

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: P531854

Luminaire Tested: **GALN-SA7A-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21231 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 215
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



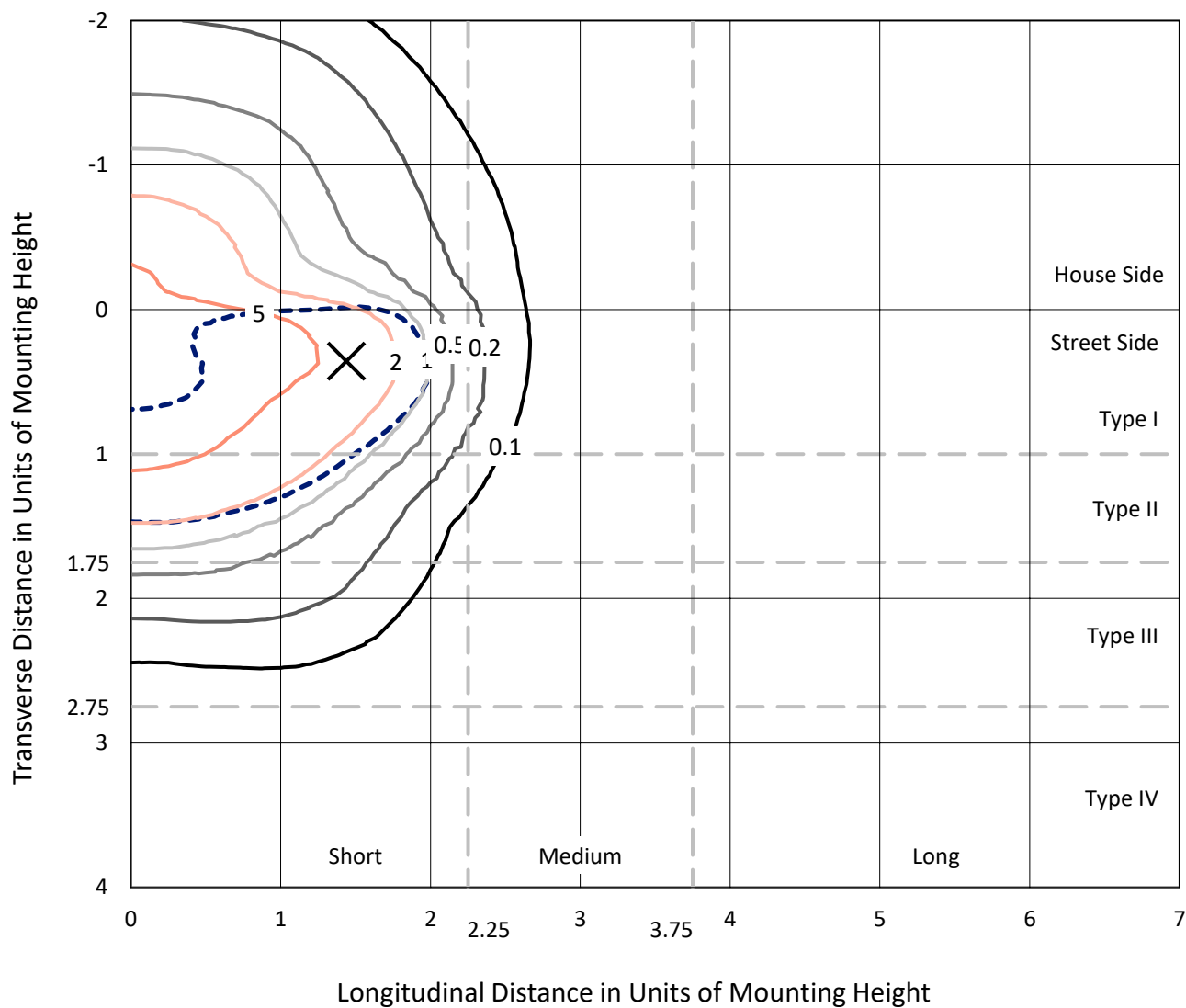
REPORT NUMBER: P531854

CATALOG NUMBER: GALN-SA7A-830-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

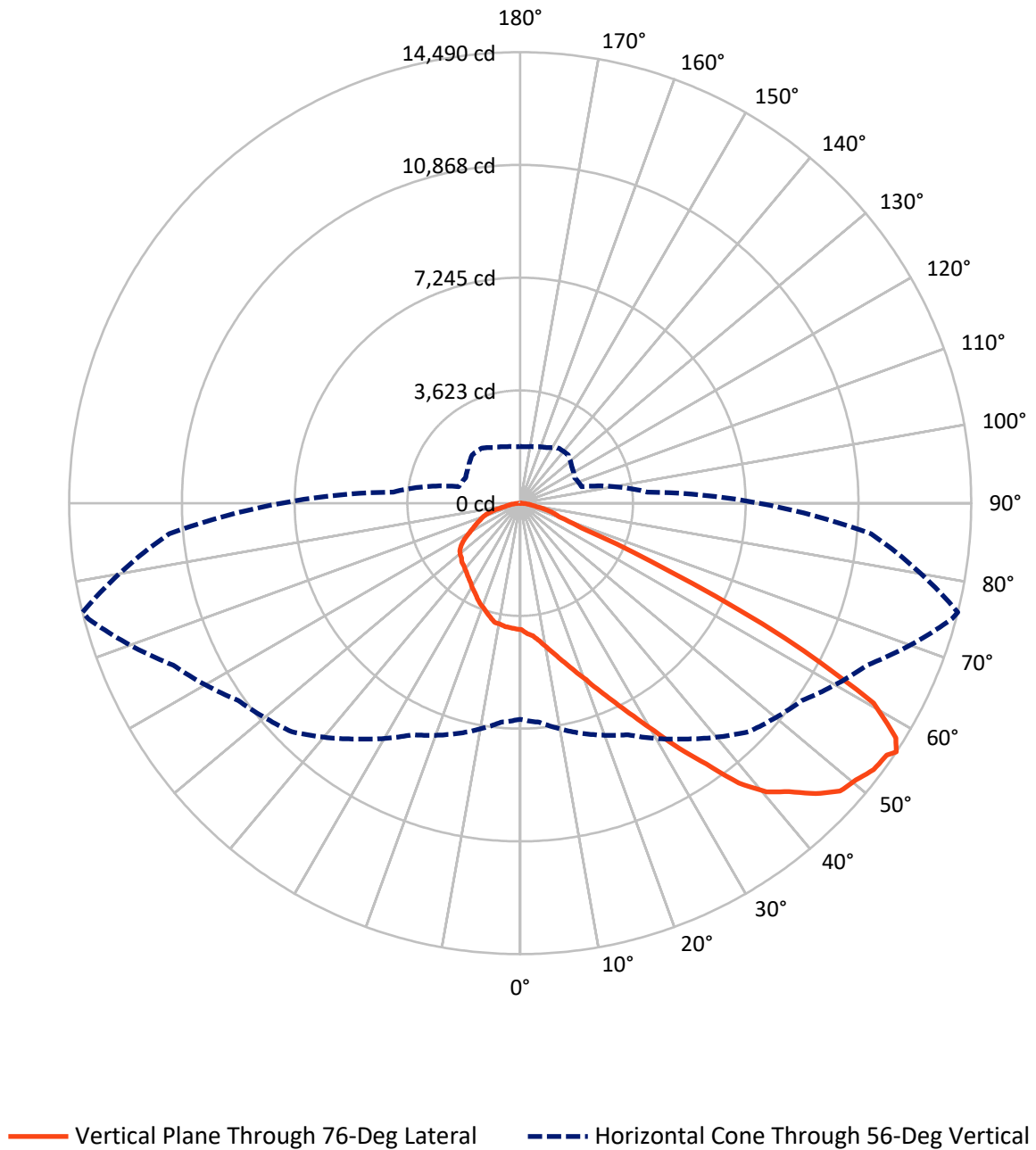
--- 1/2 Max cd



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

REPORT NUMBER: P531854
CATALOG NUMBER: GALN-SA7A-830-U-T2-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P531854

CATALOG NUMBER: GALN-SA7A-830-U-T2-GRSWH

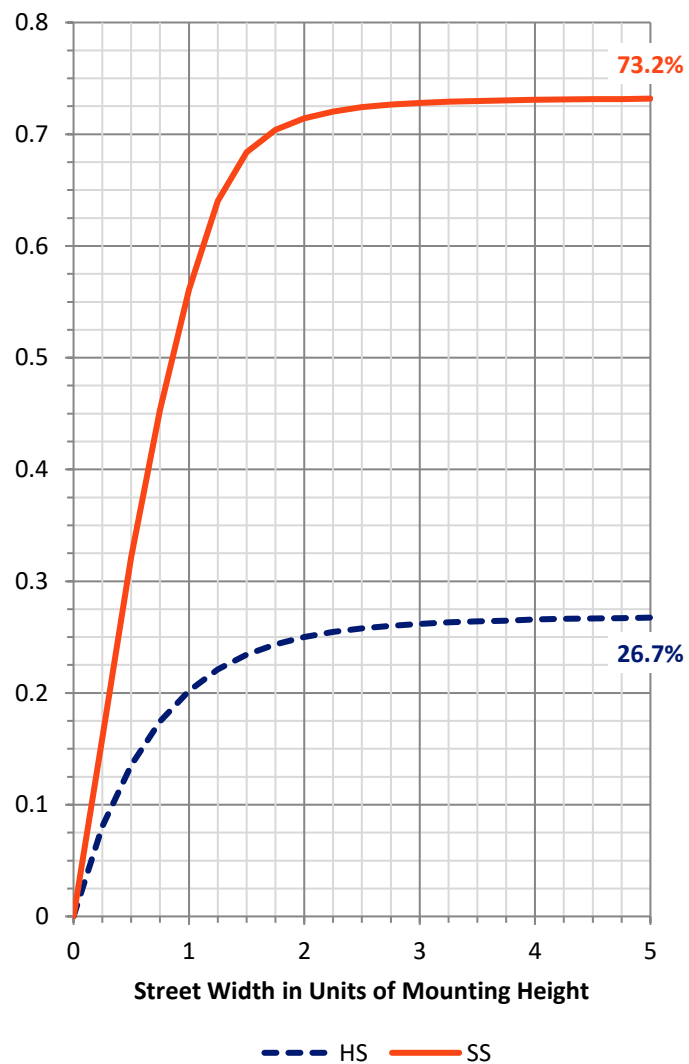
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5708.4	0.0	5708.4
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	15522.6	0.0	15522.6
	% Fixture	73.1	0.0	73.1
Total	Lumens	21231.0	0.0	21231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.9	1.9
10°-20°	1265.5	6.0
20°-30°	2213.2	10.4
30°-40°	3465.2	16.3
40°-50°	5040.9	23.7
50°-60°	5540.3	26.1
60°-70°	2472.9	11.6
70°-80°	714.3	3.4
80°-90°	115.9	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°	21231.0	100.0
0°-180°	21231.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531854

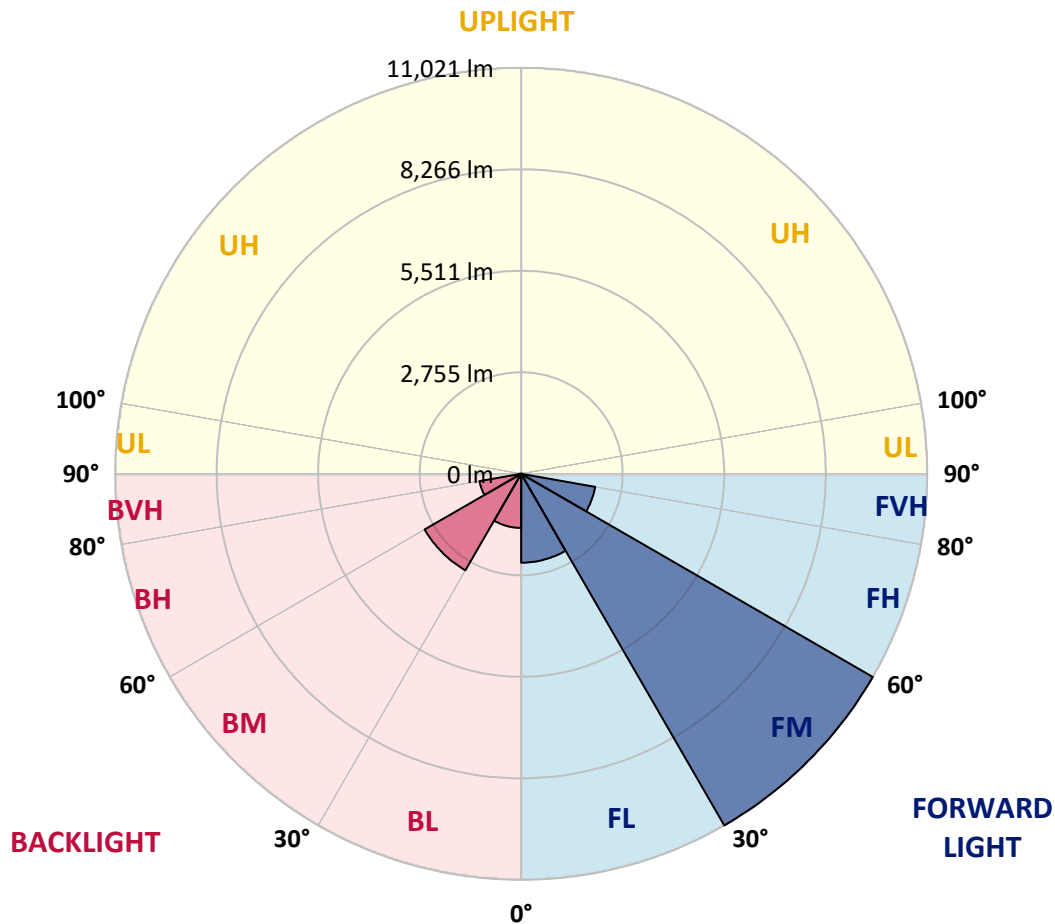
CATALOG NUMBER: GALN-SA7A-830-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2412.7	11.4			
FM	(30°-60°)	11021.4	51.9			
FH	(60°-80°)	2038.7	9.6			G2/5000
FVH	(80°-90°)	49.9	0.2			G1/100
BL	(0°-30°)	1468.9	6.9	B3/2500		
BM	(30°-60°)	3025.0	14.2	B3/5000		
BH	(60°-80°)	1148.5	5.4	B3/2500		G3/2500
BVH	(80°-90°)	66.0	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: P531854

CATALOG NUMBER: GALN-SA7A-830-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4062.3	4062.3	4062.3	4062.3	4062.3	4062.3	4062.3	4062.3	4062.3	4062.3	4062.3
2.5°	4475.1	4403.6	4398.1	4378.8	4389.8	4340.3	4288.0	4219.2	4147.6	4191.6	4087.0
5°	4788.9	4692.5	4731.1	4665.0	4673.3	4607.2	4499.9	4420.1	4332.0	4279.7	4205.4
7.5°	4899.0	4907.2	4934.7	4923.7	4868.7	4868.7	4797.1	4656.8	4502.6	4472.4	4348.5
10°	5047.6	5050.3	5020.1	5028.3	5105.4	5069.6	5006.3	4945.7	4747.6	4711.8	4491.6
12.5°	5099.9	5050.3	5099.9	5143.9	5234.7	5284.3	5270.5	5226.5	5014.5	4989.8	4667.8
15°	5108.1	5077.8	5119.1	5218.2	5298.0	5507.2	5611.8	5581.5	5300.8	5303.5	4865.9
17.5°	5069.6	5110.9	5127.4	5212.7	5397.1	5592.5	5895.3	5936.5	5705.4	5669.6	5116.4
20°	5121.9	5091.6	5113.6	5190.7	5435.6	5741.1	6137.5	6409.9	6085.2	6060.4	5375.1
22.5°	5322.8	5281.5	5276.0	5325.5	5501.7	5818.2	6393.4	6883.3	6547.5	6561.3	5697.1
25°	5479.7	5501.7	5482.4	5479.7	5589.8	5933.8	6731.9	7447.5	7175.0	7095.2	6076.9
27.5°	5749.4	5801.7	5763.2	5815.4	5790.7	6107.2	6974.1	8072.3	7852.1	7744.8	6420.9
30°	6123.7	6151.2	6115.4	6115.4	6041.1	6349.4	7194.3	8724.5	8633.7	8487.9	6825.5
32.5°	6616.3	6657.6	6586.1	6544.8	6533.8	6709.9	7590.6	9368.6	9522.7	9398.8	7362.2
35°	7268.6	7243.8	7158.5	7120.0	6971.4	7263.1	8179.6	10108.9	10513.5	10293.3	8011.7
37.5°	7843.8	7805.3	7799.8	7585.1	7620.9	7860.3	8680.5	10670.4	11474.0	11410.7	8697.0
40°	8380.5	8416.3	8474.1	8353.0	8297.9	8562.2	9264.0	11099.7	12219.9	12195.1	9225.4
42.5°	8955.7	8922.7	9024.5	8922.7	8840.1	9214.4	9897.0	11397.0	12874.9	12671.2	9778.6
45°	9789.7	9685.1	9720.8	9729.1	9668.6	9806.2	10158.5	11611.6	13334.5	13312.5	10183.2
47.5°	10486.0	10488.7	10428.2	10381.4	10197.0	10334.6	10450.2	11746.5	13862.9	13827.2	10340.1
50°	10744.7	10708.9	10885.0	10986.9	10997.9	10717.2	10678.6	11820.8	14140.9	13984.0	10497.0
52.5°	9814.4	9847.4	10125.4	10730.9	11080.4	11110.7	10945.6	11974.9	14253.8	14220.7	10623.6
55°	7898.9	8058.5	8515.4	9214.4	10042.9	10953.8	11234.6	12134.5	14314.3	14286.8	11185.0
56°	6943.9	7067.7	7662.2	8209.9	9250.2	10384.1	11052.9	12305.2	14361.1	14490.4	11317.1
57.5°	5589.8	5732.9	6159.5	6781.5	8009.0	9299.8	10552.0	12096.0	14179.4	14229.0	11413.5
60°	3495.3	3509.1	4021.0	4431.1	5295.3	6555.8	8053.0	10524.5	13122.6	13051.0	10252.0
62.5°	2292.6	2295.4	2760.5	3096.2	3489.8	3778.8	4739.3	6979.6	9682.3	9555.7	7298.9
65°	1610.0	1645.8	2006.4	2455.0	2614.6	2463.2	2433.0	3679.7	5408.1	5226.5	3921.9
67.5°	1178.0	1180.7	1500.0	1981.6	2212.8	1874.3	1522.0	1797.2	2141.2	2135.7	1816.5
70°	778.9	811.9	1056.9	1480.7	1744.9	1505.5	1244.0	1285.3	1362.3	1362.3	1351.3
72.5°	454.1	484.4	646.8	938.5	979.8	941.3	985.3	1100.9	1150.4	1147.7	1133.9
75°	258.7	272.5	308.2	390.8	487.1	575.2	723.8	833.9	883.5	913.7	878.0
77.5°	151.4	159.6	181.6	222.9	253.2	311.0	393.6	470.6	536.7	528.4	533.9
80°	79.8	79.8	101.8	132.1	176.1	220.2	261.5	305.5	341.3	349.5	357.8
82.5°	46.8	49.5	66.1	96.3	126.6	156.9	200.9	231.2	264.2	267.0	272.5
85°	24.8	27.5	41.3	63.3	85.3	96.3	99.1	93.6	101.8	96.3	110.1
87.5°	8.3	8.3	13.8	11.0	11.0	13.8	16.5	16.5	22.0	22.0	22.0
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: P531854

CATALOG NUMBER: GALN-SA7A-830-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4062.3	4062.3	4062.3	4062.3	4062.3	4062.3	4062.3	4062.3	4062.3	4062.3	4062.3
2.5°	4084.3	4084.3	4037.5	3949.4	3935.7	3899.9	3866.9	3864.1	3839.3	3817.3	3806.3
5°	4161.4	4076.0	4007.2	3927.4	3833.8	3789.8	3740.3	3685.2	3663.2	3685.2	3682.5
7.5°	4249.4	4177.9	3971.5	3822.8	3715.5	3671.5	3616.4	3558.6	3564.1	3564.1	3525.6
10°	4334.7	4238.4	3908.2	3718.3	3561.4	3528.3	3498.1	3520.1	3547.6	3553.1	3528.3
12.5°	4477.9	4260.4	3877.9	3613.7	3514.6	3443.0	3462.3	3522.8	3580.6	3564.1	3583.4
15°	4585.2	4279.7	3740.3	3506.3	3382.5	3415.5	3484.3	3525.6	3621.9	3610.9	3630.2
17.5°	4689.8	4290.7	3605.4	3363.2	3310.9	3401.7	3454.0	3572.4	3602.7	3668.7	3693.5
20°	4904.5	4312.7	3467.8	3275.1	3258.6	3363.2	3454.0	3509.1	3575.1	3632.9	3632.9
22.5°	5014.5	4301.7	3377.0	3159.6	3211.8	3277.9	3360.5	3454.0	3454.0	3509.1	3511.8
25°	5152.2	4257.7	3233.9	3104.5	3143.0	3206.3	3299.9	3266.9	3302.7	3302.7	3346.7
27.5°	5309.0	4164.1	3110.0	3005.4	3082.5	3151.3	3165.1	3143.0	3101.8	3096.2	3079.7
30°	5435.6	4048.5	3019.2	2972.4	3035.7	3074.2	3030.2	2983.4	2911.9	2906.3	2867.8
32.5°	5609.0	3905.4	2906.3	2889.8	2961.4	2964.1	2950.4	2878.8	2774.2	2730.2	2686.2
35°	5900.8	3822.8	2821.0	2845.8	2867.8	2859.6	2834.8	2757.7	2653.1	2633.9	2617.4
37.5°	6115.4	3762.3	2733.0	2763.2	2782.5	2793.5	2719.2	2633.9	2636.6	2598.1	2587.1
40°	6357.6	3723.8	2661.4	2675.2	2677.9	2713.7	2622.9	2581.6	2600.8	2576.1	2592.6
42.5°	6668.6	3734.8	2587.1	2576.1	2628.4	2614.6	2570.6	2515.5	2526.5	2452.2	2463.2
45°	6833.8	3809.1	2543.1	2493.5	2551.3	2548.6	2490.8	2438.5	2372.4	2229.3	2234.8
47.5°	6943.9	3828.3	2438.5	2405.4	2466.0	2501.8	2435.7	2314.6	2221.0	2119.2	2094.4
50°	7056.7	3864.1	2388.9	2320.1	2344.9	2430.2	2347.6	2232.1	2141.2	2050.4	2064.2
52.5°	7155.8	3932.9	2292.6	2190.8	2234.8	2328.4	2284.3	2144.0	2044.9	1970.6	1948.6
55°	7596.1	4087.0	2130.2	1998.1	2102.7	2221.0	2196.3	2025.6	1918.3	1879.8	1874.3
56°	7664.9	4092.6	2044.9	1932.1	2028.4	2185.3	2155.0	1973.3	1877.0	1816.5	1819.2
57.5°	7675.9	4026.5	1923.8	1871.5	1954.1	2133.0	2094.4	1932.1	1800.0	1744.9	1728.4
60°	6754.0	3143.0	1772.4	1739.4	1835.7	1973.3	1959.6	1819.2	1670.6	1607.3	1637.6
62.5°	4604.5	2303.6	1654.1	1648.6	1698.1	1833.0	1797.2	1670.6	1546.7	1505.5	1486.2
65°	2680.7	1747.7	1538.5	1516.5	1557.8	1629.3	1654.1	1522.0	1392.6	1365.1	1356.8
67.5°	1582.5	1444.9	1389.9	1354.1	1340.3	1384.4	1403.6	1326.6	1197.2	1158.7	1191.7
70°	1323.8	1285.3	1288.0	1227.5	1194.5	1164.2	1147.7	1078.9	971.5	922.0	908.2
72.5°	1142.2	1125.7	1114.6	1059.6	1029.3	960.5	889.0	820.2	740.3	699.1	701.8
75°	872.5	866.9	872.5	844.9	792.6	737.6	671.5	583.5	522.9	470.6	481.6
77.5°	520.2	536.7	544.9	533.9	511.9	462.4	421.1	363.3	305.5	264.2	258.7
80°	357.8	371.5	385.3	371.5	349.5	313.8	269.7	225.7	184.4	162.4	156.9
82.5°	272.5	286.2	294.5	280.7	253.2	214.7	184.4	154.1	121.1	99.1	93.6
85°	99.1	112.8	110.1	132.1	143.1	137.6	118.3	90.8	68.8	49.5	46.8
87.5°	27.5	24.8	27.5	27.5	27.5	24.8	22.0	22.0	22.0	13.8	11.0
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)