

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: P300913

Luminaire Tested: **GLNA-AF-03-LED-E1-SL4-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-03-LED-E1-SL4-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13446.5 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

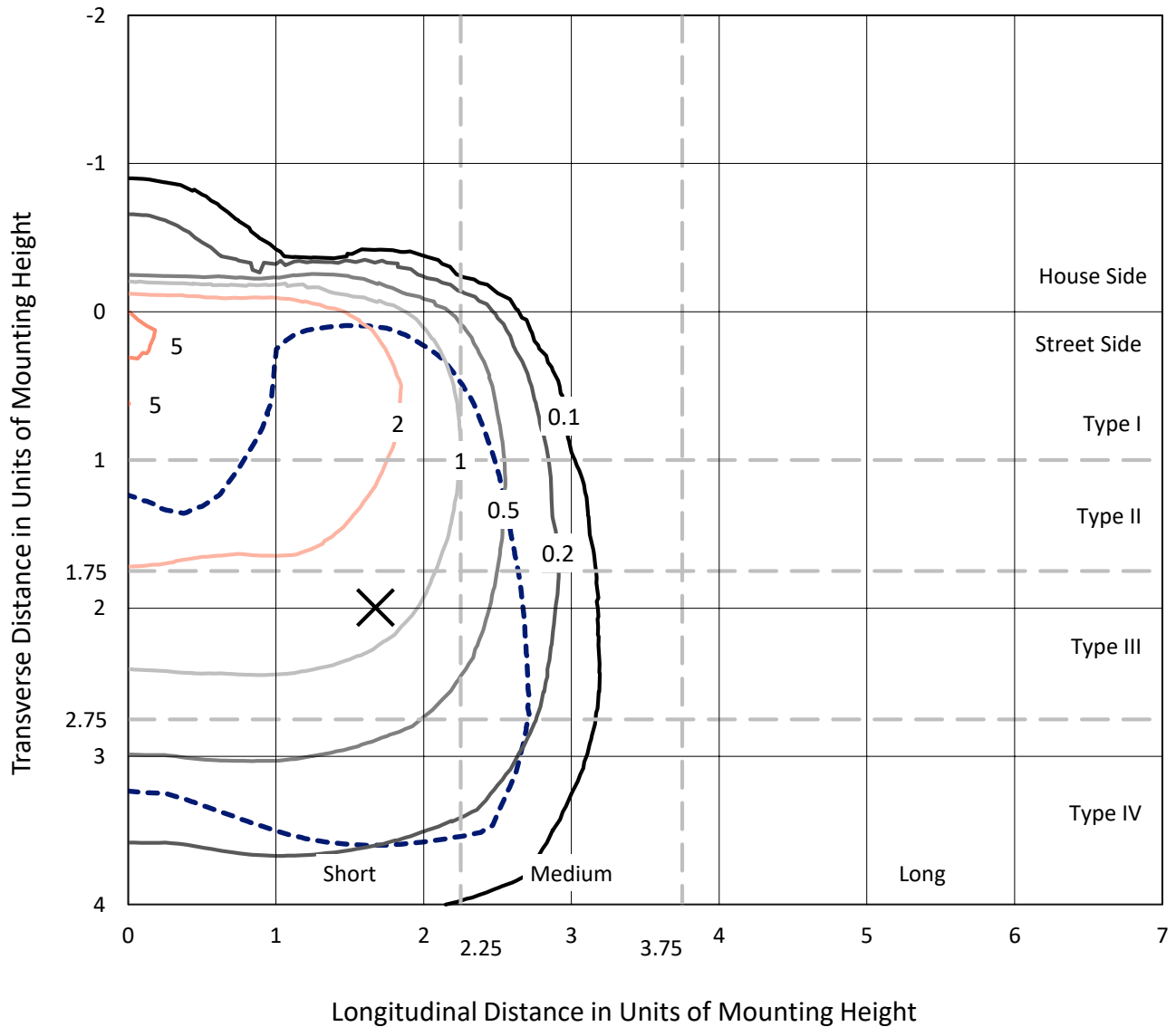
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P300913
 CATALOG NUMBER: GLNA-AF-03-LED-E1-SL4-7030-800

Iso-Footcandle Lines of Horizontal Illumination

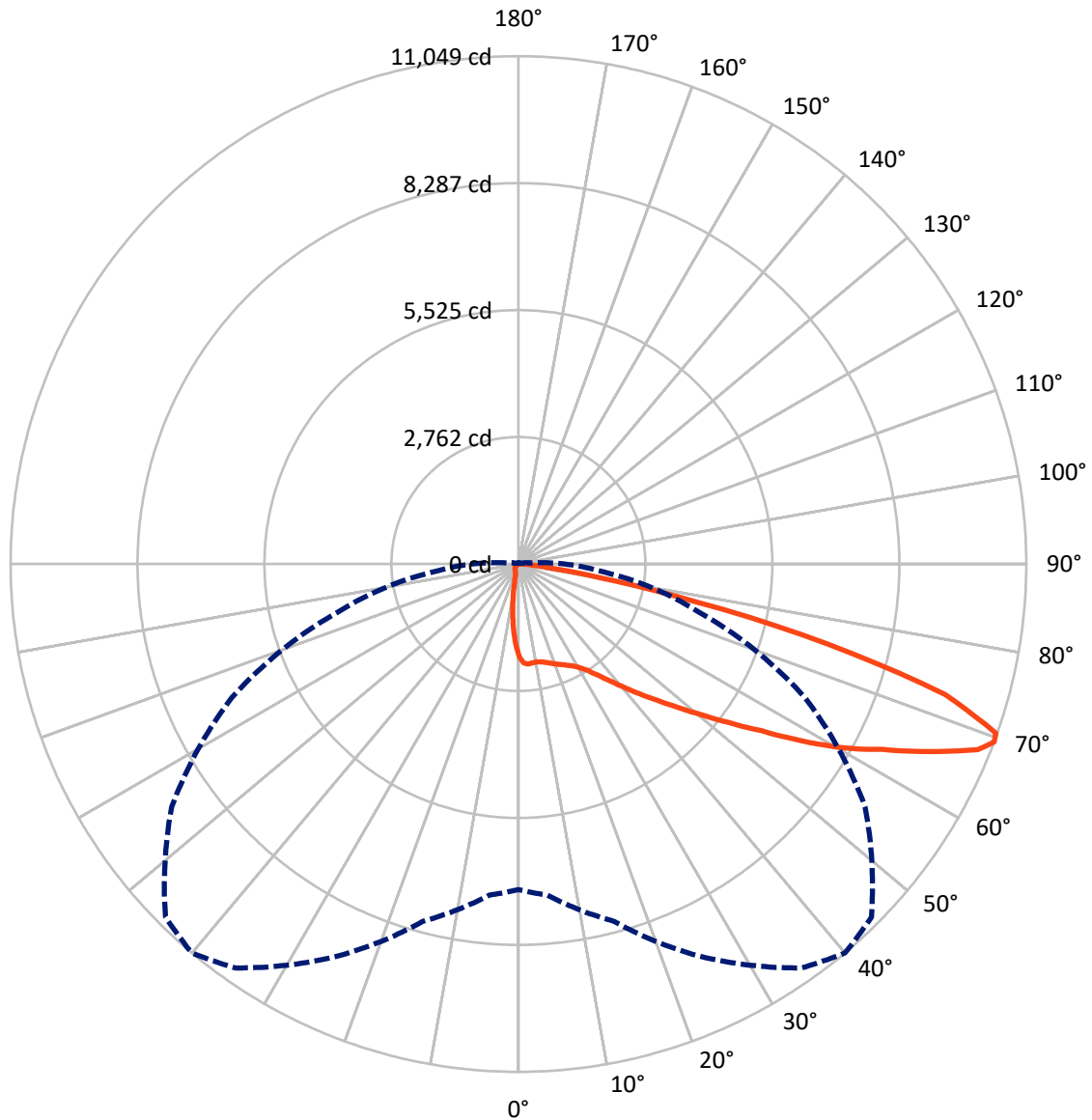
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P300913
CATALOG NUMBER: GLNA-AF-03-LED-E1-SL4-7030-800

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P300913

CATALOG NUMBER: GLNA-AF-03-LED-E1-SL4-7030-800

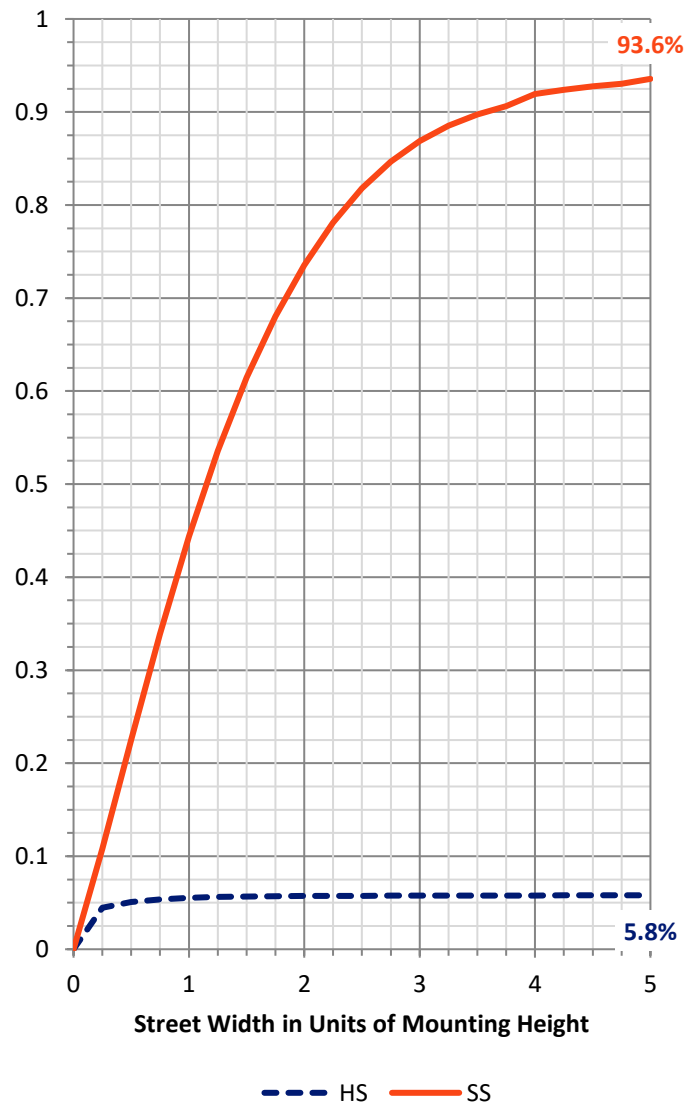
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	786.7	0.0	786.7
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	12659.8	0.0	12659.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	13446.5	0.0	13446.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.9	1.2
10°-20°	400.6	3.0
20°-30°	674.7	5.0
30°-40°	1104.5	8.2
40°-50°	1912.4	14.2
50°-60°	3012.2	22.4
60°-70°	3933.9	29.3
70°-80°	2026.1	15.1
80°-90°	219.2	1.6
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°	13446.5	100.0
0°-180°	13446.5	100.0

Coefficient of Utilization



REPORT NUMBER: P300913

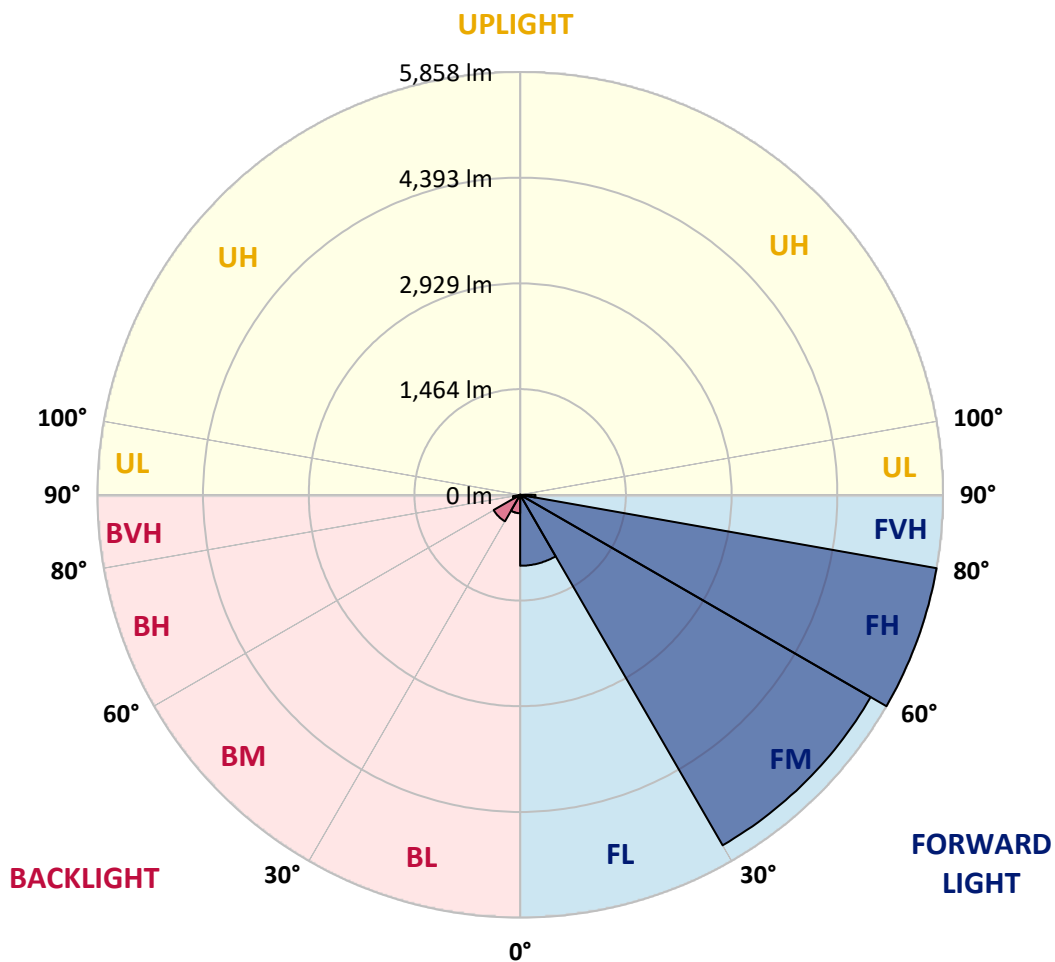
CATALOG NUMBER: GLNA-AF-03-LED-E1-SL4-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	983.3	7.3			
FM	(30°-60°)	5606.3	41.7			
FH	(60°-80°)	5857.8	43.6			G3/7500
FVH	(80°-90°)	212.3	1.6			G2/225
BL	(0°-30°)	254.8	1.9	B1/500		
BM	(30°-60°)	422.8	3.1	B1/1000		
BH	(60°-80°)	102.1	0.8	B0/110		G0/110
BVH	(80°-90°)	6.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P300913

CATALOG NUMBER: GLNA-AF-03-LED-E1-SL4-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2009.0	2009.0	2009.0	2009.0	2009.0	2009.0	2009.0	2009.0	2009.0	2009.0	2009.0
2.5°	2205.9	2193.9	2186.7	2177.1	2165.1	2154.6	2150.6	2121.0	2093.0	2054.6	2010.6
5°	2246.7	2242.7	2229.9	2217.1	2202.7	2186.7	2177.9	2142.6	2102.6	2046.6	1969.8
7.5°	2250.7	2245.9	2229.9	2212.3	2192.3	2173.1	2157.8	2122.6	2085.8	2029.0	1935.3
10°	2244.3	2238.7	2226.7	2207.5	2182.7	2164.3	2149.0	2115.4	2084.2	2033.0	1928.9
12.5°	2237.1	2231.5	2225.9	2216.3	2194.7	2181.9	2169.1	2137.0	2109.0	2065.8	1952.1
15°	2244.3	2241.1	2247.5	2243.5	2231.5	2220.3	2207.5	2178.7	2153.0	2117.0	1994.6
17.5°	2274.7	2274.7	2294.7	2297.1	2285.9	2269.9	2251.5	2222.7	2201.1	2170.7	2045.0
20°	2345.9	2343.5	2369.1	2374.0	2346.7	2321.9	2294.7	2259.5	2242.7	2223.5	2094.6
22.5°	2468.4	2457.2	2472.4	2467.6	2414.0	2375.6	2341.9	2298.7	2289.9	2281.1	2149.8
25°	2627.7	2621.3	2631.7	2584.5	2490.0	2438.0	2398.0	2349.1	2349.1	2357.9	2212.3
27.5°	2859.0	2835.0	2799.8	2716.5	2574.8	2508.4	2465.2	2413.2	2426.8	2459.6	2294.7
30°	3095.9	3069.5	2988.7	2860.6	2678.1	2608.5	2558.0	2503.6	2535.6	2595.7	2405.2
32.5°	3329.6	3300.0	3185.5	3023.9	2826.2	2756.5	2707.7	2647.7	2701.3	2802.2	2566.8
35°	3556.1	3529.7	3397.6	3207.2	3023.1	2965.4	2920.6	2868.6	2937.4	3078.3	2795.0
37.5°	3810.6	3781.8	3621.0	3414.5	3262.4	3220.8	3187.9	3135.9	3256.0	3462.5	3112.7
40°	4123.6	4074.8	3857.9	3652.2	3539.3	3519.3	3496.9	3489.7	3676.2	3961.9	3536.1
42.5°	4482.2	4402.1	4106.0	3902.7	3843.5	3857.9	3852.3	3884.3	4202.0	4583.0	4051.6
45°	4840.7	4737.5	4382.1	4170.0	4178.0	4228.5	4259.7	4387.7	4860.8	5295.4	4606.2
47.5°	5144.9	5043.2	4647.1	4459.0	4555.0	4654.3	4739.1	4981.6	5537.9	5996.5	5037.6
50°	5405.0	5309.0	4928.0	4776.7	4992.8	5152.9	5290.6	5649.9	6266.2	6530.4	5340.2
52.5°	5617.9	5553.9	5219.3	5140.9	5493.1	5727.6	5929.3	6359.9	6911.4	6964.2	5575.5
55°	5825.2	5779.6	5532.3	5573.9	6080.6	6399.9	6655.2	7113.1	7466.8	7326.0	5801.2
57.5°	6063.7	6022.1	5889.3	6123.0	6852.9	7254.7	7533.3	7780.6	7955.9	7695.7	6014.1
60°	6307.1	6283.0	6286.3	6732.9	7739.8	8125.5	8279.2	8343.2	8436.1	8043.9	6026.1
62.5°	6539.2	6584.8	6740.1	7411.6	8589.0	8885.1	8962.8	9026.0	8917.1	8099.1	5567.5
65°	6932.2	7006.6	7377.2	8320.0	9523.0	9840.0	9920.0	9703.1	8993.2	7385.2	4528.6
67.5°	7124.3	7260.3	7921.4	9166.8	10429.1	10781.2	10751.6	9747.1	8070.3	5631.5	2906.2
69°	7084.2	7229.1	8047.1	9426.2	10730.0	11049.4	10861.3	9208.5	6875.3	4079.6	1784.1
70°	6925.8	7072.2	7982.3	9416.6	10768.4	11021.3	10658.0	8543.3	5813.2	2983.0	1115.7
72.5°	5783.6	5910.1	7086.6	8511.3	9920.0	9714.3	8916.3	5918.9	2832.6	812.4	251.3
75°	3560.1	3630.6	5084.9	6411.9	7492.4	6964.2	5940.5	2944.6	844.4	229.7	139.3
77.5°	1880.9	1912.9	2783.8	3779.4	4749.5	3929.9	3044.7	1148.6	389.0	144.1	100.8
80°	1111.7	1135.8	1499.1	1728.0	2055.4	1716.8	1217.4	705.1	278.5	90.4	89.6
82.5°	636.3	651.5	1086.9	960.5	810.0	691.5	605.9	668.3	167.3	60.8	92.8
85°	233.7	236.9	611.5	730.8	481.8	286.5	300.9	553.9	44.8	38.4	72.8
87.5°	108.9	106.5	314.6	447.4	281.7	181.7	234.5	121.7	17.6	24.8	20.0
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: P300913

CATALOG NUMBER: GLNA-AF-03-LED-E1-SL4-7030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2009.0	2009.0	2009.0	2009.0	2009.0	2009.0	2009.0	2009.0	2009.0	2009.0	2009.0
2.5°	1985.0	1955.3	1901.7	1846.5	1790.5	1747.2	1704.8	1671.2	1660.0	1639.2	1640.8
5°	1924.1	1869.7	1757.7	1644.0	1525.5	1427.9	1335.8	1261.4	1225.4	1188.6	1188.6
7.5°	1871.3	1792.1	1616.8	1431.9	1240.6	1079.7	934.9	826.0	766.0	717.9	717.1
10°	1851.3	1744.0	1499.1	1234.2	967.7	748.4	576.3	465.8	409.0	372.2	370.6
12.5°	1860.1	1727.2	1408.7	1051.7	717.1	481.0	333.8	262.5	238.5	227.3	227.3
15°	1885.7	1722.4	1318.2	873.2	506.6	300.9	221.7	202.5	200.9	200.9	200.9
17.5°	1916.9	1724.0	1225.4	699.5	345.0	215.3	191.3	188.9	190.5	190.5	190.5
20°	1948.9	1724.8	1125.3	538.7	243.3	187.3	180.1	179.3	180.9	180.9	181.7
22.5°	1988.2	1728.8	1025.3	402.6	200.9	176.9	171.3	171.3	172.1	172.1	171.3
25°	2033.0	1736.8	921.2	298.5	183.3	169.7	164.9	164.1	164.9	164.1	163.3
27.5°	2089.0	1748.0	805.2	233.7	175.3	162.5	158.5	158.5	157.7	156.9	156.1
30°	2159.4	1760.9	674.7	198.5	167.3	156.1	152.1	151.3	150.5	148.9	148.9
32.5°	2266.7	1788.9	545.9	180.1	158.5	147.3	144.1	144.1	142.5	140.9	140.1
35°	2431.6	1844.1	430.6	168.9	148.9	137.7	133.7	133.7	132.1	131.3	130.5
37.5°	2659.7	1928.1	334.6	158.5	139.3	127.3	123.3	122.5	120.9	119.3	118.5
40°	2963.0	2032.2	263.3	148.9	129.7	116.9	113.7	112.1	108.9	106.5	106.5
42.5°	3344.0	2150.6	213.7	138.5	118.5	107.3	104.9	102.4	96.8	94.4	93.6
45°	3742.6	2257.1	180.9	126.5	107.3	97.6	96.0	92.0	84.8	82.4	82.4
47.5°	4030.0	2281.9	159.3	115.3	96.8	87.2	86.4	79.2	72.8	71.2	70.4
50°	4209.2	2233.1	141.7	104.1	87.2	77.6	75.2	66.4	62.4	60.8	60.0
52.5°	4330.1	2145.8	127.3	94.4	78.4	68.8	63.2	56.8	53.6	52.0	52.0
55°	4426.9	2022.6	112.9	85.6	71.2	61.6	53.6	48.8	45.6	44.0	44.0
57.5°	4454.2	1855.3	98.4	78.4	64.0	54.4	45.6	42.4	38.4	37.6	37.6
60°	4256.5	1553.6	87.2	69.6	57.6	47.2	40.0	36.0	32.0	31.2	30.4
62.5°	3735.4	1202.2	76.8	61.6	50.4	40.8	34.4	29.6	26.4	26.4	26.4
65°	2849.4	806.0	67.2	53.6	44.0	34.4	29.6	24.0	22.4	22.4	23.2
67.5°	1705.6	438.6	57.6	45.6	37.6	28.8	24.8	20.8	20.0	20.8	20.8
69°	999.7	257.7	52.0	40.8	32.8	25.6	21.6	18.4	20.0	20.8	20.8
70°	617.1	173.7	48.0	36.8	29.6	23.2	20.0	17.6	19.2	20.0	20.0
72.5°	172.1	89.6	38.4	28.8	24.0	19.2	16.0	16.0	18.4	19.2	19.2
75°	112.1	66.4	29.6	21.6	18.4	15.2	13.6	15.2	17.6	18.4	18.4
77.5°	92.8	54.4	24.0	17.6	15.2	14.4	12.8	13.6	16.0	16.8	16.8
80°	84.8	38.4	19.2	16.0	13.6	12.8	12.0	11.2	14.4	15.2	15.2
82.5°	80.8	30.4	16.8	14.4	12.8	11.2	10.4	11.2	12.8	13.6	14.4
85°	50.4	20.0	15.2	13.6	11.2	10.4	10.4	10.4	12.0	12.8	12.8
87.5°	18.4	16.0	13.6	11.2	9.6	9.6	9.6	9.6	10.4	12.0	12.0
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)