

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: P197791

Luminaire Tested: **TT-C5-LED-E1-WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34714)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C5-LED-E1-WQ-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8788.4 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 77
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

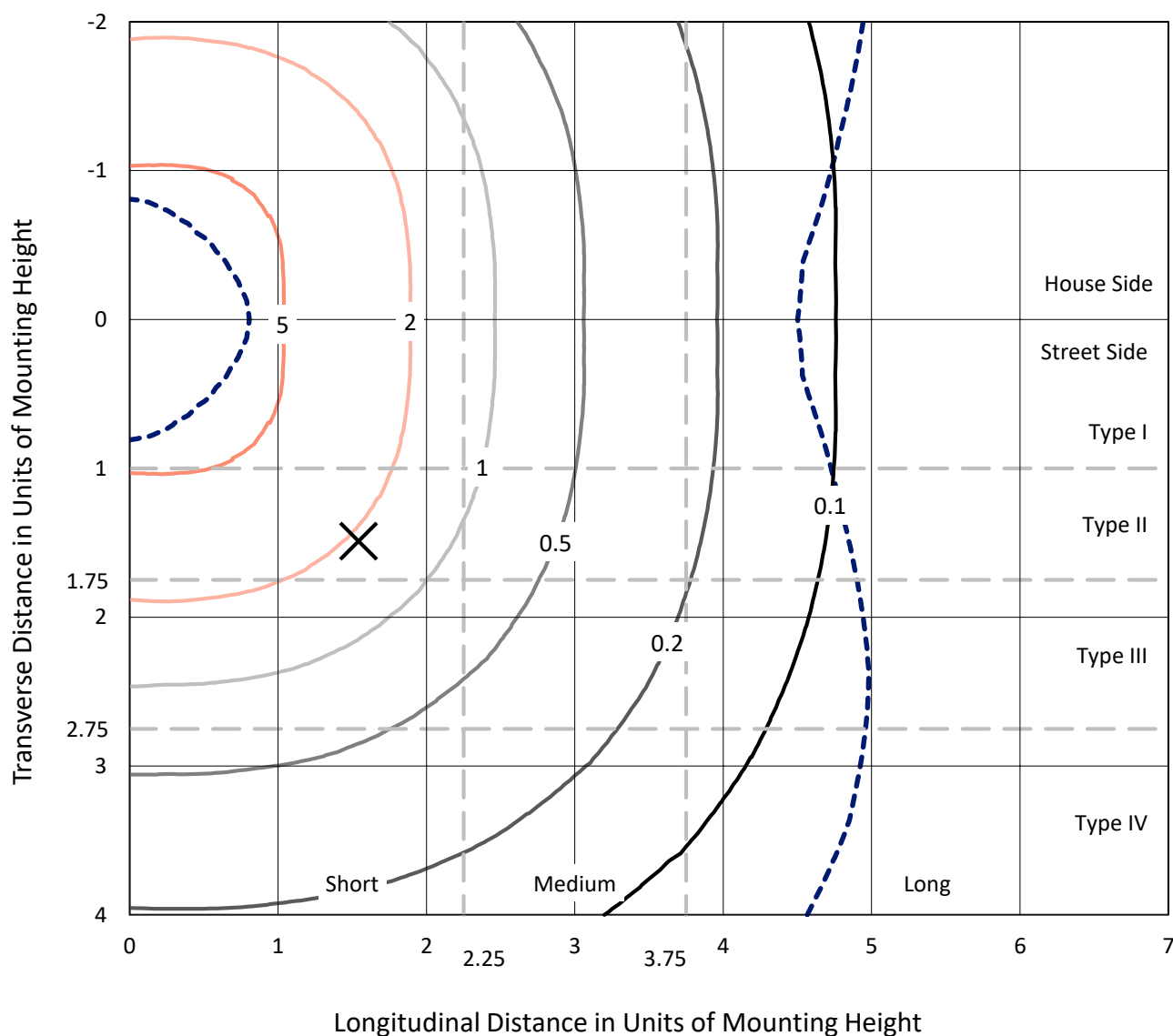


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

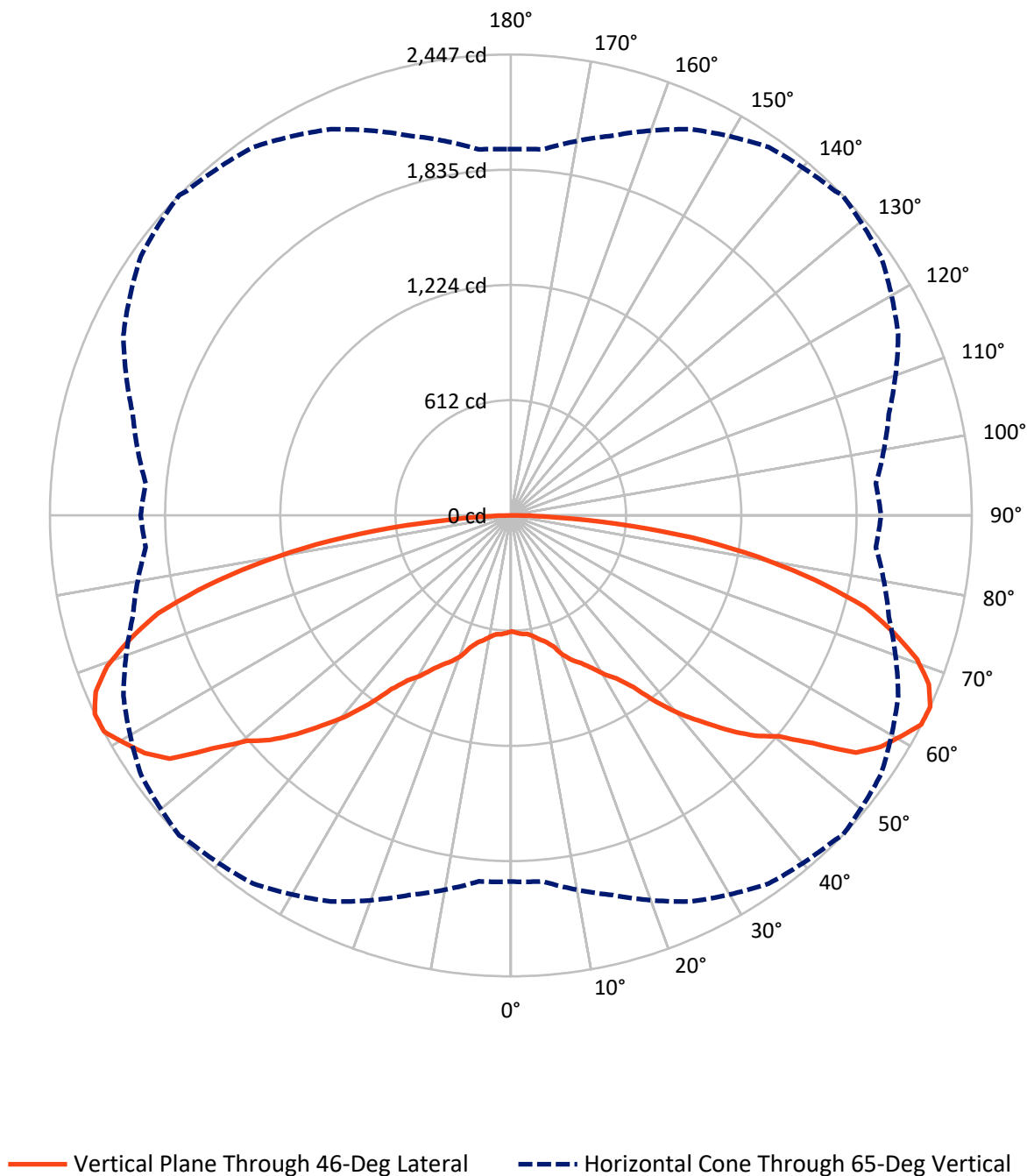


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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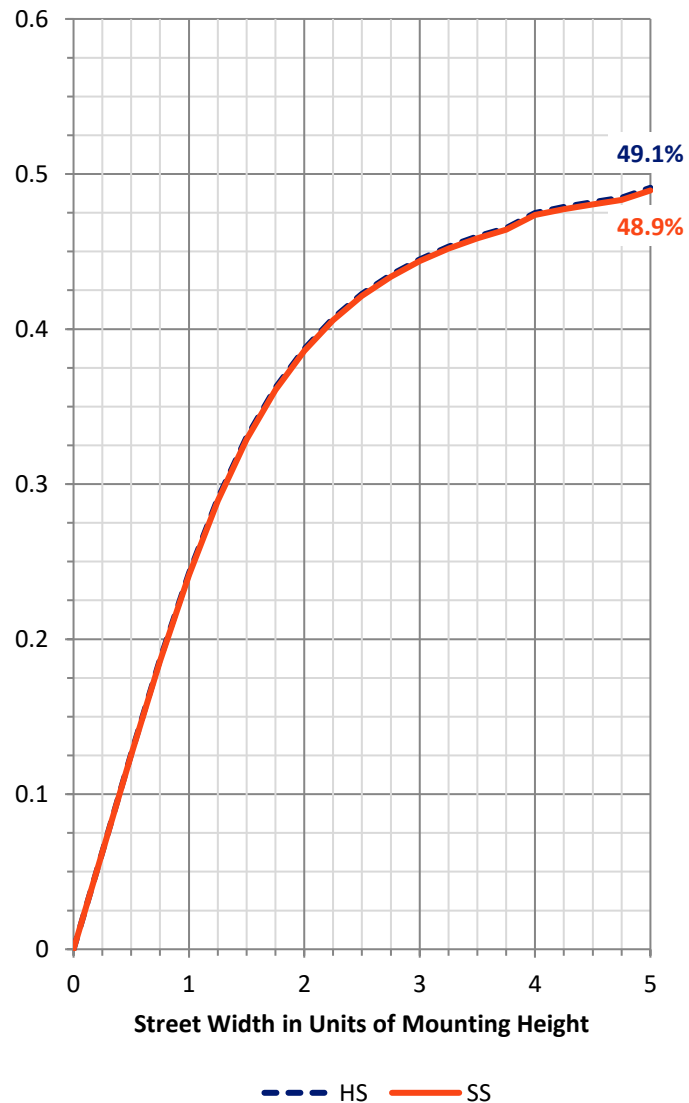
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4394.2	0.0	4394.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4394.2	0.0	4394.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	8788.4	0.0	8788.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.9	0.7
10°-20°	202.9	2.3
20°-30°	408.3	4.6
30°-40°	711.0	8.1
40°-50°	1202.4	13.7
50°-60°	1792.2	20.4
60°-70°	2144.9	24.4
70°-80°	1736.6	19.8
80°-90°	529.1	6.0
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°	8788.4	100.0
0°-180°	8788.4	100.0

Coefficient of Utilization



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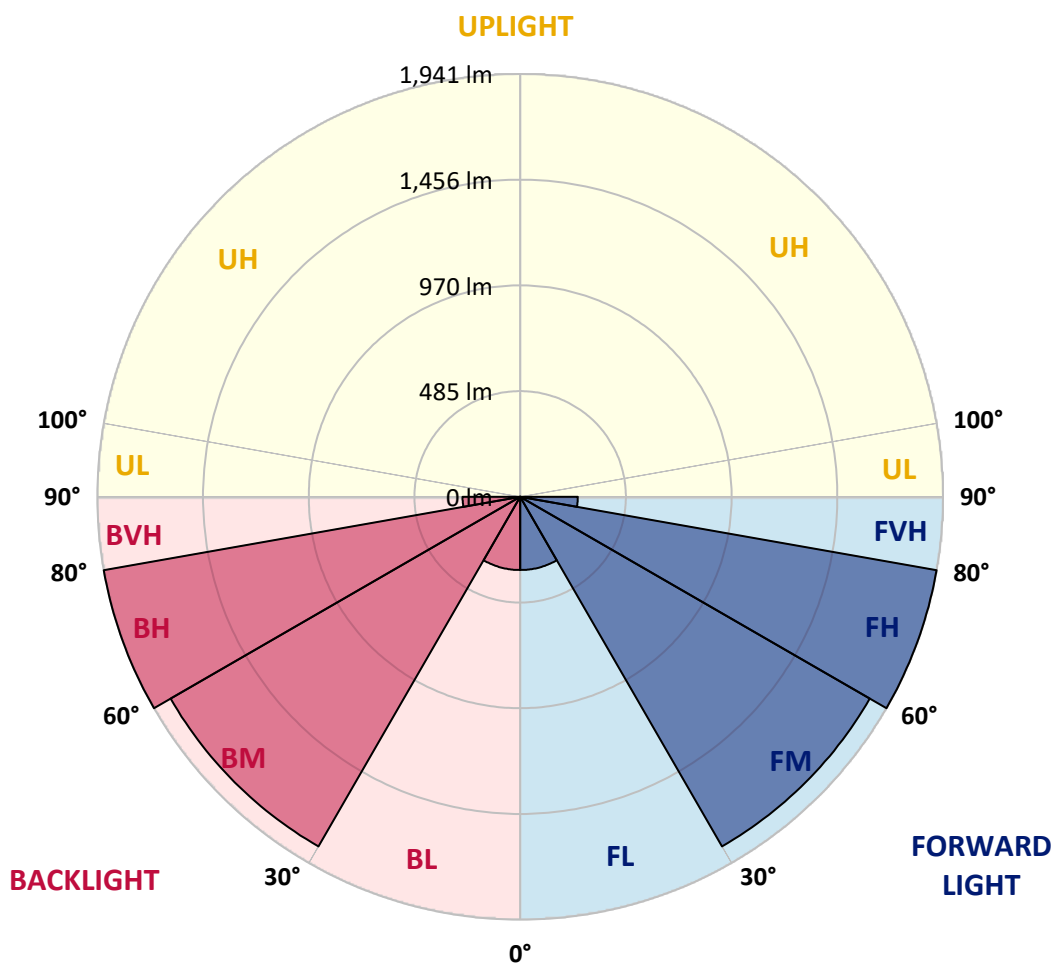
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	336.1	3.8			
FM	(30°-60°)	1852.8	21.1			
FH	(60°-80°)	1940.8	22.1			G2/5000
FVH	(80°-90°)	264.5	3.0			G3/500
BL	(0°-30°)	336.1	3.8	B1/500		
BM	(30°-60°)	1852.8	21.1	B2/2500		
BH	(60°-80°)	1940.8	22.1	B3/2500		G2/5000
BVH	(80°-90°)	264.5	3.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	615.6	615.6	615.6	615.6	615.6	615.6	615.6	615.6	615.6	615.6	615.6
2.5°	626.2	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7	626.2
5°	636.9	636.9	635.4	633.8	633.8	632.3	632.3	632.3	633.8	635.4	635.4
7.5°	641.4	639.9	639.9	638.4	636.9	636.9	635.4	636.9	638.4	639.9	639.9
10°	650.6	652.1	653.6	655.1	656.6	655.1	652.1	655.1	655.1	653.6	650.6
12.5°	671.8	671.8	676.4	681.0	681.0	679.4	674.9	681.0	679.4	674.9	671.8
15°	700.7	702.2	702.2	706.8	703.7	700.7	696.2	703.7	703.7	700.7	699.2
17.5°	741.7	738.7	734.1	737.2	740.2	740.2	731.1	740.2	734.1	731.1	735.7
20°	787.3	785.8	784.3	787.3	799.5	794.9	790.4	796.5	788.9	778.2	781.3
22.5°	822.3	825.3	829.9	834.5	846.6	843.6	834.5	845.1	832.9	829.9	820.8
25°	866.4	864.9	877.0	877.0	884.6	880.1	869.4	884.6	872.5	877.0	863.3
27.5°	910.5	908.9	918.1	918.1	931.7	930.2	916.5	931.7	918.1	915.0	910.5
30°	960.6	957.6	959.1	971.3	991.0	991.0	978.9	986.5	971.3	956.1	954.5
32.5°	1013.8	1007.7	1016.9	1036.6	1047.3	1044.2	1032.1	1044.2	1039.7	1013.8	1007.7
35°	1065.5	1073.1	1089.8	1106.5	1126.3	1129.3	1118.7	1124.8	1108.1	1088.3	1073.1
37.5°	1152.1	1164.3	1185.6	1225.1	1255.5	1264.6	1255.5	1252.5	1228.1	1184.1	1162.8
40°	1273.7	1276.8	1305.7	1364.9	1396.9	1402.9	1386.2	1390.8	1361.9	1313.3	1267.7
42.5°	1372.5	1368.0	1419.7	1472.9	1506.3	1520.0	1501.7	1507.8	1468.3	1421.2	1371.0
45°	1453.1	1457.7	1510.9	1564.1	1617.3	1643.1	1629.4	1618.8	1561.0	1507.8	1463.7
47.5°	1527.6	1548.9	1585.3	1662.9	1729.7	1758.6	1748.0	1732.8	1672.0	1583.8	1550.4
50°	1621.8	1635.5	1679.6	1779.9	1842.2	1852.9	1843.7	1843.7	1786.0	1684.1	1638.5
52.5°	1723.7	1725.2	1790.5	1893.9	1972.9	2015.5	2007.9	1986.6	1895.4	1805.7	1731.3
55°	1845.3	1828.5	1930.4	2038.3	2156.8	2226.8	2223.7	2178.1	2053.5	1934.9	1836.1
57.5°	1913.7	1916.7	2009.4	2172.0	2286.0	2305.8	2316.4	2289.1	2194.8	2012.5	1934.9
60°	1928.9	1965.3	2050.5	2229.8	2319.5	2377.2	2380.3	2334.7	2235.9	2062.6	1980.5
62.5°	1934.9	1979.0	2083.9	2226.8	2378.8	2435.0	2445.6	2398.5	2238.9	2088.5	1968.4
65°	1944.1	1950.1	2086.9	2261.7	2386.4	2435.0	2447.2	2398.5	2269.3	2077.8	1945.6
67.5°	1906.1	1890.9	2010.9	2200.9	2322.5	2380.3	2394.0	2336.2	2205.5	2014.0	1910.6
70°	1769.3	1775.3	1909.1	2090.0	2223.7	2278.4	2287.6	2225.2	2088.5	1922.8	1802.7
72.5°	1624.9	1640.1	1752.5	1934.9	2055.0	2108.2	2124.9	2059.6	1944.1	1773.8	1649.2
75°	1424.2	1453.1	1561.0	1725.2	1845.3	1925.8	1942.5	1857.4	1719.1	1571.7	1451.6
77.5°	1202.3	1222.1	1325.4	1466.8	1596.0	1637.0	1652.2	1611.2	1474.4	1343.7	1231.2
80°	945.4	953.0	1057.9	1170.4	1270.7	1304.1	1326.9	1275.3	1182.5	1064.0	954.5
82.5°	649.0	659.7	734.1	837.5	925.7	939.3	968.2	925.7	839.0	747.8	665.8
85°	337.4	352.6	410.4	466.6	535.0	551.8	560.9	529.0	483.4	408.9	354.2
87.5°	73.0	80.6	89.7	115.5	138.3	158.1	171.8	142.9	114.0	95.8	73.0
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°
0°	615.6
2.5°	624.7
5°	635.4
7.5°	639.9
10°	650.6
12.5°	670.3
15°	700.7
17.5°	738.7
20°	779.7
22.5°	816.2
25°	860.3
27.5°	910.5
30°	962.1
32.5°	1004.7
35°	1064.0
37.5°	1161.3
40°	1278.3
42.5°	1372.5
45°	1450.1
47.5°	1536.7
50°	1623.3
52.5°	1734.3
55°	1843.7
57.5°	1900.0
60°	1934.9
62.5°	1962.3
65°	1965.3
67.5°	1886.3
70°	1766.2
72.5°	1629.4
75°	1428.8
77.5°	1217.5
80°	945.4
82.5°	664.2
85°	348.1
87.5°	68.4
90°	0.0

(END OF REPORT)