

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: STREETWORKS

Report Number: P322518

Luminaire Tested: **GAN-SA4B-730-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14908 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

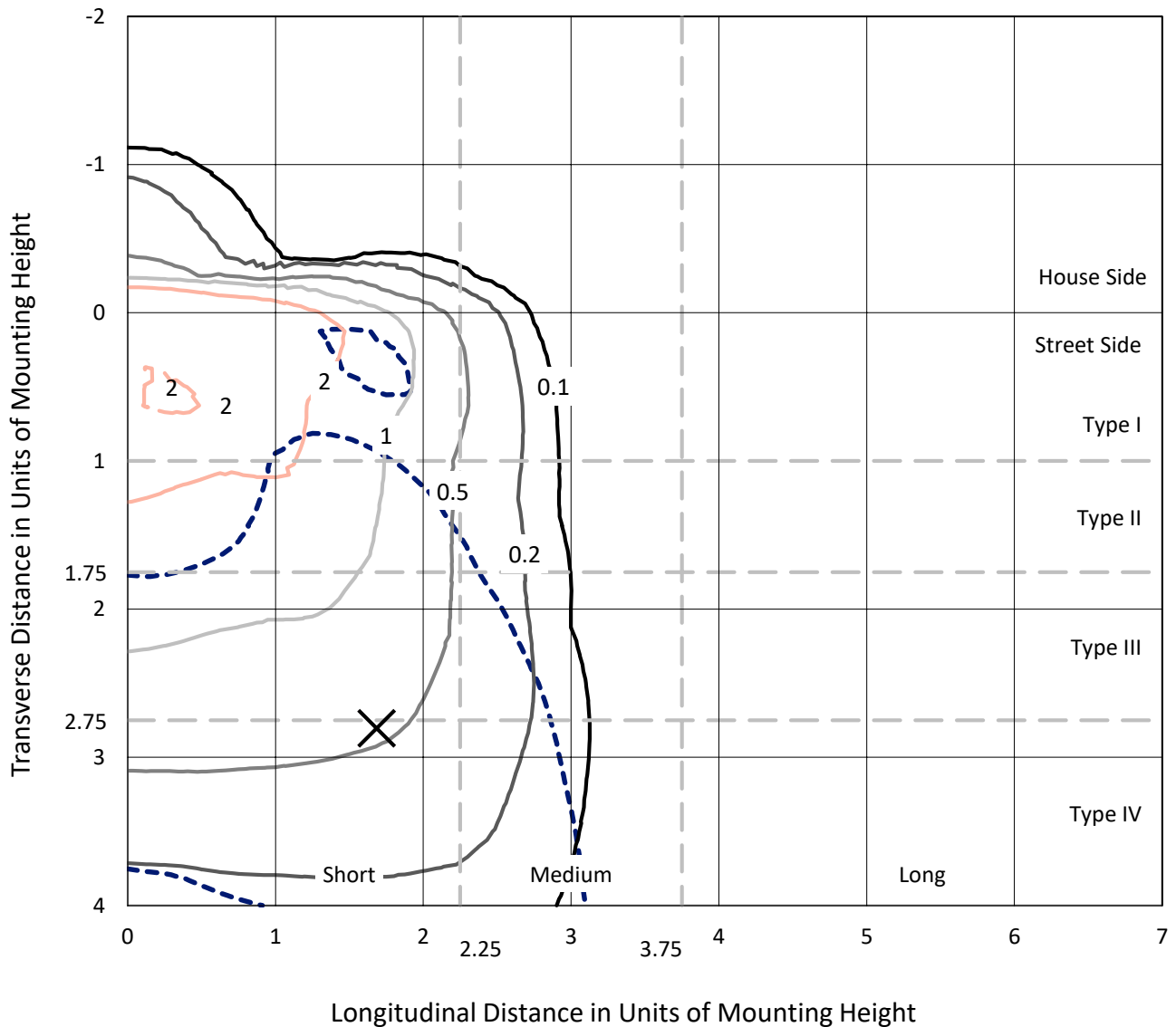
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322518
 CATALOG NUMBER: GAN-SA4B-730-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

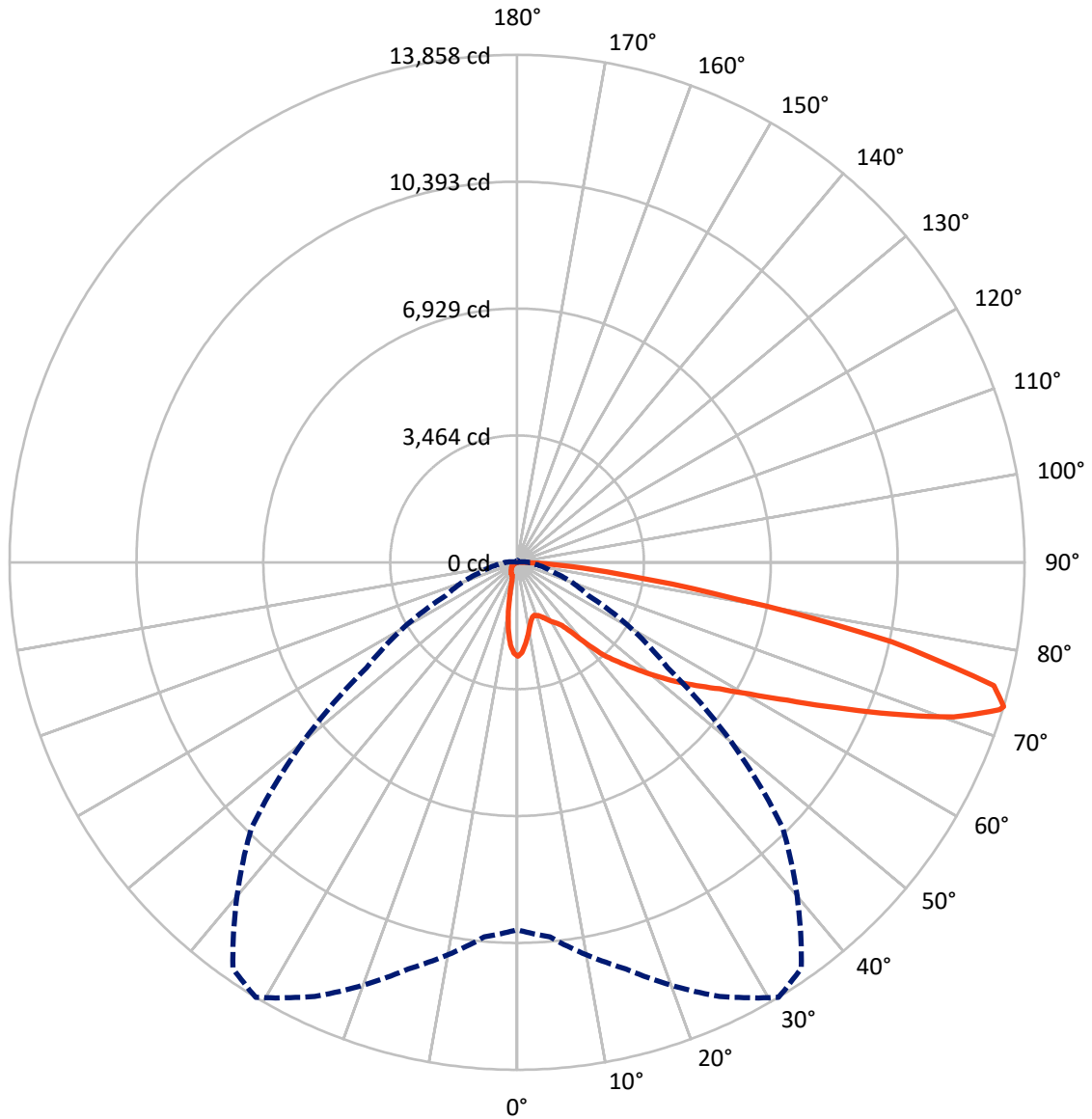
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P322518
CATALOG NUMBER: GAN-SA4B-730-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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 CATALOG NUMBER: GAN-SA4B-730-U-T4FT-HSS

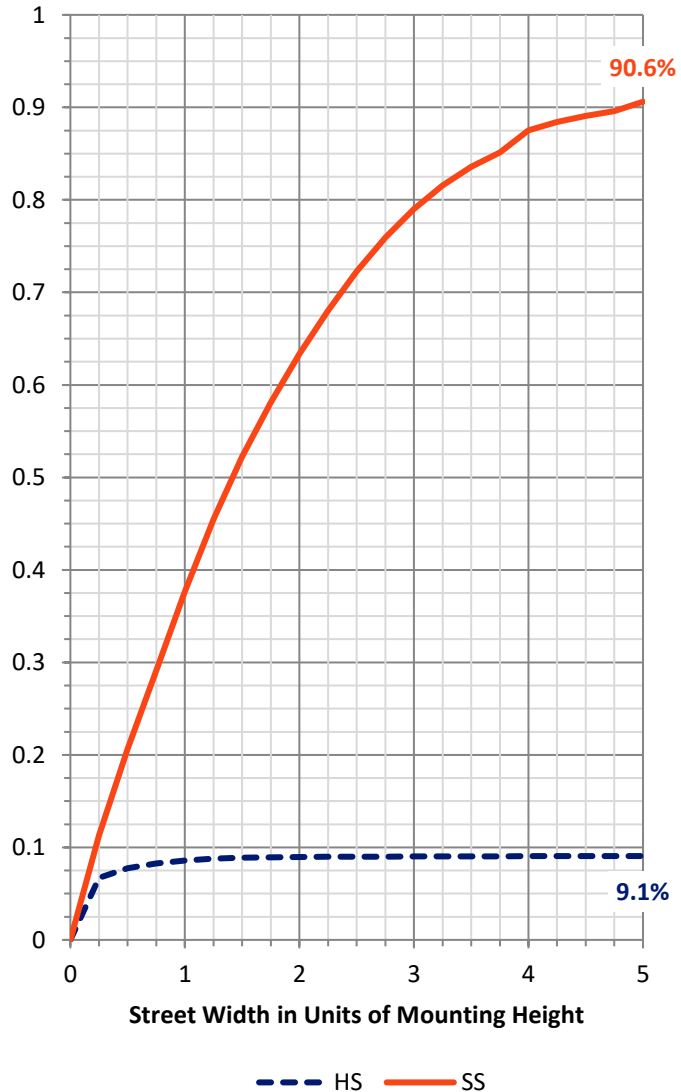
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1358.9	0.0	1358.9
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	13549.1	0.0	13549.1
	% Fixture	90.9	0.0	90.9
Total	Lumens	14908.0	0.0	14908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.7	1.4
10°-20°	461.8	3.1
20°-30°	691.9	4.6
30°-40°	1100.8	7.4
40°-50°	1965.7	13.2
50°-60°	3050.1	20.5
60°-70°	4054.7	27.2
70°-80°	3050.0	20.5
80°-90°	320.5	2.1
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°	14908.0	100.0
0°-180°	14908.0	100.0

Coefficient of Utilization

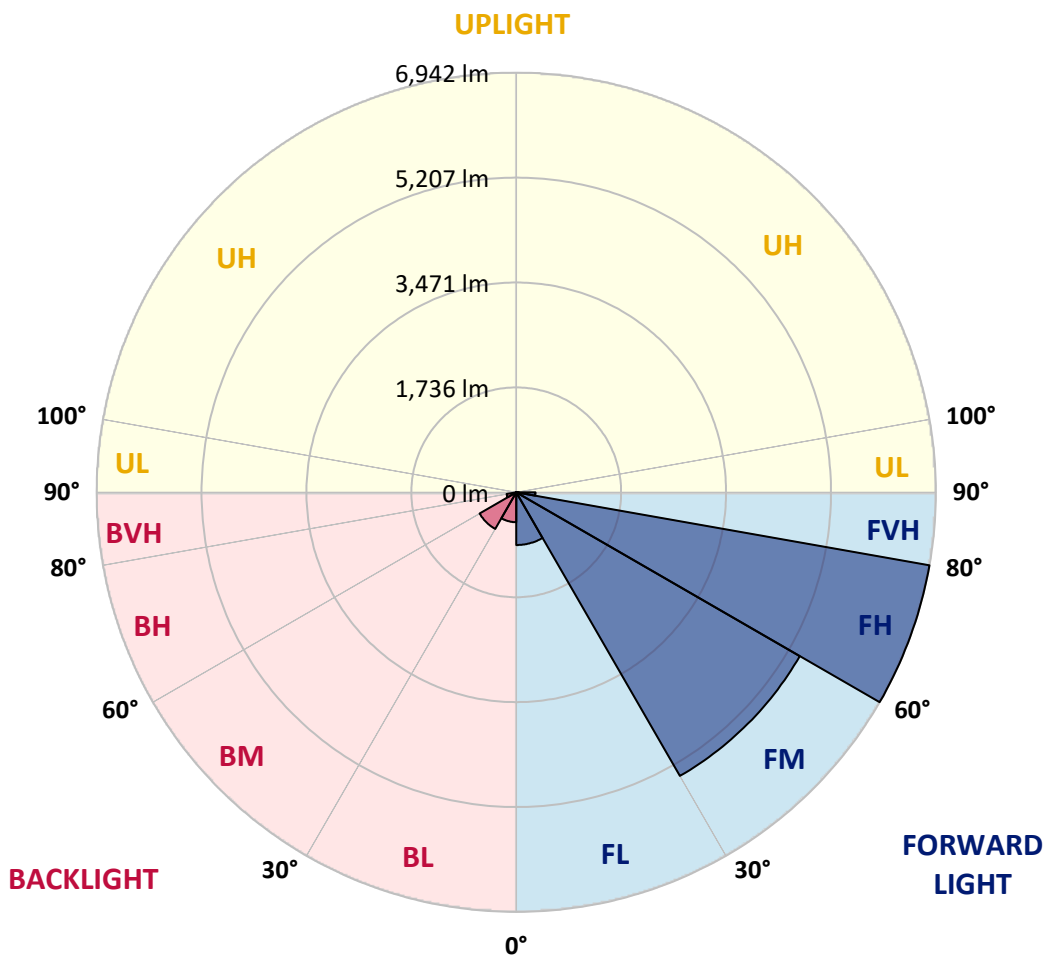


REPORT NUMBER: P322518
 CATALOG NUMBER: GAN-SA4B-730-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	872.1	5.9			
FM (30°-60°)	5417.1	36.3			
FH (60°-80°)	6942.1	46.6			G3/7500
FVH (80°-90°)	317.8	2.1			G3/500
BL (0°-30°)	494.2	3.3	B1/500		
BM (30°-60°)	699.5	4.7	B1/1000		
BH (60°-80°)	162.6	1.1	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			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





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 CATALOG NUMBER: GAN-SA4B-730-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0
2.5°	2430.7	2440.9	2451.9	2454.1	2472.3	2473.0	2499.3	2519.0	2538.7	2557.7	2564.2
5°	2181.2	2198.0	2217.7	2237.4	2276.1	2291.4	2355.6	2421.2	2484.0	2543.8	2573.0
7.5°	1915.0	1933.9	1961.6	2010.5	2053.6	2083.5	2184.9	2301.6	2418.3	2528.5	2591.9
10°	1672.0	1689.5	1718.7	1770.5	1836.9	1877.8	2014.2	2176.1	2347.6	2514.6	2620.4
12.5°	1517.4	1526.9	1542.9	1598.4	1658.2	1704.1	1864.6	2065.2	2289.2	2513.9	2666.4
15°	1488.9	1491.8	1478.7	1503.5	1550.2	1594.7	1757.4	1975.5	2244.7	2525.6	2726.2
17.5°	1534.2	1532.7	1488.9	1486.0	1523.2	1559.7	1704.9	1913.5	2213.3	2552.6	2803.5
20°	1602.7	1597.6	1521.8	1507.9	1547.3	1581.6	1701.2	1890.2	2201.7	2597.8	2897.6
22.5°	1693.9	1685.2	1566.3	1551.7	1594.0	1629.7	1746.4	1912.8	2211.9	2658.3	3007.0
25°	1807.0	1793.9	1642.9	1626.8	1669.8	1705.6	1827.4	1977.7	2242.5	2732.0	3145.6
27.5°	1934.7	1915.7	1765.4	1723.8	1772.7	1809.9	1935.4	2076.9	2290.7	2810.1	3315.6
30°	2055.0	2030.2	1894.5	1826.0	1885.8	1927.4	2052.1	2195.1	2368.0	2930.4	3548.3
32.5°	2176.1	2148.4	2009.8	1928.1	1982.1	2027.3	2172.5	2357.8	2513.2	3114.3	3857.6
35°	2454.8	2425.6	2255.6	2120.7	2120.0	2145.5	2341.0	2580.3	2705.0	3370.3	4226.8
37.5°	2923.9	2907.1	2745.1	2489.1	2420.5	2392.1	2570.8	2845.8	2980.8	3722.7	4643.3
40°	3437.4	3422.9	3241.2	3009.2	2904.9	2834.9	2900.5	3215.7	3370.3	4153.1	5068.6
42.5°	4017.4	3948.1	3624.2	3554.9	3461.5	3408.3	3349.2	3671.6	3848.9	4621.4	5490.3
45°	4544.1	4427.4	4007.2	3902.1	3881.0	3894.1	3926.9	4284.4	4387.3	5178.1	5910.5
47.5°	4857.8	4765.9	4443.4	4342.8	4336.9	4423.7	4671.8	4976.7	4923.5	5663.2	6280.3
50°	5156.2	5073.0	4805.3	4830.1	4857.1	4975.2	5517.3	5688.7	5413.0	6103.1	6619.6
52.5°	5397.6	5270.7	5130.6	5270.0	5402.7	5593.1	6389.8	6327.8	5760.2	6453.2	6909.9
55°	5537.0	5479.3	5547.2	5687.2	5936.7	6246.1	7213.4	6859.6	6014.1	6772.8	7103.2
57.5°	6047.6	5934.6	6069.5	6190.6	6516.0	6948.6	7918.8	7255.7	6197.2	6970.5	7147.7
60°	6665.5	6574.3	6653.8	6855.2	7294.4	7802.8	8578.3	7578.9	6292.7	7097.4	7032.5
62.5°	7648.9	7528.5	7478.9	7704.3	8286.5	8841.6	9078.7	7802.8	6271.6	7041.2	6637.1
65°	8966.4	8841.6	8619.9	8824.1	9564.6	9956.3	9638.3	7850.2	6125.7	6586.7	5637.6
67.5°	10316.0	10225.5	10035.8	10380.2	11048.4	11174.6	10229.9	7735.0	5655.9	5340.7	3983.1
70°	11207.4	11168.8	11292.1	12053.7	12649.7	12613.2	10772.7	7115.6	4408.4	3284.2	1970.4
72.5°	10564.7	10750.0	11660.5	13041.4	13769.5	13471.8	10494.0	5464.0	2519.7	1263.5	569.7
73°	10032.2	10269.3	11494.9	13078.6	13857.7	13531.7	10259.8	5015.4	2147.7	997.2	431.9
75°	6979.2	7270.3	9516.4	12180.6	13444.8	12892.6	8552.0	3069.8	995.0	442.1	174.4
77.5°	3388.6	3603.8	5240.1	8800.8	10456.0	10073.1	5324.0	1143.9	449.4	276.5	80.2
80°	1265.0	1406.5	2274.6	4479.2	6042.5	6200.8	2341.7	432.6	299.1	222.5	40.9
82.5°	331.2	369.1	838.9	1997.4	3096.8	3241.2	738.3	218.1	218.9	183.1	24.8
85°	105.8	121.1	261.9	896.6	1459.0	1281.0	192.6	105.8	159.0	136.4	13.9
87.5°	13.1	16.8	83.2	210.8	321.7	178.7	29.9	31.4	67.8	75.9	8.0
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°	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0
2.5°	2570.8	2567.1	2567.9	2548.9	2536.5	2511.7	2486.2	2474.5	2462.1	2457.0	2462.1
5°	2583.9	2577.4	2558.4	2500.0	2438.0	2357.8	2282.6	2225.7	2154.2	2134.5	2155.0
7.5°	2604.3	2591.2	2535.8	2416.9	2279.0	2125.8	1953.6	1828.1	1725.3	1658.9	1683.0
10°	2634.3	2609.5	2497.8	2295.8	2049.2	1777.8	1533.4	1343.0	1208.1	1152.6	1150.4
12.5°	2684.6	2637.9	2451.1	2138.2	1768.3	1406.5	1086.2	879.8	770.4	699.6	698.1
15°	2740.0	2671.5	2392.1	1949.2	1441.5	1007.5	699.6	542.8	472.0	449.4	446.5
17.5°	2807.9	2710.1	2315.5	1716.5	1099.4	667.5	456.7	411.4	408.5	406.3	406.3
20°	2893.2	2756.1	2217.0	1450.3	779.8	445.7	388.1	391.0	392.5	389.6	390.3
22.5°	2992.4	2802.8	2099.5	1164.3	527.4	372.8	371.3	375.0	376.4	375.0	375.7
25°	3107.7	2856.8	1956.5	864.5	380.8	353.8	357.5	362.6	366.2	366.2	366.2
27.5°	3250.7	2922.4	1784.4	603.3	329.0	334.1	344.3	353.8	358.9	360.4	360.4
30°	3436.7	3004.1	1577.9	413.6	299.1	307.9	326.8	345.1	354.5	356.0	356.7
32.5°	3671.6	3096.0	1338.6	305.7	273.6	280.1	300.6	331.2	349.4	352.4	352.4
35°	3940.8	3202.5	1081.1	266.3	255.3	257.5	273.6	308.6	340.7	348.7	349.4
37.5°	4235.5	3307.6	822.2	248.8	240.0	240.0	251.7	281.6	319.5	344.3	347.2
40°	4510.6	3371.1	576.3	234.9	226.1	226.1	236.4	258.2	294.0	331.2	339.2
42.5°	4764.4	3392.9	401.2	221.8	213.0	215.2	224.0	241.5	268.5	305.7	313.0
45°	5025.6	3389.3	292.5	206.5	199.9	206.5	213.0	226.1	245.8	267.0	268.5
47.5°	5222.6	3358.7	232.0	191.9	187.5	196.2	202.1	210.8	221.8	220.3	220.3
50°	5407.1	3284.2	186.8	172.2	175.1	185.3	188.2	191.1	191.9	178.0	176.5
52.5°	5547.2	3168.3	149.5	151.0	162.7	172.9	170.0	165.6	158.3	141.5	138.6
55°	5593.9	2945.0	117.5	124.7	144.4	157.6	146.6	137.1	123.3	109.4	106.5
57.5°	5509.2	2656.9	95.6	97.0	121.8	132.8	120.4	109.4	94.1	82.4	80.2
60°	5329.8	2336.6	78.8	73.0	94.1	103.6	95.6	84.6	70.8	62.0	61.3
62.5°	4973.8	1995.2	64.9	56.9	71.5	79.5	74.4	66.4	54.7	48.9	48.1
65°	4225.3	1596.2	52.5	46.0	55.4	62.0	57.6	51.8	43.0	38.7	37.9
67.5°	2949.4	1078.9	43.0	37.9	43.8	48.9	45.2	42.3	34.3	33.6	34.3
70°	1422.5	520.1	35.7	30.6	34.3	37.9	36.5	34.3	32.8	37.9	43.8
72.5°	407.8	174.4	28.5	25.5	27.7	29.9	31.4	30.6	35.7	46.0	53.3
73°	313.7	140.8	27.0	24.1	26.3	29.2	30.6	29.9	36.5	46.7	53.3
75°	134.2	67.8	20.4	19.7	21.9	25.5	27.0	27.0	36.5	47.4	51.1
77.5°	60.5	36.5	13.1	15.3	19.0	20.4	22.6	22.6	29.2	36.5	36.5
80°	34.3	19.7	10.2	11.7	13.9	13.9	13.9	12.4	13.1	14.6	16.0
82.5°	21.9	13.1	8.0	9.5	8.8	7.3	5.8	5.8	5.1	5.8	7.3
85°	12.4	7.3	7.3	5.8	3.6	2.9	3.6	2.9	0.7	0.0	0.7
87.5°	7.3	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)