

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: P197790

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197790
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
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8872.3 lumens
Efficiency: N/A
Efficacy: 115.2 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

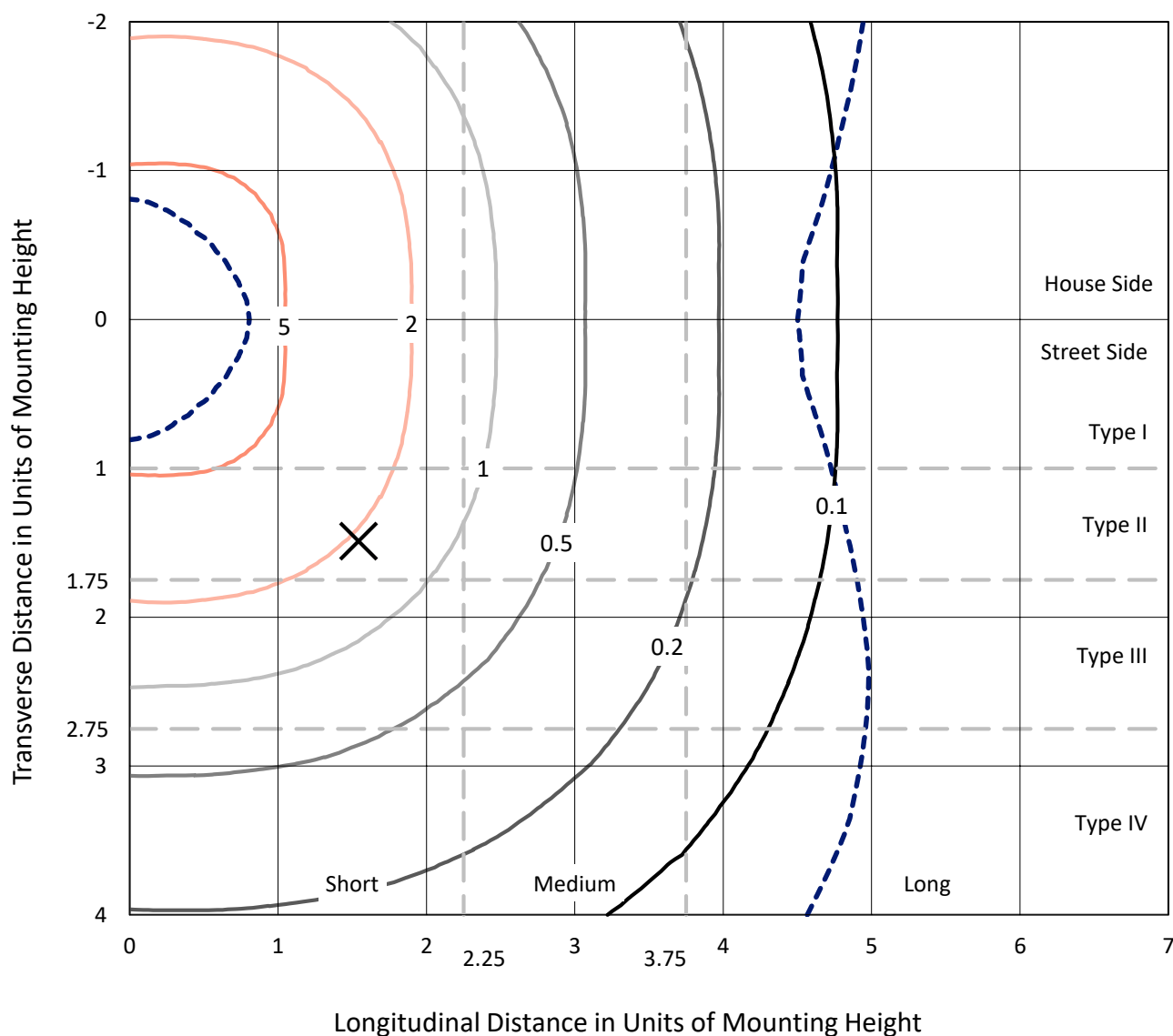


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

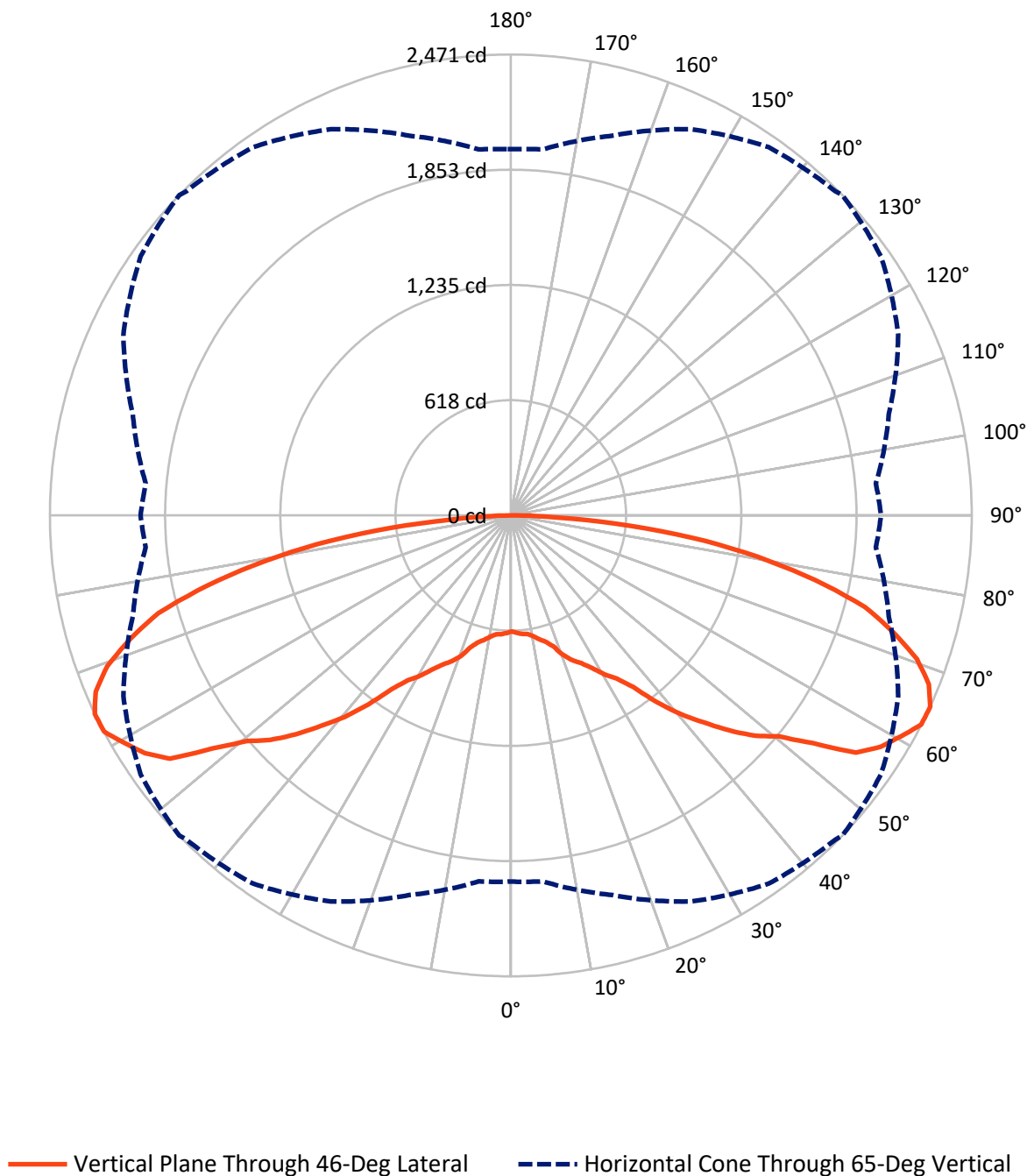


Based on 10 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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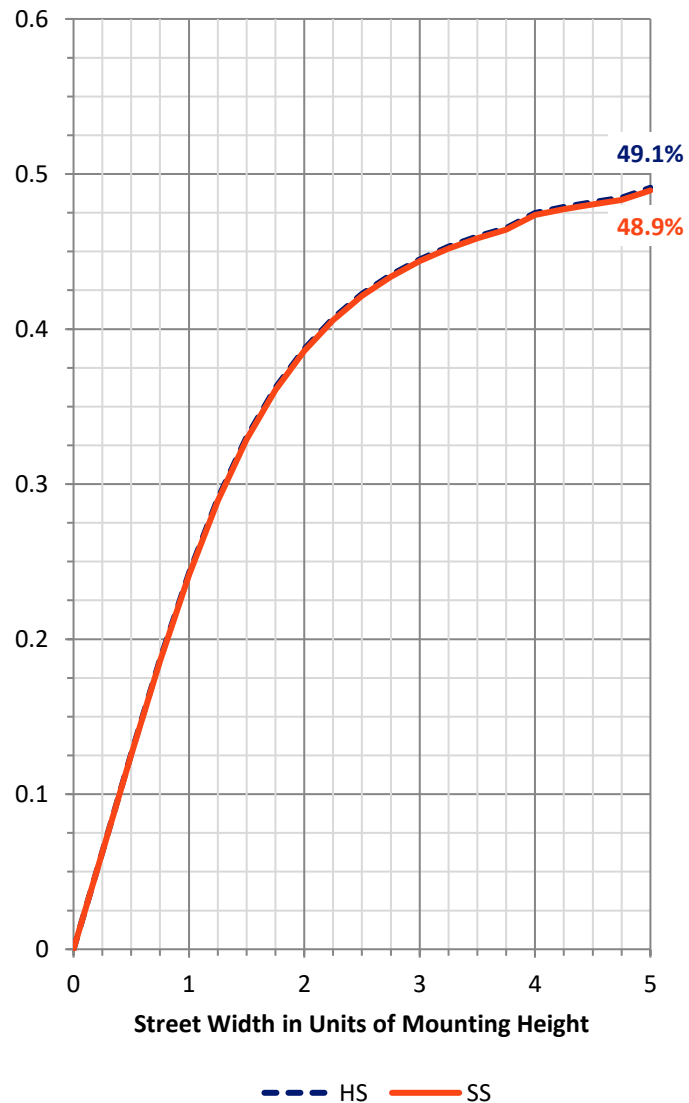
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4436.1	0.0	4436.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4436.1	0.0	4436.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	8872.3	0.0	8872.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	0.7
10°-20°	204.8	2.3
20°-30°	412.2	4.6
30°-40°	717.7	8.1
40°-50°	1213.9	13.7
50°-60°	1809.4	20.4
60°-70°	2165.4	24.4
70°-80°	1753.2	19.8
80°-90°	534.1	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°	8872.3	100.0
0°-180°	8872.3	100.0

Coefficient of Utilization



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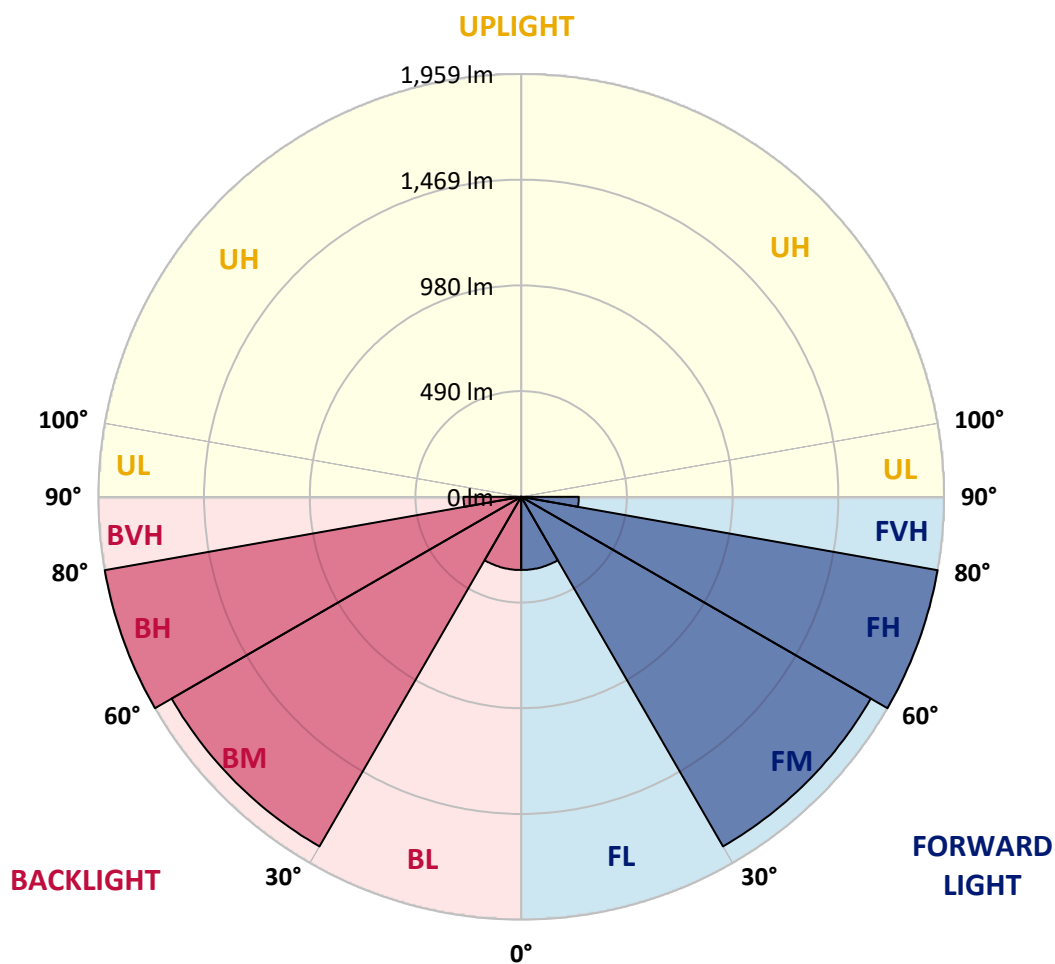
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	339.3	3.8			
FM	(30°-60°)	1870.5	21.1			
FH	(60°-80°)	1959.3	22.1			G2/5000
FVH	(80°-90°)	267.1	3.0			G3/500
BL	(0°-30°)	339.3	3.8	B1/500		
BM	(30°-60°)	1870.5	21.1	B2/2500		
BH	(60°-80°)	1959.3	22.1	B3/2500		G2/5000
BVH	(80°-90°)	267.1	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°	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5
2.5°	632.2	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	632.2
5°	643.0	643.0	641.4	639.9	639.9	638.4	638.4	638.4	639.9	641.4	641.4
7.5°	647.6	646.0	646.0	644.5	643.0	643.0	641.4	643.0	644.5	646.0	646.0
10°	656.8	658.3	659.8	661.4	662.9	661.4	658.3	661.4	661.4	659.8	656.8
12.5°	678.2	678.2	682.9	687.5	687.5	685.9	681.3	687.5	685.9	681.3	678.2
15°	707.4	708.9	708.9	713.5	710.5	707.4	702.8	710.5	710.5	707.4	705.9
17.5°	748.8	745.8	741.2	744.2	747.3	747.3	738.1	747.3	741.2	738.1	742.7
20°	794.9	793.3	791.8	794.9	807.1	802.5	797.9	804.1	796.4	785.7	788.7
22.5°	830.2	833.2	837.8	842.4	854.7	851.6	842.4	853.2	840.9	837.8	828.6
25°	874.7	873.1	885.4	885.4	893.1	888.5	877.7	893.1	880.8	885.4	871.6
27.5°	919.2	917.6	926.8	926.8	940.6	939.1	925.3	940.6	926.8	923.8	919.2
30°	969.8	966.7	968.3	980.5	1000.5	1000.5	988.2	995.9	980.5	965.2	963.7
32.5°	1023.5	1017.4	1026.6	1046.5	1057.3	1054.2	1041.9	1054.2	1049.6	1023.5	1017.4
35°	1075.7	1083.4	1100.2	1117.1	1137.1	1140.1	1129.4	1135.5	1118.6	1098.7	1083.4
37.5°	1163.1	1175.4	1196.9	1236.8	1267.5	1276.7	1267.5	1264.4	1239.9	1195.4	1173.9
40°	1285.9	1289.0	1318.1	1378.0	1410.2	1416.3	1399.5	1404.1	1374.9	1325.8	1279.8
42.5°	1385.7	1381.0	1433.2	1486.9	1520.7	1534.5	1516.1	1522.2	1482.3	1434.8	1384.1
45°	1467.0	1471.6	1525.3	1579.0	1632.7	1658.8	1645.0	1634.2	1575.9	1522.2	1477.7
47.5°	1542.2	1563.7	1600.5	1678.7	1746.3	1775.4	1764.7	1749.3	1687.9	1598.9	1565.2
50°	1637.3	1651.1	1695.6	1796.9	1859.8	1870.6	1861.3	1861.3	1803.0	1700.2	1654.2
52.5°	1740.1	1741.7	1807.6	1912.0	1991.8	2034.7	2027.1	2005.6	1913.5	1823.0	1747.8
55°	1862.9	1846.0	1948.8	2057.8	2177.5	2248.0	2245.0	2198.9	2073.1	1953.4	1853.7
57.5°	1931.9	1935.0	2028.6	2192.8	2307.9	2327.8	2338.6	2311.0	2215.8	2031.7	1953.4
60°	1947.3	1984.1	2070.0	2251.1	2341.6	2400.0	2403.0	2357.0	2257.2	2082.3	1999.4
62.5°	1953.4	1997.9	2103.8	2248.0	2401.5	2458.3	2469.0	2421.4	2260.3	2108.4	1987.2
65°	1962.6	1968.8	2106.9	2283.3	2409.2	2458.3	2470.5	2421.4	2291.0	2097.7	1964.2
67.5°	1924.3	1908.9	2030.1	2222.0	2344.7	2403.0	2416.8	2358.5	2226.6	2033.2	1928.9
70°	1786.2	1792.3	1927.3	2109.9	2245.0	2300.2	2309.4	2246.5	2108.4	1941.1	1819.9
72.5°	1640.4	1655.7	1769.3	1953.4	2074.6	2128.3	2145.2	2079.2	1962.6	1790.8	1664.9
75°	1437.8	1467.0	1575.9	1741.7	1862.9	1944.2	1961.1	1875.2	1735.5	1586.7	1465.4
77.5°	1213.8	1233.7	1338.1	1480.8	1611.2	1652.7	1668.0	1626.6	1488.5	1356.5	1242.9
80°	954.5	962.1	1068.0	1181.6	1282.8	1316.6	1339.6	1287.4	1193.8	1074.1	963.7
82.5°	655.2	666.0	741.2	845.5	934.5	948.3	977.5	934.5	847.0	755.0	672.1
85°	340.7	356.0	414.3	471.1	540.1	557.0	566.2	534.0	488.0	412.8	357.5
87.5°	73.7	81.3	90.5	116.6	139.6	159.6	173.4	144.2	115.1	96.7	73.7
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°	621.5
2.5°	630.7
5°	641.4
7.5°	646.0
10°	656.8
12.5°	676.7
15°	707.4
17.5°	745.8
20°	787.2
22.5°	824.0
25°	868.5
27.5°	919.2
30°	971.3
32.5°	1014.3
35°	1074.1
37.5°	1172.4
40°	1290.5
42.5°	1385.7
45°	1463.9
47.5°	1551.4
50°	1638.8
52.5°	1750.9
55°	1861.3
57.5°	1918.1
60°	1953.4
62.5°	1981.0
65°	1984.1
67.5°	1904.3
70°	1783.1
72.5°	1645.0
75°	1442.4
77.5°	1229.1
80°	954.5
82.5°	670.6
85°	351.4
87.5°	69.1
90°	0.0

(END OF REPORT)