8655.9	9129.2	7341.5
35°	8049.1	8101.7	8132.3	8119.2	7970.2	7692.0	7753.3	7968.0	8796.2	9455.6	7490.4
37.5°	8410.6	8456.6	8629.7	8688.8	8557.4	8294.5	8213.4	8355.8	9105.1	9882.8	7759.9
40°	8824.6	8886.0	9129.2	9354.8	9291.3	9015.2	8866.3	8984.6	9578.3	10526.9	8270.4
42.5°	9221.2	9330.7	9701.0	10099.7	10158.9	9849.9	9751.4	9790.8	10279.4	11453.6	8982.4
45°	9784.2	9887.2	10364.8	10905.9	11184.2	10943.2	10842.4	10835.8	11241.1	12757.2	10136.9
47.5°	10597.0	10689.0	11252.1	11786.6	12281.8	12314.6	12124.0	12189.7	12450.5	14282.0	11552.2
50°	11593.8	11810.7	12181.0	12737.5	13399.1	13933.6	13992.8	13905.2	14128.6	16047.8	13252.3
52.5°	13042.0	13125.2	13464.8	13922.7	14698.2	15605.2	16308.5	16188.0	16117.9	17730.3	14969.9
55°	14122.1	14233.8	14761.8	15390.5	16527.6	17723.8	19248.6	19290.2	18405.1	19347.2	16650.3
57.5°	13795.6	13966.5	14766.2	16030.3	18530.0	20716.4	21851.3	21879.8	20521.5	20918.0	18547.5
60°	12119.6	12200.7	13346.5	15033.4	18700.9	23958.9	25542.8	25312.8	22675.0	22675.0	20223.5
62.5°	8594.6	8721.7	9650.6	12132.8	16889.1	25084.9	29963.9	29488.5	25641.4	24355.4	21222.5
65°	5492.4	5369.7	5985.3	7659.1	12581.9	23422.1	33813.2	33841.7	28432.5	25028.0	20677.0
67°	3978.5	3930.3	4107.8	5236.1	8531.1	19688.9	33894.3	35395.0	30036.2	24603.0	18933.1
67.5°	3639.0	3676.2	3805.5	4723.4	7751.1	17916.6	33526.2	35303.0	30397.7	24346.6	18302.2
70°	2758.2	2694.7	2834.9	3341.0	4646.7	11302.5	28840.0	32378.2	29948.6	21803.1	14623.8
72.5°	2028.7	2022.1	2217.1	2732.0	3577.6	6020.4	21649.7	25961.3	24467.1	16602.1	9208.0
75°	1369.3	1430.6	1741.7	2282.8	3242.4	3904.0	14759.6	18834.5	16985.5	9427.1	3763.8
77.5°	779.9	784.3	1121.7	1833.7	2911.6	3141.6	8745.8	11999.1	8991.1	3135.1	1117.3
80°	337.4	370.2	556.5	1332.0	2414.3	2782.3	5014.8	6594.4	3636.8	663.8	361.5
82.5°	124.9	146.8	245.4	819.4	1761.4	2291.6	3029.9	3148.2	1233.4	234.4	225.7
85°	0.0	4.4	89.8	383.4	918.0	1023.1	2024.3	1866.6	545.5	111.7	146.8
87.5°	0.0	0.0	0.0	39.4	120.5	381.2	628.8	701.1	131.4	39.4	35.1
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°	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0
2.5°	8625.3	8482.9	8125.8	7768.7	7503.6	7282.3	6949.3	6767.5	6671.1	6528.7	6537.4
5°	8408.4	8119.2	7490.4	6839.8	6314.0	5801.3	5187.9	4940.3	4732.2	4613.9	4535.0
7.5°	8086.3	7659.1	6728.0	5860.5	5052.0	4156.0	3483.4	3034.3	2732.0	2620.2	2512.9
10°	7733.6	7166.2	5954.7	4751.9	3630.2	2705.7	2136.1	1724.2	1577.4	1441.6	1454.7
12.5°	7407.2	6717.1	5244.8	3750.7	2543.5	1719.8	1340.8	1172.1	1123.9	1108.6	1108.6
15°	7139.9	6287.7	4482.4	2819.6	1743.9	1235.6	1073.5	1027.5	1010.0	1005.6	1005.6
17.5°	6855.1	5880.2	3794.5	2083.5	1268.5	1034.1	979.3	948.6	942.1	937.7	937.7
20°	6601.0	5470.5	3141.6	1551.1	1025.3	931.1	896.0	876.3	869.8	865.4	867.6
22.5°	6360.0	5106.8	2528.2	1172.1	902.6	847.8	812.8	793.1	779.9	769.0	771.2
25°	6145.3	4756.3	2033.1	959.6	812.8	764.6	729.5	701.1	672.6	659.4	657.2
27.5°	5994.1	4449.6	1584.0	821.6	731.7	679.2	635.3	600.3	563.0	543.3	538.9
30°	5869.2	4138.5	1253.2	725.2	650.7	600.3	545.5	495.1	455.7	436.0	427.2
32.5°	5788.2	3842.7	988.1	646.3	582.8	521.4	460.1	409.7	365.9	346.2	341.8
35°	5775.0	3595.1	808.4	580.6	521.4	455.7	392.2	337.4	300.1	280.4	276.0
37.5°	5869.2	3404.5	677.0	528.0	471.0	398.7	328.6	278.2	245.4	230.0	227.8
40°	6121.2	3284.0	587.1	484.2	425.0	346.2	280.4	236.6	203.7	188.4	188.4
42.5°	6601.0	3288.4	528.0	442.5	379.0	295.8	238.8	197.2	168.7	155.5	151.2
45°	7350.2	3437.4	477.6	400.9	335.2	256.3	203.7	162.1	133.6	122.7	122.7
47.5°	8353.6	3733.2	433.8	359.3	295.8	219.1	173.1	131.4	107.4	96.4	96.4
50°	9665.9	4208.6	396.5	324.2	262.9	188.4	140.2	107.4	83.3	74.5	72.3
52.5°	11037.4	4795.7	352.7	293.6	225.7	159.9	113.9	83.3	63.5	57.0	54.8
55°	12551.2	5369.7	311.1	262.9	184.0	133.6	89.8	65.7	46.0	39.4	39.4
57.5°	14078.2	5932.8	260.7	219.1	144.6	98.6	70.1	48.2	30.7	24.1	24.1
60°	15370.8	6114.6	221.3	177.5	109.5	70.1	50.4	30.7	17.5	11.0	11.0
62.5°	15548.3	5501.2	186.2	135.8	78.9	48.2	26.3	17.5	6.6	4.4	4.4
65°	14584.3	4469.3	155.5	103.0	52.6	24.1	11.0	6.6	2.2	0.0	0.0
67°	13068.3	3623.6	127.1	76.7	37.2	15.3	6.6	2.2	0.0	0.0	0.0
67.5°	12680.5	3454.9	122.7	72.3	32.9	13.1	4.4	2.2	0.0	0.0	0.0
70°	9950.7	2587.4	87.6	43.8	19.7	8.8	0.0	0.0	0.0	0.0	0.0
72.5°	6184.7	1463.5	63.5	26.3	13.1	4.4	0.0	0.0	0.0	0.0	0.0
75°	2337.6	512.7	43.8	17.5	8.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	727.4	195.0	26.3	13.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	245.4	74.5	17.5	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	151.2	30.7	11.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	94.2	13.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.5	4.4	2.2	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)