

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: P530454

Luminaire Tested: **GALN-SA5C-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23853 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): 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



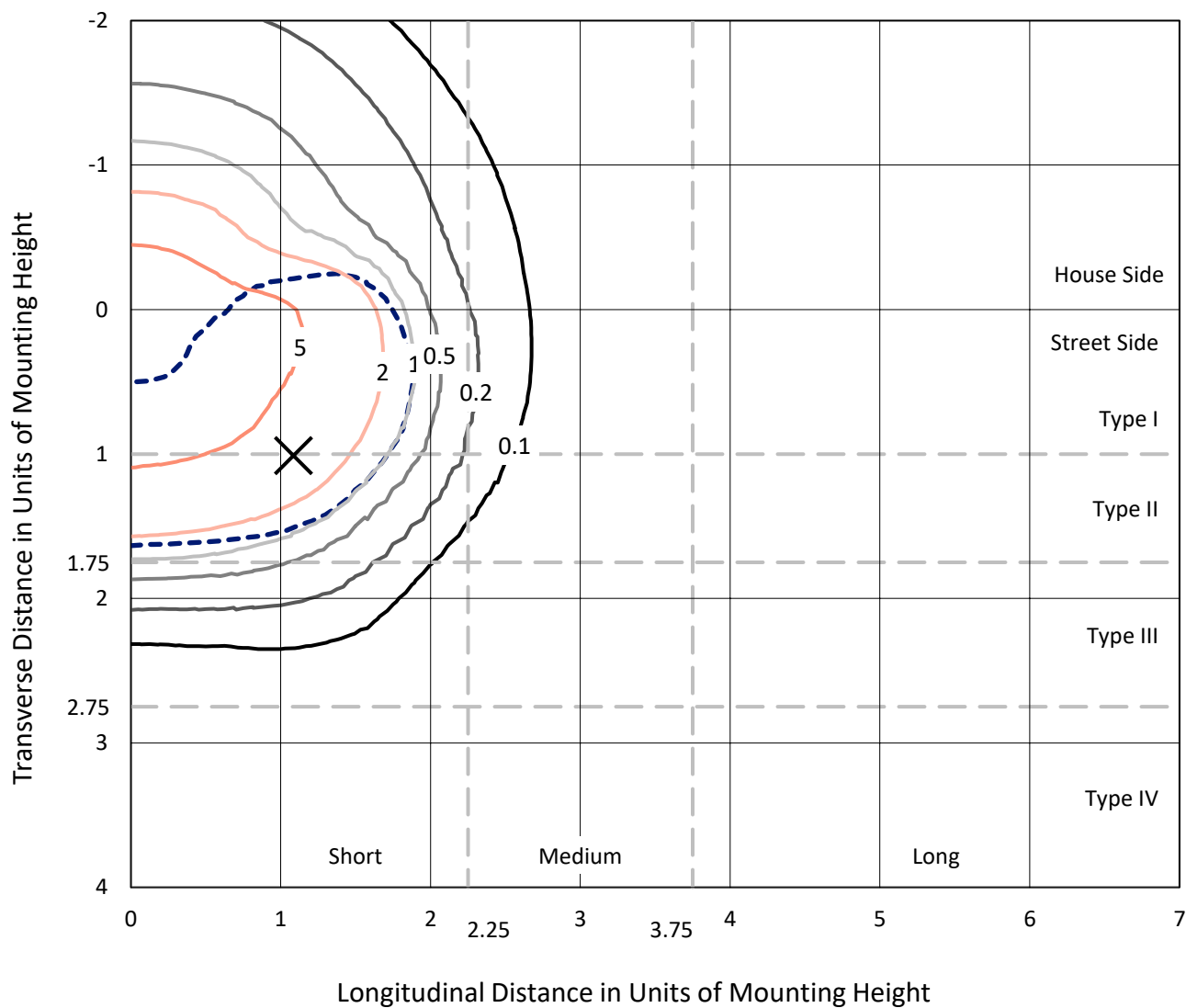
REPORT NUMBER: P530454

CATALOG NUMBER: GALN-SA5C-830-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

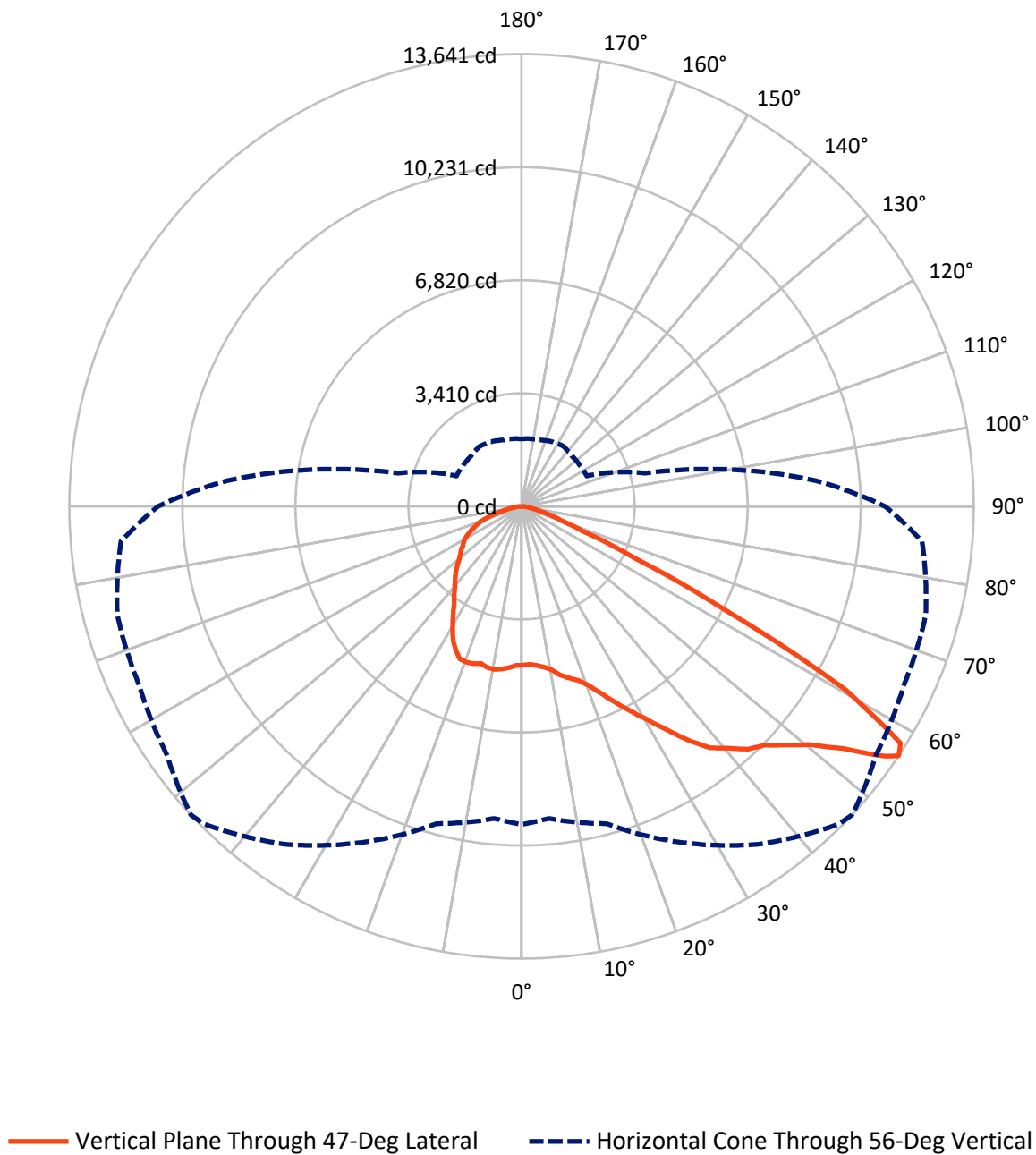


Based on 25 foot mounting height. Maximum calculated value = 8 fc

Type II - Short - N/A

REPORT NUMBER: P530454
CATALOG NUMBER: GALN-SA5C-830-U-T3-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P530454

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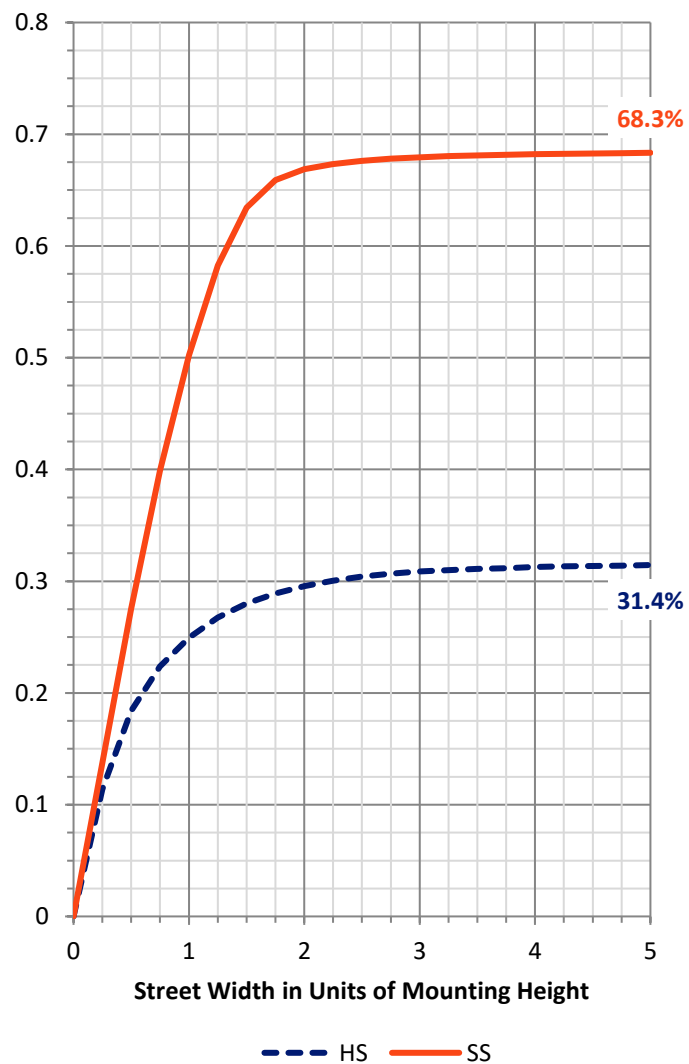
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7558.7	0.0	7558.7
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	16294.3	0.0	16294.3
	% Fixture	68.3	0.0	68.3
Total	Lumens	23853.0	0.0	23853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.9	2.0
10°-20°	1472.7	6.2
20°-30°	2603.3	10.9
30°-40°	3910.1	16.4
40°-50°	5366.3	22.5
50°-60°	6393.2	26.8
60°-70°	2735.9	11.5
70°-80°	774.3	3.2
80°-90°	130.3	0.5
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°	23853.0	100.0
0°-180°	23853.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530454

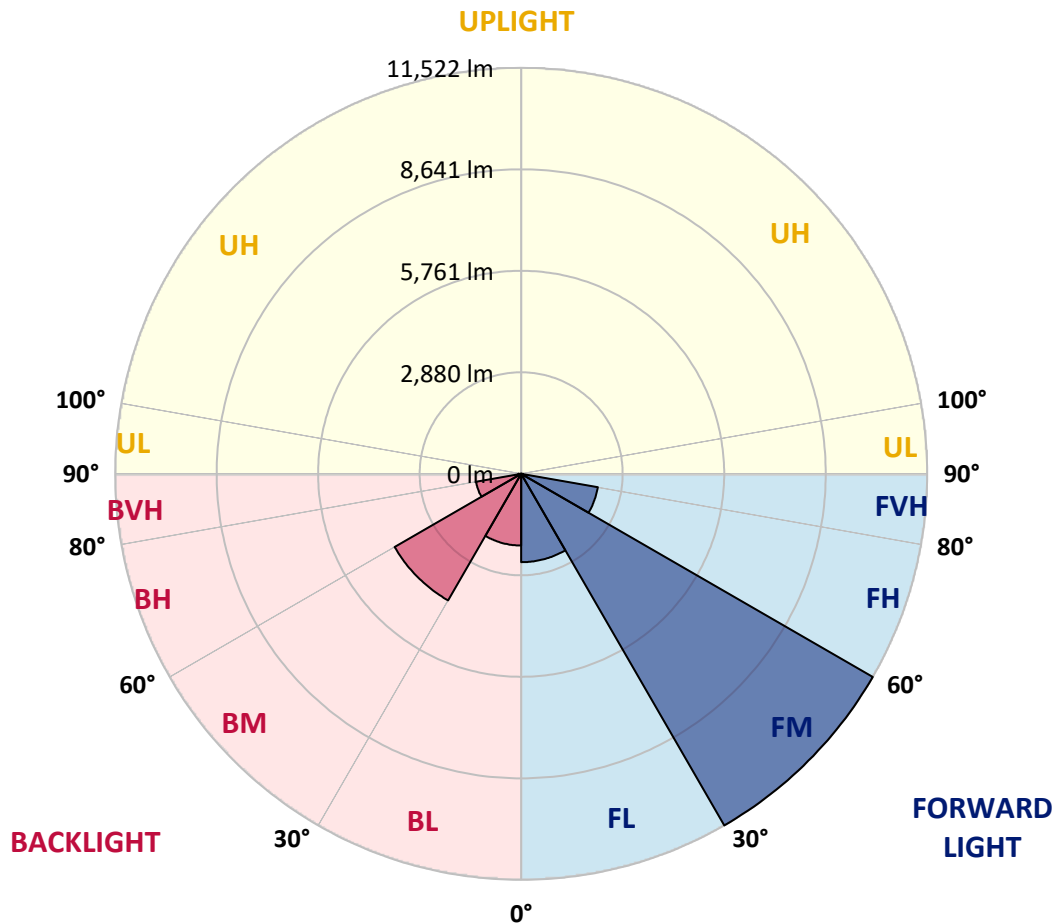
CATALOG NUMBER: GALN-SA5C-830-U-T3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2507.8	10.5			
FM	(30°-60°)	11521.5	48.3			
FH	(60°-80°)	2209.7	9.3			G2/5000
FVH	(80°-90°)	55.3	0.2			G1/100
BL	(0°-30°)	2035.1	8.5	B3/2500		
BM	(30°-60°)	4148.1	17.4	B3/5000		
BH	(60°-80°)	1300.5	5.5	B3/2500		G3/2500
BVH	(80°-90°)	75.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



REPORT NUMBER: P530454

CATALOG NUMBER: GALN-SA5C-830-U-T3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4791.3	4791.3	4791.3	4791.3	4791.3	4791.3	4791.3	4791.3	4791.3	4791.3	4791.3
2.5°	4773.1	4764.0	4757.9	4806.6	4788.3	4791.3	4773.1	4791.3	4803.5	4776.1	4815.7
5°	4764.0	4791.3	4767.0	4782.2	4821.8	4809.6	4821.8	4858.3	4849.1	4840.0	4827.8
7.5°	4849.1	4852.2	4870.4	4876.5	4888.7	4876.5	4894.8	4928.2	4919.1	4867.4	4873.5
10°	4970.8	4976.9	4980.0	5013.4	5034.7	5037.8	5016.5	4986.0	4983.0	5053.0	5004.3
12.5°	5110.8	5095.6	5132.1	5144.2	5168.6	5195.9	5223.3	5159.4	5199.0	5202.0	5144.2
15°	5314.6	5329.8	5287.2	5287.2	5296.3	5299.4	5375.4	5345.0	5338.9	5305.5	5329.8
17.5°	5618.8	5515.4	5512.3	5469.7	5463.7	5488.0	5515.4	5539.7	5621.8	5554.9	5424.1
20°	5840.9	5865.2	5777.0	5725.3	5734.4	5789.2	5761.8	5871.3	5929.1	5819.6	5691.8
22.5°	6233.3	6151.2	6172.5	6056.9	6066.0	6123.8	6120.8	6233.3	6266.8	6093.4	5907.8
25°	6498.0	6476.7	6494.9	6403.7	6415.8	6461.5	6534.5	6720.0	6665.3	6473.6	6044.7
27.5°	6884.3	6841.7	6826.5	6793.1	6780.9	6902.6	6987.8	7185.5	7145.9	6866.1	6288.1
30°	7279.8	7252.4	7267.6	7130.7	7179.4	7438.0	7462.3	7733.1	7714.8	7222.0	6558.8
32.5°	7553.6	7568.8	7596.2	7520.1	7736.1	7943.0	8025.1	8332.4	8347.6	7833.5	7082.1
35°	7994.7	7943.0	7958.2	8046.4	8146.8	8524.0	8657.9	8861.7	8989.5	8475.4	7584.0
37.5°	8271.5	8326.3	8262.4	8402.3	8664.0	9117.2	9238.9	9448.8	9582.7	9108.1	8268.5
40°	8703.5	8615.3	8660.9	8761.3	9029.0	9619.2	9585.7	9801.7	9844.3	9646.6	8907.3
42.5°	9169.0	9126.4	9062.5	9290.6	9515.8	9944.7	10011.6	9911.2	10127.2	10172.9	9820.0
45°	9725.7	9777.4	9786.5	9792.6	9990.3	10364.5	10273.2	10185.0	10434.5	10766.1	10385.8
47.5°	10242.8	10078.6	10197.2	10361.5	10641.3	10644.4	10750.9	10541.0	10805.6	11100.7	10896.9
50°	10416.2	10337.1	10495.3	10805.6	11237.6	11283.2	11295.4	10997.3	11134.2	11368.4	11073.3
52.5°	10349.3	10321.9	10726.5	11207.2	11839.9	12071.1	12132.0	11763.9	11839.9	11733.5	11462.7
55°	10029.9	10112.0	10519.7	11499.2	12469.7	13184.6	13300.2	12834.7	12351.0	12433.2	12135.0
56°	9591.8	9448.8	9905.2	11167.6	12442.3	13546.6	13640.9	13059.8	12731.3	12624.8	12128.9
57.5°	8137.7	7952.1	8551.4	10048.1	11751.7	13409.7	13479.6	13154.1	12667.4	12451.4	11243.7
60°	4764.0	4855.2	5615.8	6930.0	9065.5	10994.2	11228.5	11465.8	11140.3	10172.9	8368.9
62.5°	2299.8	2242.0	2786.6	3973.0	5524.5	7018.2	6948.2	7614.4	7979.5	7228.1	5284.2
65°	1204.7	1198.6	1521.1	2169.0	3036.0	3687.1	3750.9	4109.9	4611.9	3723.6	2683.2
67.5°	885.3	909.6	1070.8	1524.1	1953.0	1992.6	1983.5	2162.9	2211.6	1870.9	1648.8
70°	693.6	705.8	824.4	1159.0	1454.1	1302.0	1274.6	1295.9	1438.9	1499.8	1426.8
72.5°	502.0	514.1	614.5	781.8	909.6	888.3	906.6	1025.2	1201.6	1265.5	1189.5
75°	334.6	343.8	398.5	477.6	538.5	581.0	614.5	751.4	915.7	952.2	915.7
77.5°	231.2	240.3	276.8	337.7	343.8	371.1	383.3	447.2	547.6	593.2	568.9
80°	130.8	130.8	149.1	173.4	212.9	249.5	255.5	307.3	352.9	383.3	389.4
82.5°	60.8	63.9	79.1	106.5	139.9	173.4	179.5	212.9	246.4	276.8	286.0
85°	30.4	33.5	45.6	63.9	85.2	103.4	100.4	103.4	109.5	103.4	106.5
87.5°	9.1	9.1	12.2	15.2	12.2	15.2	15.2	18.3	21.3	24.3	27.4
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: P530454

CATALOG NUMBER: GALN-SA5C-830-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4791.3	4791.3	4791.3	4791.3	4791.3	4791.3	4791.3	4791.3	4791.3	4791.3	4791.3
2.5°	4818.7	4827.8	4767.0	4824.8	4803.5	4800.5	4843.1	4837.0	4852.2	4846.1	4809.6
5°	4821.8	4800.5	4864.4	4806.6	4833.9	4891.7	4852.2	4943.4	4897.8	4928.2	4861.3
7.5°	4916.1	4922.2	4910.0	4934.3	4922.2	4949.5	4928.2	4949.5	4913.0	4916.1	4976.9
10°	4998.2	4980.0	5001.2	4970.8	4992.1	4983.0	4934.3	4919.1	4931.3	4916.1	4955.6
12.5°	5150.3	5116.9	5101.6	5065.1	5040.8	4949.5	4873.5	4830.9	4888.7	4897.8	4879.6
15°	5305.5	5308.5	5238.5	5156.4	5004.3	4867.4	4885.6	4900.9	4900.9	4925.2	4879.6
17.5°	5402.8	5402.8	5338.9	5174.7	5019.5	4940.4	4922.2	4873.5	4830.9	4824.8	4821.8
20°	5573.2	5521.5	5375.4	5171.6	5013.4	4976.9	4840.0	4724.4	4636.2	4605.8	4602.7
22.5°	5767.9	5637.1	5433.2	5177.7	5004.3	4952.6	4697.0	4523.6	4365.4	4298.5	4307.6
25°	5947.3	5737.4	5466.7	5150.3	4970.8	4721.4	4435.4	4195.1	4030.8	3976.1	3948.7
27.5°	6072.1	5843.9	5466.7	5174.7	4846.1	4462.8	4170.7	3863.5	3720.5	3684.0	3690.1
30°	6239.4	5977.8	5561.0	5122.9	4596.6	4128.2	3778.3	3577.5	3492.4	3461.9	3483.2
32.5°	6631.8	6327.6	5691.8	4998.2	4301.6	3793.5	3510.6	3398.1	3273.3	3212.5	3191.2
35°	7057.7	6659.2	5819.6	4788.3	3970.0	3489.3	3312.9	3209.4	3060.4	2993.4	3005.6
37.5°	7660.1	7085.1	5828.7	4441.5	3611.0	3319.0	3157.7	2996.5	2874.8	2771.4	2741.0
40°	8472.3	7666.1	5807.4	4076.4	3322.0	3118.2	2999.5	2798.8	2661.9	2588.8	2604.1
42.5°	9187.2	8347.6	5719.2	3662.7	3060.4	2981.3	2847.4	2649.7	2515.8	2439.8	2433.7
45°	9789.6	8849.5	5551.9	3309.8	2841.3	2829.2	2674.0	2521.9	2415.4	2345.5	2375.9
47.5°	10346.3	9254.1	5299.4	2956.9	2640.6	2664.9	2515.8	2421.5	2354.6	2290.7	2287.7
50°	10547.0	9248.1	5077.3	2664.9	2479.3	2467.2	2461.1	2360.7	2290.7	2236.0	2260.3
52.5°	10881.7	9351.5	4837.0	2464.1	2333.3	2336.4	2357.6	2284.6	2205.5	2172.1	2202.5
55°	11362.3	9366.7	4307.6	2229.9	2211.6	2232.9	2232.9	2184.2	2117.3	2089.9	2074.7
56°	10969.9	8913.4	3863.5	2169.0	2150.8	2150.8	2208.6	2153.8	2071.7	2050.4	2032.1
57.5°	10118.1	7809.1	3233.8	2096.0	2068.6	2111.2	2141.7	2083.9	2007.8	1977.4	1995.6
60°	6978.6	5284.2	2430.7	1937.8	1937.8	2007.8	2032.1	1947.0	1913.5	1910.5	1886.1
62.5°	4073.4	3078.6	1901.3	1794.9	1800.9	1858.7	1877.0	1828.3	1785.7	1837.4	1861.8
65°	2159.9	1837.4	1630.6	1642.7	1645.8	1691.4	1770.5	1767.5	1764.4	1779.6	1782.7
67.5°	1563.7	1527.1	1481.5	1469.3	1475.4	1508.9	1588.0	1648.8	1645.8	1609.3	1581.9
70°	1393.3	1341.6	1314.2	1317.2	1292.9	1332.4	1396.3	1435.9	1365.9	1323.3	1305.1
72.5°	1159.0	1143.8	1125.6	1128.6	1080.0	1070.8	997.8	997.8	979.6	967.4	988.7
75°	885.3	879.2	888.3	873.1	821.4	766.6	724.0	684.5	623.6	599.3	587.1
77.5°	559.8	578.0	599.3	565.8	544.5	505.0	462.4	422.9	374.2	346.8	346.8
80°	380.3	395.5	410.7	404.6	380.3	343.8	310.3	267.7	234.2	212.9	209.9
82.5°	289.0	301.2	322.5	298.1	273.8	243.4	216.0	185.6	155.1	130.8	130.8
85°	103.4	118.6	130.8	143.0	152.1	155.1	133.9	109.5	88.2	70.0	66.9
87.5°	27.4	30.4	33.5	30.4	30.4	30.4	33.5	30.4	27.4	21.3	21.3
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)