

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: P197908

Luminaire Tested: **TT-C4-LED-E1-WQ-SG-MS/DIM-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115558)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C4-LED-E1-WQ-SG-MS/DIM-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6223.8 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 58
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

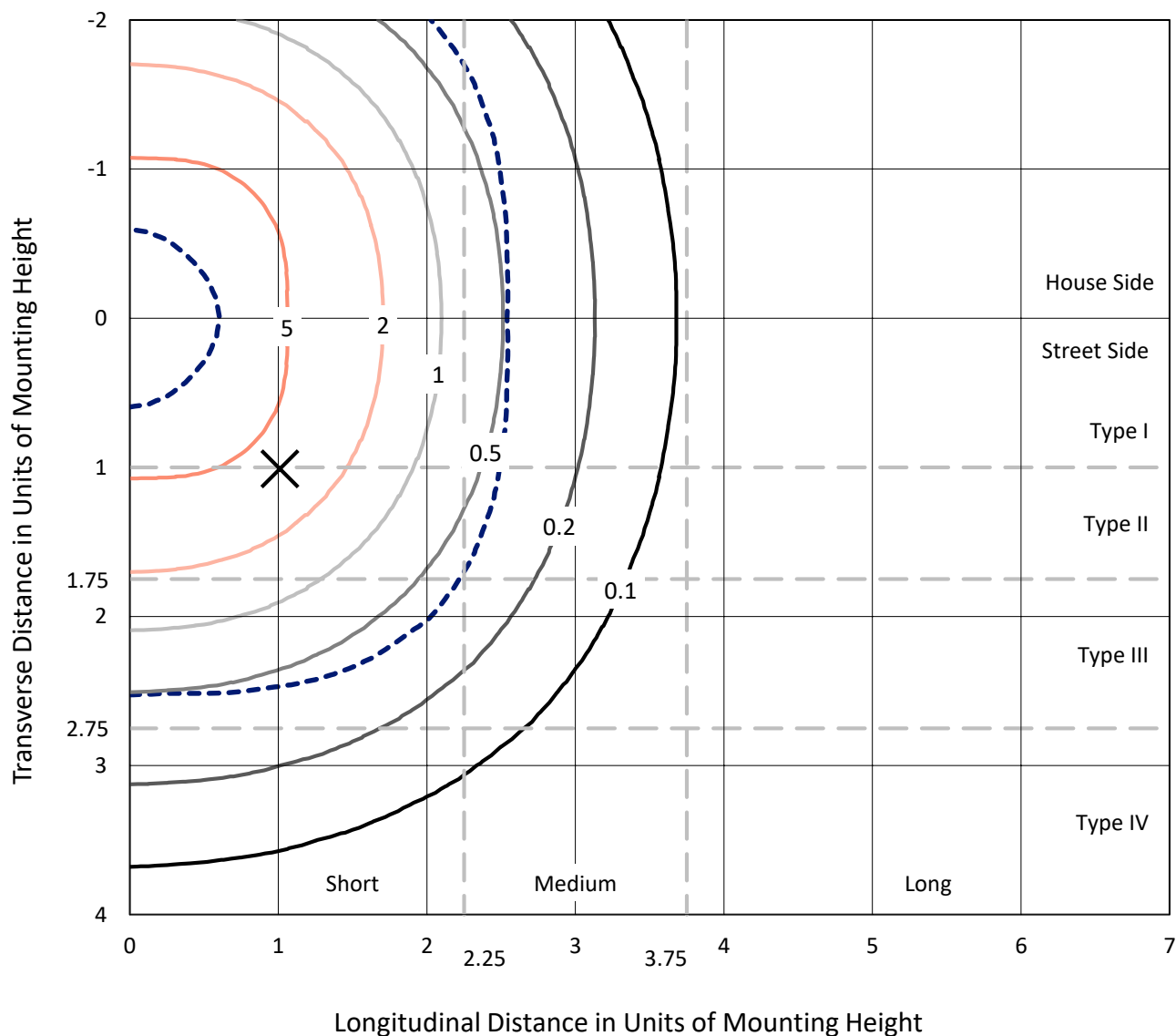


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

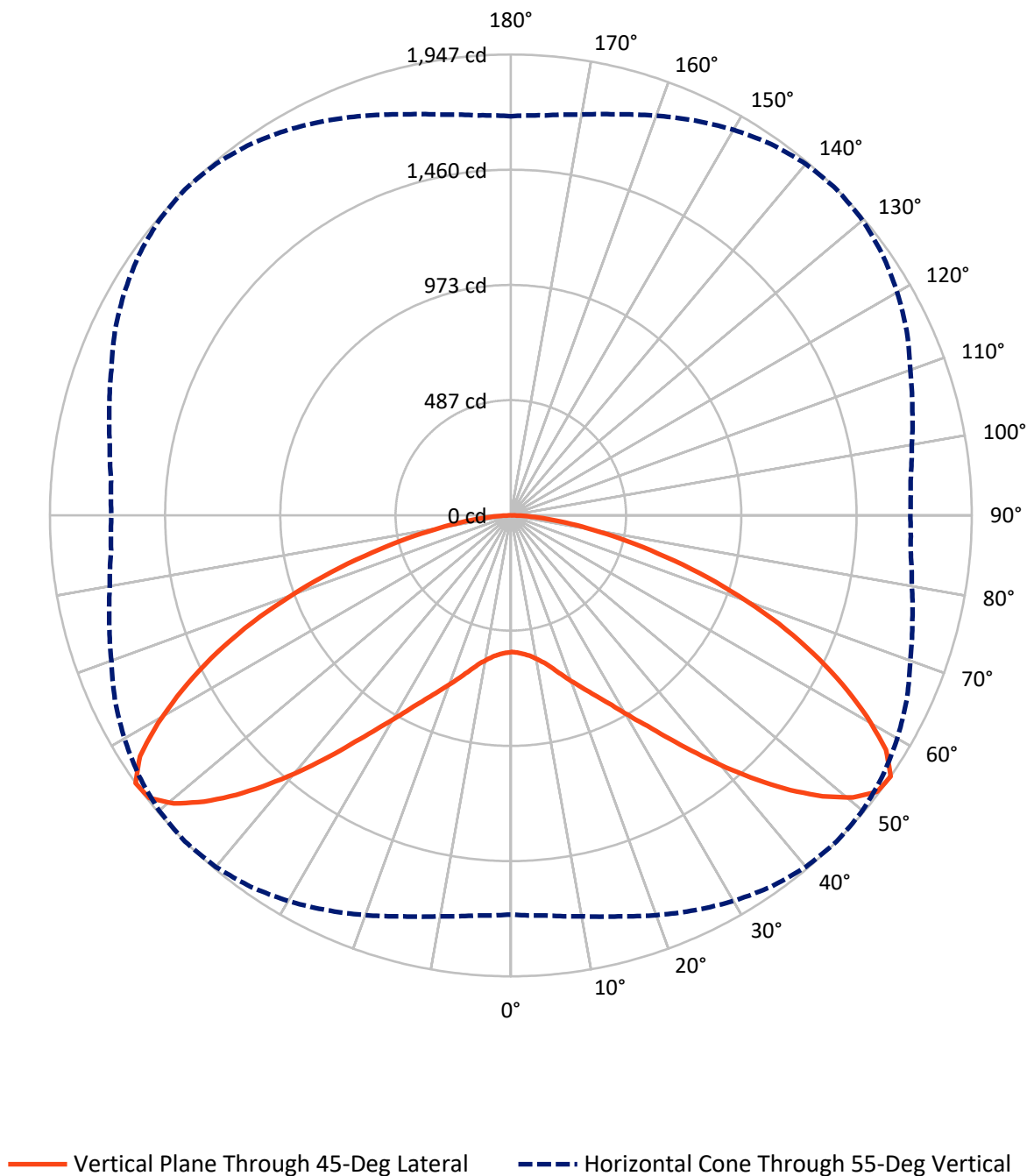


Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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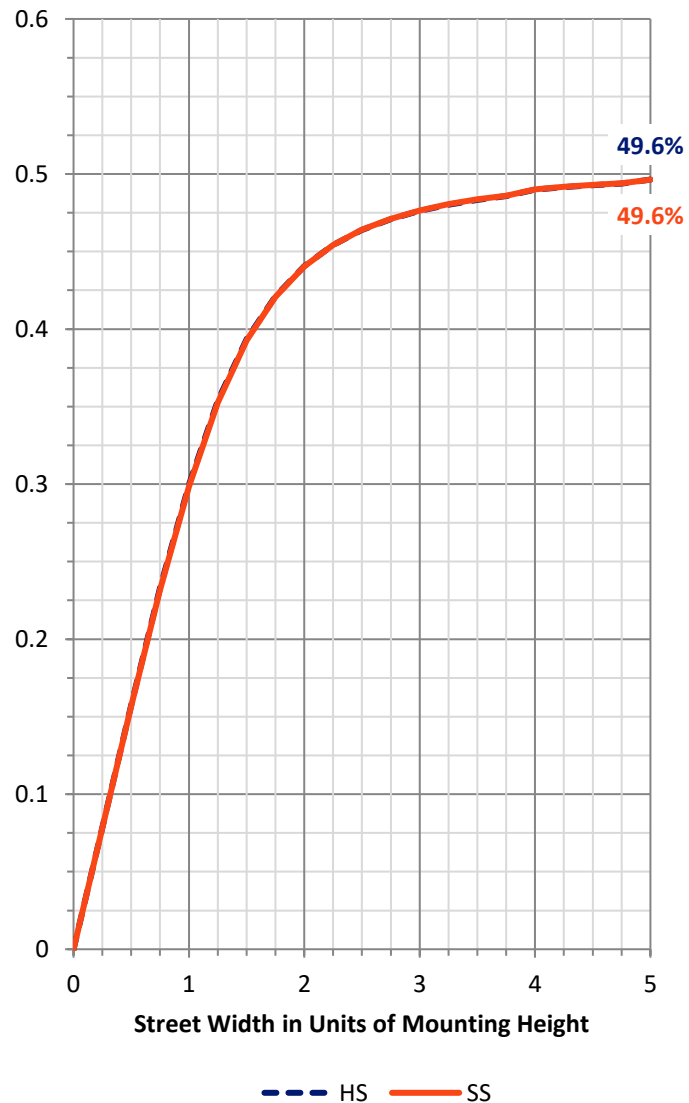
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3111.9	0.0	3111.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3111.9	0.0	3111.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	6223.8	0.0	6223.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.0	0.9
10°-20°	193.2	3.1
20°-30°	393.4	6.3
30°-40°	718.5	11.5
40°-50°	1219.9	19.6
50°-60°	1588.8	25.5
60°-70°	1284.9	20.6
70°-80°	631.4	10.1
80°-90°	136.7	2.2
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°	6223.8	100.0
0°-180°	6223.8	100.0

Coefficient of Utilization



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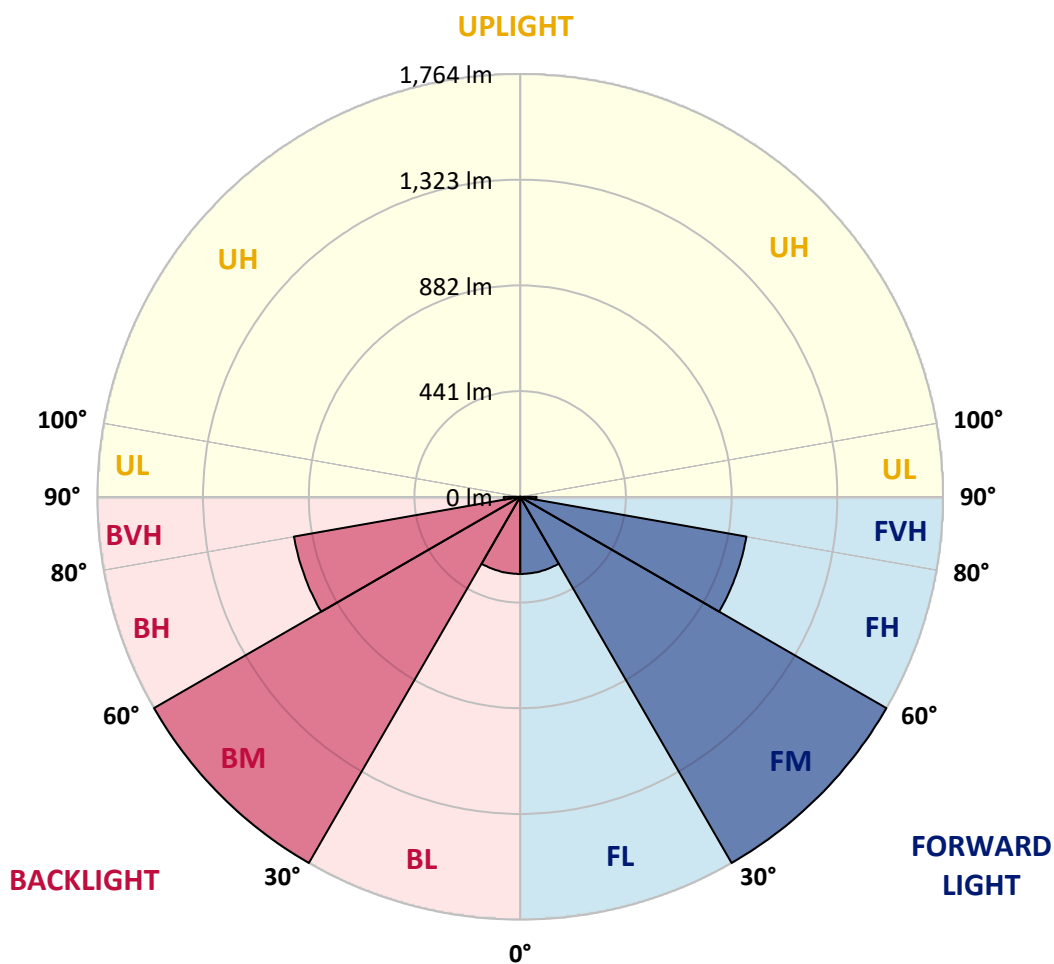
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	321.8	5.2			
FM	(30°-60°)	1763.6	28.3			
FH	(60°-80°)	958.2	15.4			G1/1800
FVH	(80°-90°)	68.3	1.1			G1/100
BL	(0°-30°)	321.8	5.2	B1/500		
BM	(30°-60°)	1763.6	28.3	B2/2500		
BH	(60°-80°)	958.2	15.4	B2/1000		G1/1800
BVH	(80°-90°)	68.3	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	576.7	576.7	576.7	576.7	576.7	576.7	576.7	576.7	576.7	576.7	576.7
2.5°	579.2	579.2	579.2	579.2	579.2	579.2	580.5	580.5	580.5	580.5	580.5
5°	586.9	586.9	586.9	588.2	588.2	588.2	588.2	588.2	588.2	588.2	588.2
7.5°	598.3	597.0	598.3	598.3	598.3	599.6	599.6	598.3	599.6	599.6	599.6
10°	614.9	613.6	614.9	614.9	614.9	616.2	616.2	616.2	616.2	617.5	617.5
12.5°	639.1	637.8	639.1	640.4	639.1	640.4	640.4	640.4	640.4	640.4	640.4
15°	669.7	668.4	669.7	670.9	669.7	672.2	672.2	670.9	670.9	672.2	672.2
17.5°	706.5	704.1	705.2	706.5	706.5	709.1	709.1	707.8	709.1	710.3	709.1
20°	744.7	742.2	743.5	747.3	747.3	748.6	751.1	749.9	751.1	752.4	751.1
22.5°	786.7	785.4	786.7	790.5	790.5	791.8	795.6	795.6	795.6	796.9	795.6
25°	832.6	831.3	832.6	836.4	836.4	839.0	844.0	844.0	845.3	846.6	845.3
27.5°	886.1	884.8	887.3	891.2	892.5	896.3	902.6	903.9	905.1	906.4	903.9
30°	948.5	945.9	949.6	956.0	958.6	963.7	971.4	973.9	975.2	978.9	976.5
32.5°	1019.7	1017.2	1022.3	1029.8	1033.8	1041.3	1051.6	1054.1	1057.8	1060.4	1056.7
35°	1103.7	1102.5	1107.6	1119.0	1125.4	1134.3	1148.3	1152.1	1154.7	1159.8	1154.7
37.5°	1196.6	1195.3	1204.3	1217.1	1228.6	1242.5	1257.7	1264.1	1268.0	1274.4	1268.0
40°	1299.8	1298.5	1309.9	1325.3	1339.2	1357.1	1376.2	1385.1	1392.7	1399.1	1391.4
42.5°	1405.5	1405.5	1419.4	1436.0	1456.4	1478.0	1499.7	1509.8	1522.6	1526.3	1517.5
45°	1507.3	1508.5	1522.6	1542.9	1572.2	1600.2	1624.4	1637.2	1651.1	1655.0	1643.5
47.5°	1604.1	1605.4	1618.0	1644.8	1677.9	1709.7	1739.0	1756.8	1770.8	1772.1	1763.2
50°	1683.0	1688.1	1704.6	1728.8	1763.2	1796.3	1832.0	1854.9	1868.8	1872.7	1863.7
52.5°	1713.6	1722.4	1741.6	1772.1	1811.5	1845.9	1885.3	1914.6	1931.2	1937.6	1930.0
55°	1685.5	1695.8	1718.7	1753.0	1796.3	1839.5	1880.3	1914.6	1937.6	1946.5	1938.9
57.5°	1623.1	1624.4	1647.3	1681.7	1721.1	1765.7	1805.1	1837.0	1858.6	1867.6	1866.3
60°	1514.9	1514.9	1536.6	1569.7	1600.2	1646.0	1679.2	1703.3	1718.7	1728.8	1726.2
62.5°	1369.8	1369.8	1388.8	1423.2	1453.8	1493.3	1525.2	1550.6	1560.7	1572.2	1574.8
65°	1208.1	1208.1	1225.9	1260.3	1288.3	1324.0	1354.5	1378.7	1388.8	1402.9	1400.3
67.5°	1036.2	1035.1	1051.6	1080.8	1107.6	1140.7	1170.0	1192.9	1204.3	1220.9	1209.4
70°	859.3	859.3	873.3	896.3	915.3	948.5	976.5	999.4	1008.2	1022.3	1015.9
72.5°	691.3	690.0	701.5	719.3	734.5	763.8	780.4	805.9	813.4	832.6	822.4
75°	539.7	537.3	546.1	558.9	569.0	588.2	600.9	621.2	627.6	640.4	635.3
77.5°	406.1	404.8	408.6	417.6	425.1	440.5	445.6	455.7	460.8	473.6	463.4
80°	291.5	287.8	291.5	296.6	299.2	310.7	311.9	315.8	318.2	327.2	316.9
82.5°	196.1	191.0	193.5	197.3	197.3	203.7	205.0	203.7	208.7	211.3	206.3
85°	112.0	108.2	109.5	112.0	110.8	114.6	114.6	113.3	117.1	117.1	114.6
87.5°	37.0	34.4	35.7	37.0	37.0	38.2	39.5	38.2	40.8	40.8	38.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	576.7	576.7	576.7	576.7	576.7	576.7	576.7	576.7
2.5°	580.5	580.5	580.5	580.5	580.5	580.5	580.5	580.5
5°	588.2	588.2	588.2	588.2	588.2	586.9	586.9	586.9
7.5°	599.6	599.6	599.6	599.6	599.6	598.3	598.3	598.3
10°	617.5	616.2	616.2	616.2	616.2	614.9	616.2	614.9
12.5°	640.4	641.6	641.6	640.4	641.6	639.1	639.1	639.1
15°	672.2	670.9	670.9	670.9	670.9	669.7	669.7	669.7
17.5°	707.8	707.8	706.5	706.5	705.2	704.1	704.1	704.1
20°	749.9	748.6	747.3	746.0	744.7	742.2	740.9	740.9
22.5°	793.1	791.8	790.5	789.3	788.0	785.4	783.0	783.0
25°	841.4	839.0	837.7	835.2	832.6	830.0	828.8	827.5
27.5°	900.0	897.6	893.6	889.9	884.8	883.5	881.0	881.0
30°	970.1	966.3	961.1	954.8	949.6	944.6	942.1	940.8
32.5°	1051.6	1046.5	1037.5	1029.8	1021.0	1015.9	1012.1	1009.5
35°	1147.0	1139.4	1129.2	1117.7	1106.3	1097.4	1091.0	1091.0
37.5°	1259.0	1247.6	1232.3	1218.3	1201.7	1191.6	1183.9	1178.8
40°	1381.3	1364.8	1345.6	1327.8	1308.8	1294.7	1283.2	1284.5
42.5°	1502.3	1488.2	1465.3	1443.7	1419.4	1400.3	1386.4	1385.1
45°	1629.5	1611.6	1583.6	1555.6	1527.6	1504.7	1488.2	1485.6
47.5°	1747.8	1728.8	1695.8	1661.4	1630.8	1605.4	1587.5	1584.9
50°	1844.7	1821.8	1787.4	1750.4	1717.4	1689.4	1670.2	1665.2
52.5°	1907.1	1881.6	1844.7	1800.1	1764.5	1732.6	1709.7	1703.3
55°	1917.2	1884.2	1844.7	1795.0	1755.5	1719.8	1694.5	1686.8
57.5°	1847.2	1811.5	1776.0	1732.6	1693.1	1655.0	1634.6	1624.4
60°	1711.0	1683.0	1653.7	1614.2	1582.5	1546.8	1530.3	1525.2
62.5°	1554.3	1530.3	1503.4	1462.8	1436.0	1404.2	1388.8	1382.6
65°	1386.4	1358.4	1332.9	1299.8	1270.5	1243.8	1222.2	1219.6
67.5°	1200.4	1171.3	1149.5	1120.3	1091.0	1065.5	1051.6	1043.9
70°	1004.5	980.2	958.6	926.7	907.7	883.5	873.3	865.7
72.5°	809.7	795.6	768.9	748.6	727.0	707.8	701.5	693.8
75°	626.3	609.8	589.5	576.7	560.2	550.0	544.8	539.7
77.5°	459.5	445.6	434.1	429.0	421.4	411.2	407.4	403.5
80°	318.2	311.9	304.3	303.0	297.9	290.2	288.9	287.8
82.5°	206.3	202.5	199.9	199.9	197.3	192.2	191.0	191.0
85°	114.6	113.3	114.6	113.3	110.8	108.2	108.2	108.2
87.5°	38.2	38.2	39.5	40.8	37.0	37.0	35.7	35.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)