

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: P691853

Luminaire Tested: **CRTK2-C01H-D-U-T2-7040-U0-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C01H-D-U-T2-7040-U0-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE II OPTIC AND U0 SHIELD WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8573 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 70.2
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

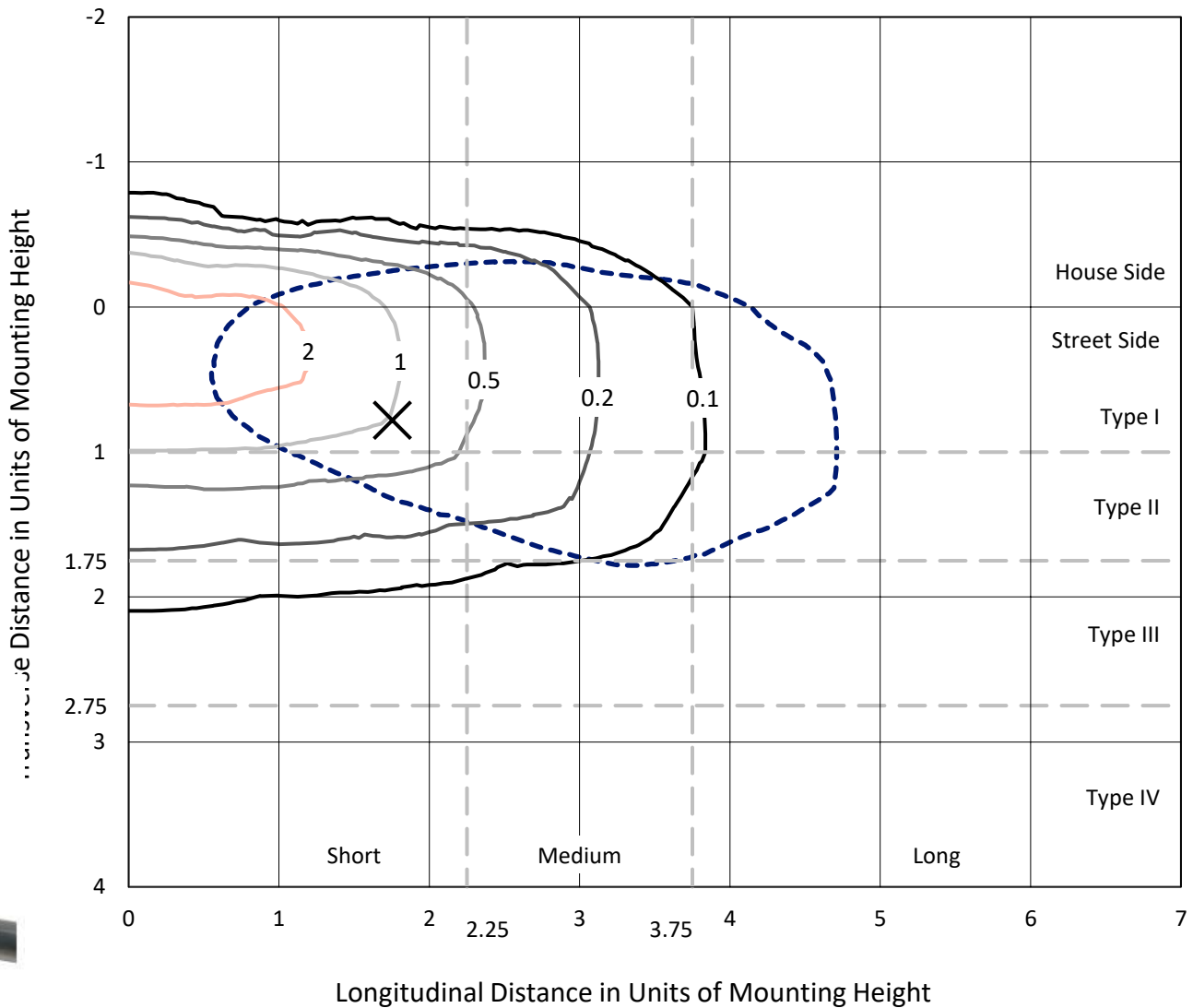


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

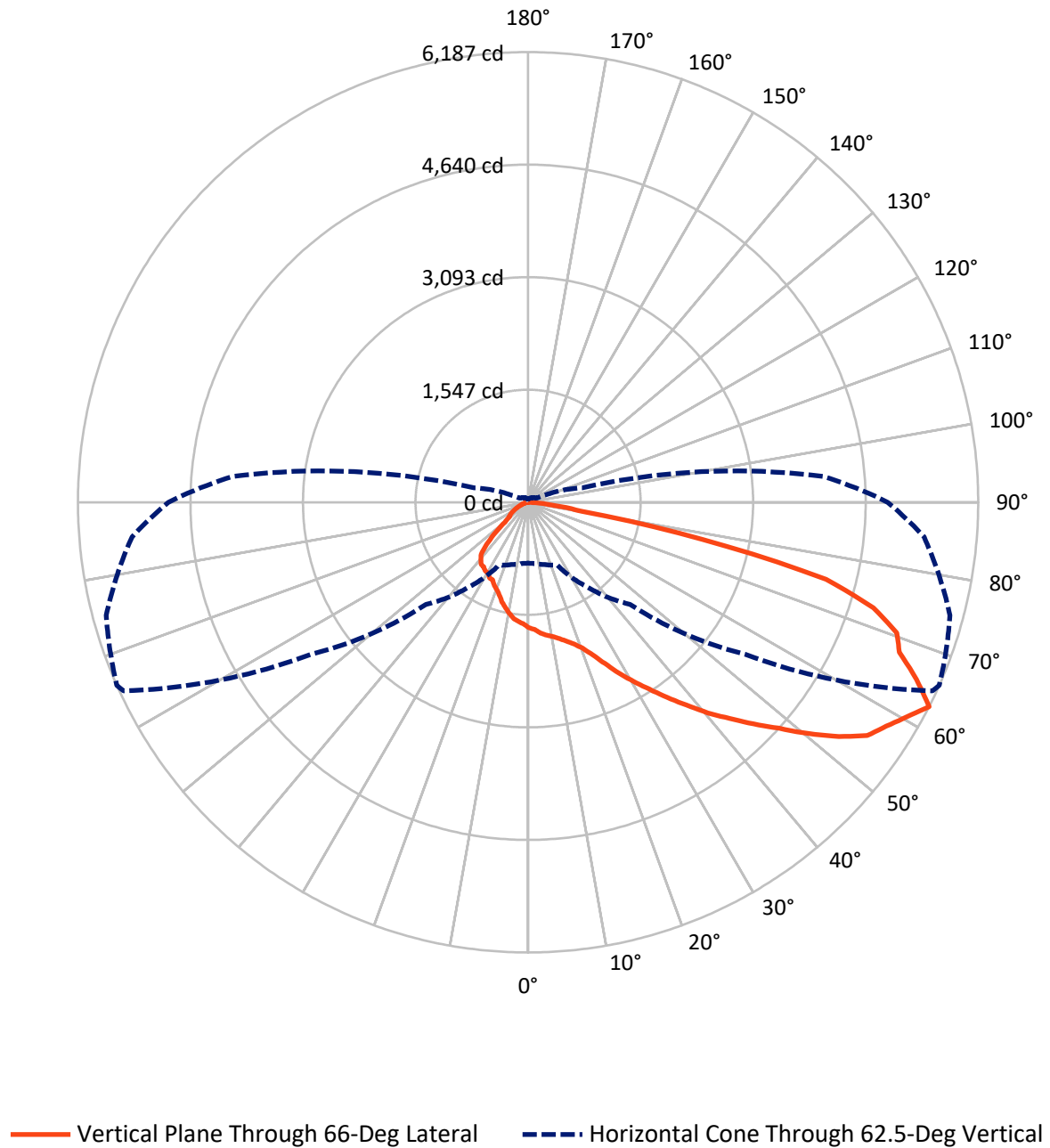


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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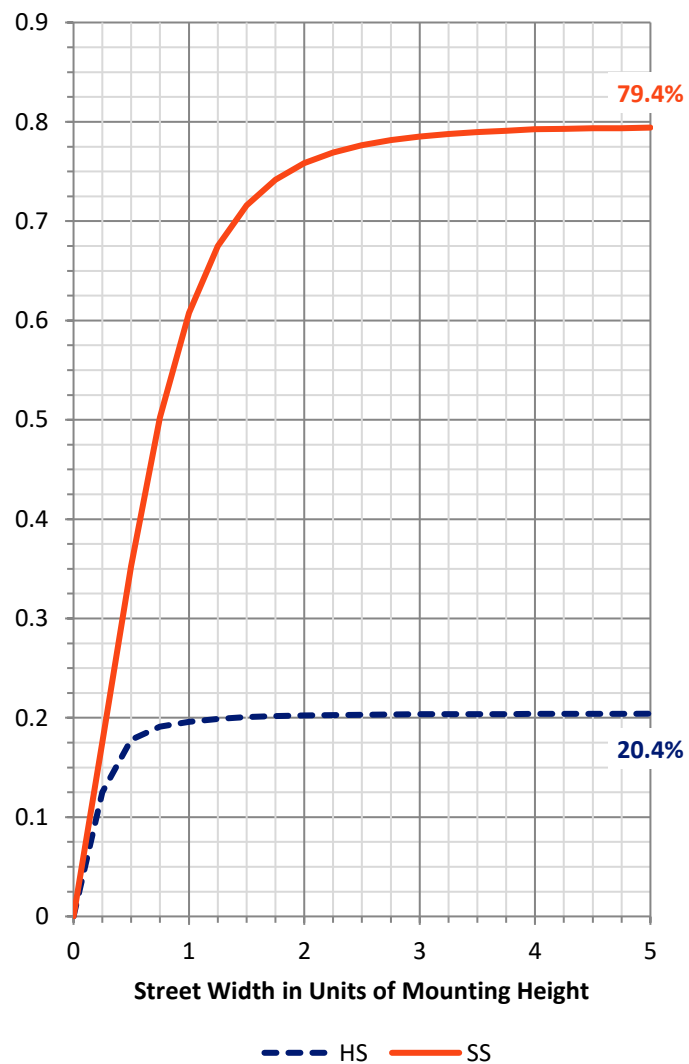
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1771.0	0.0	1771.0
	% Fixture	20.7	0.0	20.7
Street Side	Lumens	6802.0	0.0	6802.0
	% Fixture	79.3	0.0	79.3
Total	Lumens	8573.0	0.0	8573.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.9	1.9
10°-20°	464.0	5.4
20°-30°	761.3	8.9
30°-40°	1120.2	13.1
40°-50°	1477.4	17.2
50°-60°	1719.8	20.1
60°-70°	1709.0	19.9
70°-80°	1057.2	12.3
80°-90°	101.1	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°	8573.0	100.0
0°-180°	8573.0	100.0

Coefficient of Utilization



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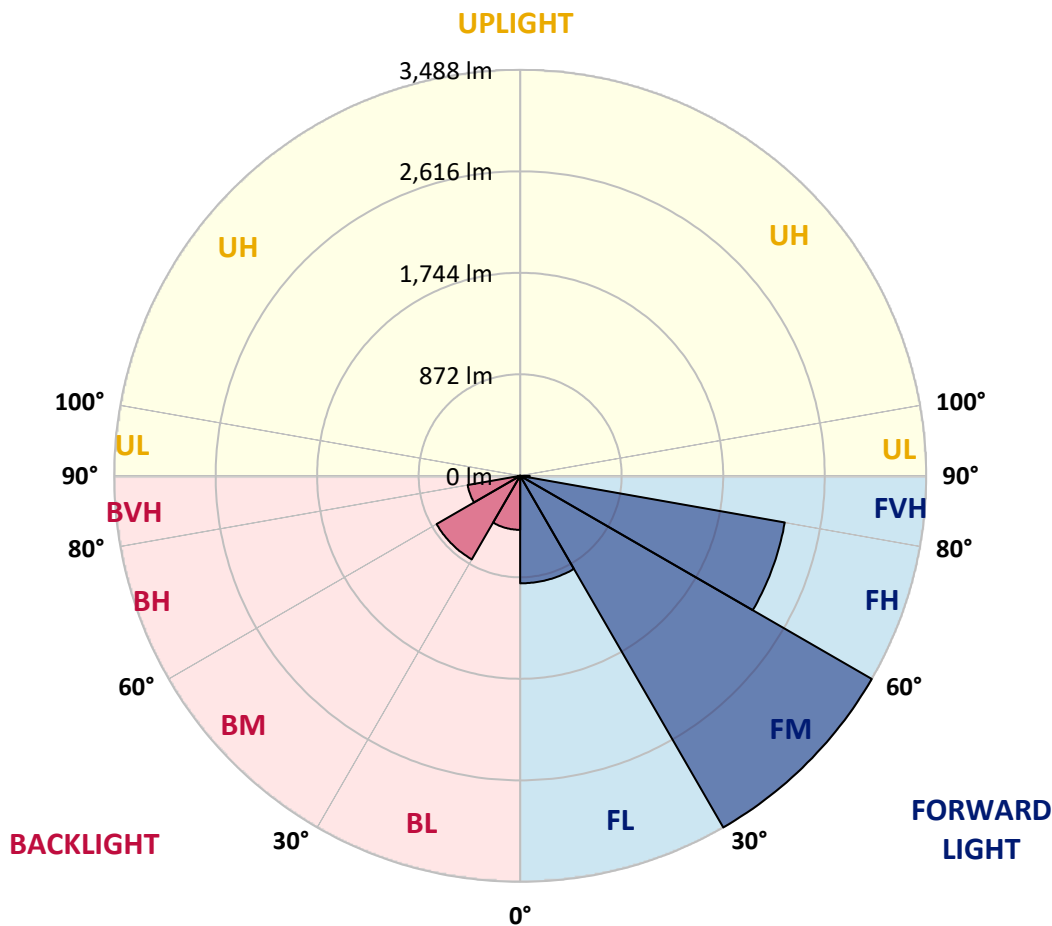
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	923.8	10.8			
FM	(30°-60°)	3488.3	40.7			
FH	(60°-80°)	2308.4	26.9			G2/5000
FVH	(80°-90°)	81.6	1.0			G1/100
BL	(0°-30°)	464.5	5.4	B1/500		
BM	(30°-60°)	829.3	9.7	B1/1000		
BH	(60°-80°)	457.8	5.3	B1/500		G1/500
BVH	(80°-90°)	19.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1725.2	1725.2	1725.2	1725.2	1725.2	1725.2	1725.2	1725.2	1725.2	1725.2	1725.2
2.5°	1822.1	1822.1	1818.9	1796.3	1786.6	1773.6	1764.0	1754.3	1751.0	1741.3	1725.2
5°	1928.7	1925.5	1925.5	1906.1	1886.7	1860.9	1835.0	1809.2	1806.0	1780.1	1744.6
7.5°	1990.1	1990.1	1983.6	1970.7	1957.8	1941.6	1902.9	1848.0	1844.7	1809.2	1760.7
10°	2006.3	2009.5	2022.4	1990.1	1980.4	1964.3	1944.9	1886.7	1877.0	1825.3	1747.8
12.5°	2064.4	2064.4	2061.2	2032.1	2022.4	2009.5	1977.2	1932.0	1922.3	1857.6	1751.0
15°	2135.5	2138.7	2129.0	2103.2	2090.3	2074.1	2032.1	1983.6	1980.4	1896.4	1776.9
17.5°	2171.0	2171.0	2177.5	2141.9	2145.2	2138.7	2119.3	2051.5	2048.3	1970.7	1822.1
20°	2183.9	2187.2	2190.4	2190.4	2193.6	2187.2	2206.6	2148.4	2138.7	2051.5	1883.5
22.5°	2242.1	2248.6	2264.7	2255.0	2271.2	2280.9	2287.3	2290.6	2277.6	2187.2	1986.9
25°	2267.9	2284.1	2306.7	2342.2	2368.1	2387.5	2435.9	2458.6	2455.3	2377.8	2158.1
27.5°	2229.2	2248.6	2326.1	2387.5	2477.9	2529.6	2620.1	2649.2	2658.9	2587.8	2342.2
30°	2280.9	2287.3	2322.9	2400.4	2513.5	2668.5	2791.3	2855.9	2855.9	2801.0	2523.2
32.5°	2200.1	2219.5	2322.9	2465.0	2639.5	2807.5	2923.8	3062.7	3062.7	3036.8	2781.6
35°	2190.4	2200.1	2261.5	2419.8	2642.7	2949.6	3104.7	3269.5	3292.1	3295.3	3036.8
37.5°	2099.9	2119.3	2229.2	2432.7	2739.6	3036.8	3253.3	3508.5	3534.4	3569.9	3250.1
40°	1999.8	2006.3	2103.2	2316.4	2717.0	3149.9	3395.5	3776.7	3805.7	3854.2	3534.4
42.5°	1851.2	1877.0	2038.6	2271.2	2707.3	3185.5	3553.8	4028.7	4061.0	4128.8	3770.2
45°	1718.7	1728.4	1848.0	2106.4	2600.7	3237.1	3676.5	4325.9	4345.3	4387.3	3967.3
47.5°	1612.1	1618.6	1738.1	1961.0	2500.6	3224.2	3796.1	4594.0	4639.3	4703.9	4199.9
50°	1292.3	1327.8	1625.0	1841.5	2326.1	3201.6	3889.7	4930.0	4997.9	5023.7	4468.0
52.5°	1101.7	1108.1	1263.2	1722.0	2145.2	3104.7	3980.2	5272.5	5350.0	5278.9	4791.1
55°	1020.9	1027.4	1098.4	1482.9	1993.3	2917.3	4048.1	5602.0	5656.9	5482.5	5033.4
57.5°	969.2	982.1	1014.4	1205.0	1812.4	2603.9	4061.0	5782.9	5805.5	5644.0	5156.2
60°	898.1	898.1	962.7	1053.2	1615.3	2267.9	3954.4	5873.4	5983.2	5828.2	5382.3
62.5°	836.7	843.2	885.2	953.1	1421.5	1983.6	3641.0	6131.8	6186.8	6002.6	5463.1
65°	765.7	772.1	810.9	878.7	1292.3	1825.3	3473.0	6028.5	5866.9	5957.4	5563.2
67.5°	684.9	688.1	726.9	788.3	1085.5	1683.2	3069.2	5634.3	5501.9	5744.2	5285.4
70°	604.1	604.1	636.4	684.9	885.2	1476.4	2536.1	5275.7	5375.9	5388.8	5010.8
72.5°	504.0	507.2	539.5	581.5	710.8	1234.1	2006.3	4917.1	4962.3	4791.1	4406.7
75°	361.8	374.8	410.3	452.3	562.1	978.9	1424.7	3996.4	4232.2	4535.9	3786.4
77.5°	54.9	54.9	67.8	103.4	184.1	491.1	659.1	2206.6	2448.9	3796.1	3308.2
80°	45.2	45.2	48.5	67.8	106.6	274.6	213.2	691.4	743.1	1744.6	1864.1
82.5°	22.6	22.6	35.5	48.5	64.6	80.8	90.5	332.8	384.5	594.4	743.1
85°	12.9	12.9	16.2	22.6	25.8	25.8	29.1	158.3	164.8	323.1	336.0
87.5°	3.2	3.2	6.5	6.5	6.5	3.2	3.2	3.2	3.2	3.2	3.2
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°	1725.2	1725.2	1725.2	1725.2	1725.2	1725.2	1725.2	1725.2	1725.2	1725.2	1725.2
2.5°	1718.7	1709.0	1689.6	1673.5	1663.8	1644.4	1628.3	1615.3	1608.9	1625.0	1628.3
5°	1722.0	1699.3	1663.8	1641.2	1615.3	1583.0	1544.3	1521.7	1512.0	1515.2	1524.9
7.5°	1728.4	1696.1	1654.1	1605.7	1537.8	1473.2	1428.0	1402.1	1389.2	1405.3	1405.3
10°	1709.0	1673.5	1615.3	1541.0	1453.8	1389.2	1337.5	1292.3	1276.1	1282.6	1285.8
12.5°	1709.0	1660.6	1563.7	1473.2	1392.4	1285.8	1208.3	1166.3	1150.1	1153.4	1159.8
15°	1718.7	1654.1	1518.4	1408.6	1289.0	1176.0	1108.1	1056.4	1040.3	1024.1	1030.6
17.5°	1751.0	1644.4	1495.8	1321.4	1188.9	1082.3	988.6	930.4	917.5	917.5	920.7
20°	1783.3	1657.3	1457.0	1256.7	1098.4	966.0	869.1	827.1	798.0	785.1	798.0
22.5°	1851.2	1702.6	1431.2	1214.7	1004.7	878.7	788.3	694.6	642.9	620.3	626.8
25°	1973.9	1783.3	1450.6	1140.4	953.1	798.0	672.0	558.9	487.8	465.2	471.7
27.5°	2164.6	1915.8	1473.2	1134.0	859.4	717.2	546.0	423.2	368.3	345.7	352.1
30°	2351.9	2096.7	1547.5	1069.4	823.8	588.0	413.5	326.3	271.4	248.8	255.2
32.5°	2513.5	2271.2	1641.2	1053.2	730.1	442.6	310.1	242.3	200.3	180.9	184.1
35°	2752.5	2419.8	1722.0	1004.7	620.3	332.8	226.1	174.5	151.8	145.4	145.4
37.5°	2965.8	2594.2	1799.5	988.6	465.2	248.8	161.5	142.2	138.9	129.2	129.2
40°	3188.7	2778.4	1835.0	930.4	339.2	174.5	132.5	132.5	129.2	119.5	119.5
42.5°	3450.4	2965.8	1867.3	862.6	242.3	132.5	122.8	126.0	122.8	113.1	109.8
45°	3637.8	3082.1	1877.0	691.4	168.0	126.0	116.3	119.5	116.3	109.8	106.6
47.5°	3809.0	3250.1	1835.0	484.6	135.7	119.5	113.1	113.1	113.1	103.4	100.2
50°	3986.7	3389.0	1799.5	261.7	132.5	116.3	106.6	103.4	106.6	100.2	96.9
52.5°	4222.5	3495.6	1705.8	177.7	129.2	113.1	103.4	96.9	100.2	93.7	96.9
55°	4535.9	3776.7	1534.6	168.0	129.2	109.8	100.2	90.5	90.5	87.2	87.2
57.5°	4678.0	3883.3	1260.0	161.5	126.0	109.8	93.7	84.0	77.5	74.3	71.1
60°	4852.5	4038.4	972.4	148.6	116.3	103.4	84.0	74.3	64.6	61.4	61.4
62.5°	4943.0	4073.9	768.9	132.5	106.6	90.5	74.3	61.4	51.7	45.2	45.2
65°	4994.6	4054.5	536.3	119.5	93.7	80.8	64.6	51.7	38.8	35.5	32.3
67.5°	4820.2	3938.2	313.4	103.4	80.8	71.1	54.9	42.0	32.3	29.1	25.8
70°	4471.3	3582.8	197.1	90.5	71.1	61.4	48.5	35.5	25.8	22.6	22.6
72.5°	4096.5	2888.2	135.7	71.1	54.9	48.5	35.5	29.1	22.6	16.2	16.2
75°	3686.2	2507.0	100.2	51.7	38.8	35.5	29.1	22.6	19.4	12.9	12.9
77.5°	2613.6	1660.6	80.8	38.8	25.8	22.6	19.4	16.2	12.9	12.9	9.7
80°	1544.3	810.9	61.4	25.8	19.4	16.2	12.9	12.9	9.7	9.7	9.7
82.5°	578.3	310.1	42.0	19.4	12.9	12.9	9.7	9.7	6.5	6.5	6.5
85°	210.0	77.5	19.4	9.7	9.7	6.5	6.5	6.5	6.5	6.5	6.5
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
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)