

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: P197836

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115513)
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-CG-MS/DIM-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR 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: 6297 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

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



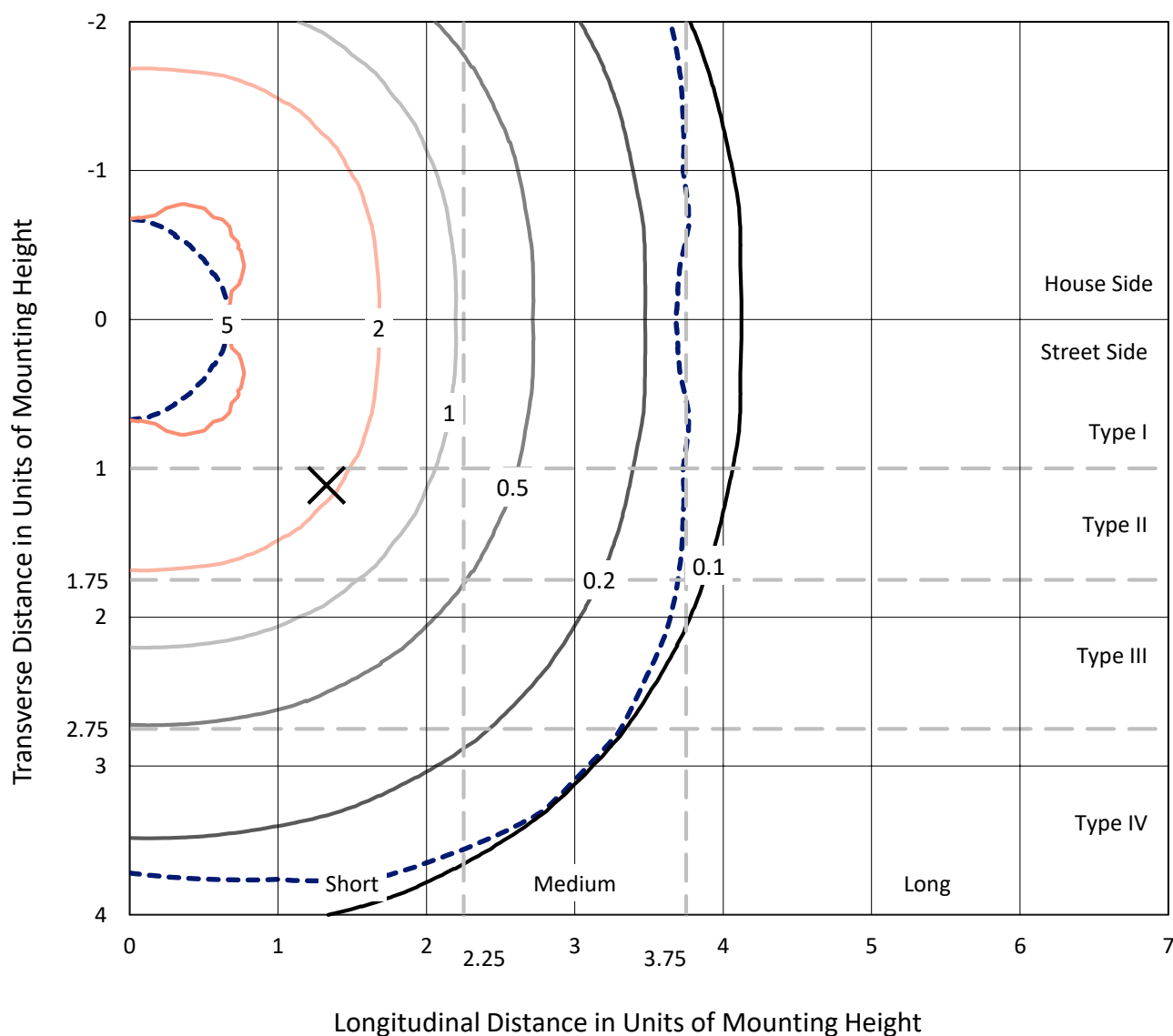
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

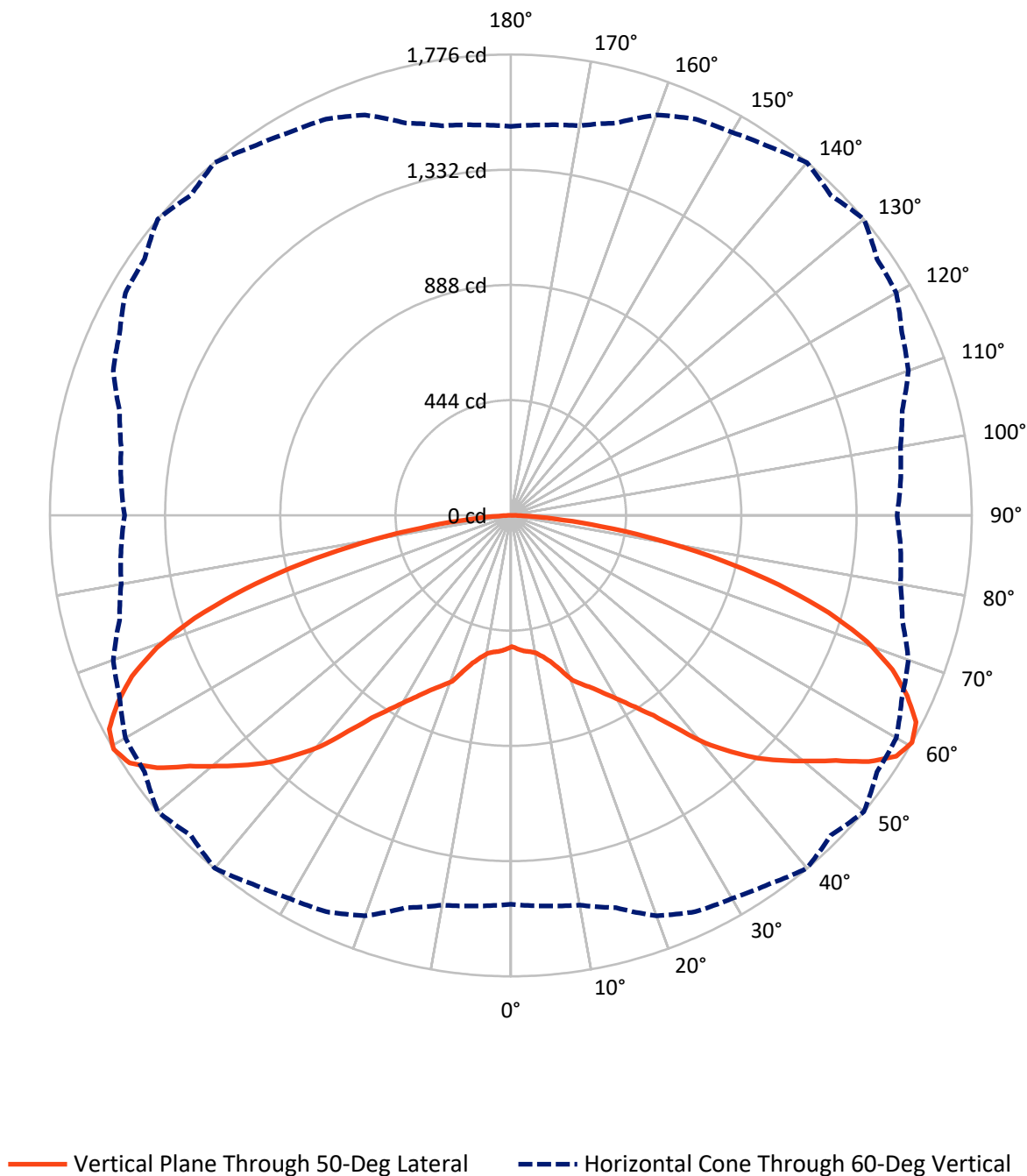


Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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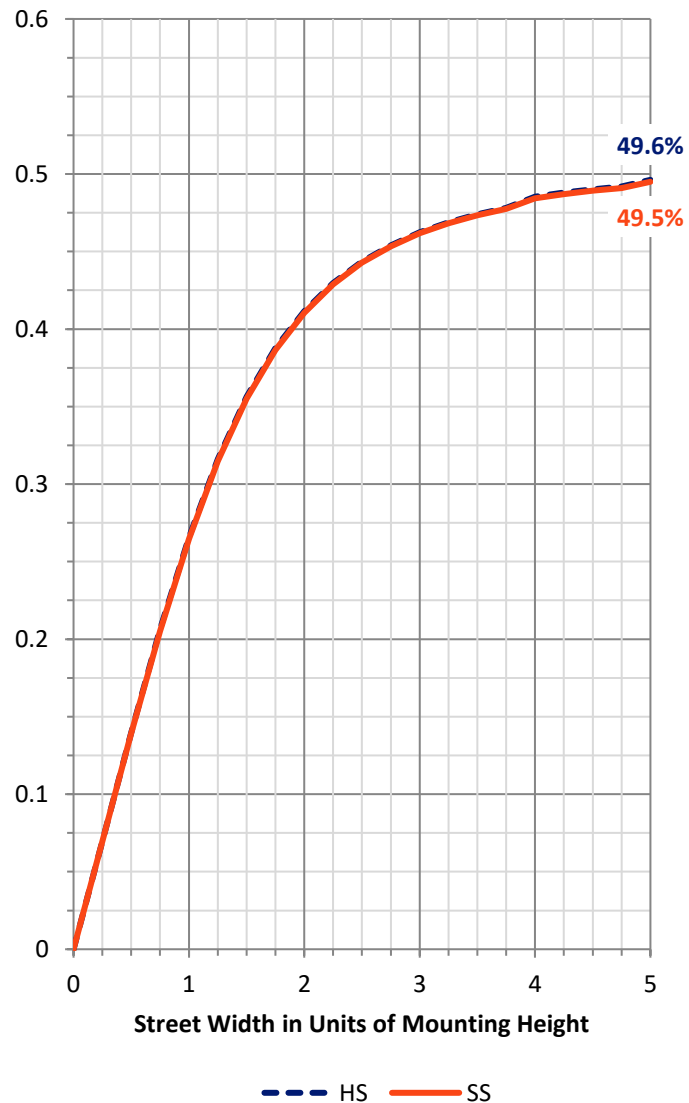
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3148.5	0.0	3148.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3148.5	0.0	3148.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6297.0	0.0	6297.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.3	0.8
10°-20°	169.9	2.7
20°-30°	343.0	5.4
30°-40°	592.8	9.4
40°-50°	984.6	15.6
50°-60°	1399.3	22.2
60°-70°	1528.5	24.3
70°-80°	1015.4	16.1
80°-90°	213.1	3.4
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°	6297.0	100.0
0°-180°	6297.0	100.0

Coefficient of Utilization



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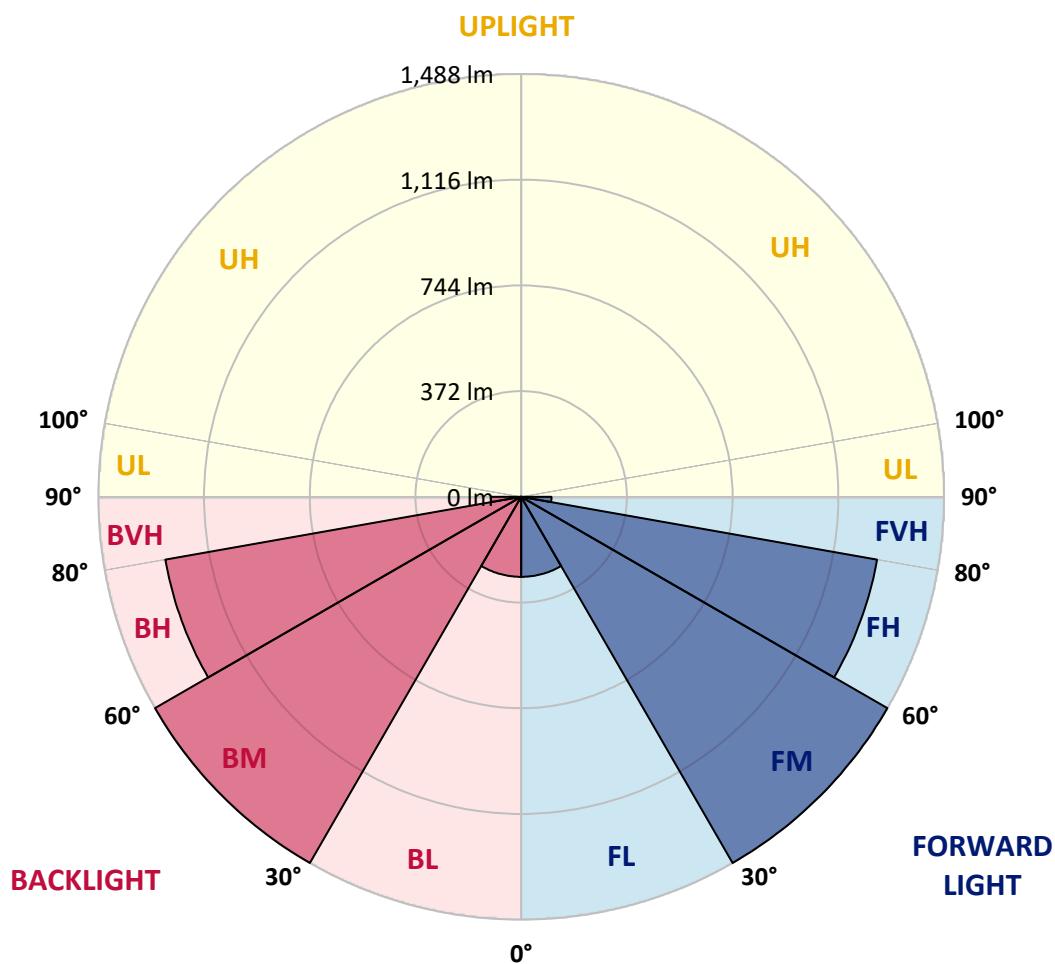
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	281.6	4.5			
FM	(30°-60°)	1488.4	23.6			
FH	(60°-80°)	1271.9	20.2			G1/1800
FVH	(80°-90°)	106.6	1.7			G2/225
BL	(0°-30°)	281.6	4.5	B1/500		
BM	(30°-60°)	1488.4	23.6	B2/2500		
BH	(60°-80°)	1271.9	20.2	B3/2500		G1/1800
BVH	(80°-90°)	106.6	1.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	505.2	505.2	505.2	505.2	505.2	505.2	505.2	505.2	505.2	505.2	505.2
2.5°	515.7	515.7	515.7	515.7	515.7	515.7	515.7	515.7	514.4	515.7	515.7
5°	520.9	520.9	520.9	522.2	522.2	522.2	523.5	523.5	523.5	524.8	524.8
7.5°	524.8	524.8	524.8	524.8	526.1	526.1	526.1	527.4	527.4	528.7	530.0
10°	541.7	541.7	541.7	541.7	541.7	540.4	540.4	540.4	539.1	539.1	539.1
12.5°	562.5	563.8	565.1	565.1	565.1	565.1	562.5	559.9	559.9	559.9	559.9
15°	582.1	583.4	584.7	587.3	588.6	589.9	589.9	589.9	589.9	589.9	587.3
17.5°	613.3	614.6	614.6	615.9	617.2	617.2	618.5	622.4	627.6	630.2	627.6
20°	661.5	664.1	665.4	665.4	666.7	665.4	668.0	670.6	674.5	677.1	678.4
22.5°	696.7	699.3	703.2	703.2	703.2	701.9	704.5	705.8	704.5	704.5	707.1
25°	724.0	726.6	729.2	730.5	733.1	738.3	743.5	743.5	739.6	738.3	738.3
27.5°	759.2	763.1	763.1	764.4	767.0	770.9	776.1	780.0	782.6	780.0	778.7
30°	804.7	807.3	808.6	807.3	812.6	813.9	815.2	817.8	825.6	830.8	824.3
32.5°	839.9	843.8	847.7	852.9	864.6	869.8	868.5	871.1	873.8	879.0	880.3
35°	893.3	899.8	901.1	905.0	919.3	927.1	938.9	945.4	944.1	937.6	946.7
37.5°	974.0	981.8	983.1	989.6	1004.0	1010.5	1023.5	1040.4	1044.3	1035.2	1040.4
40°	1058.7	1069.1	1078.2	1092.5	1116.0	1123.8	1139.4	1148.5	1161.5	1162.8	1153.7
42.5°	1130.3	1142.0	1142.0	1166.7	1192.8	1214.9	1234.5	1235.8	1244.9	1257.9	1244.9
45°	1207.1	1216.2	1220.1	1241.0	1256.6	1285.2	1313.9	1324.3	1328.2	1330.8	1334.7
47.5°	1277.4	1289.1	1293.0	1311.3	1328.2	1354.3	1372.5	1403.7	1411.5	1401.1	1411.5
50°	1321.7	1334.7	1345.1	1382.9	1412.8	1435.0	1450.6	1478.0	1493.6	1485.8	1487.1
52.5°	1390.7	1394.6	1405.0	1425.9	1468.8	1528.7	1547.0	1556.1	1578.2	1589.9	1569.1
55°	1484.5	1497.5	1505.3	1530.0	1552.2	1595.2	1664.2	1678.5	1673.3	1709.7	1674.6
57.5°	1500.1	1519.6	1544.4	1591.2	1630.3	1653.7	1696.7	1746.2	1744.9	1750.1	1751.4
60°	1498.8	1510.5	1524.8	1565.2	1642.0	1685.0	1704.5	1734.5	1774.9	1743.6	1776.2
62.5°	1489.7	1506.6	1522.2	1550.9	1592.5	1653.7	1708.4	1704.5	1759.2	1734.5	1752.7
65°	1435.0	1450.6	1479.3	1517.0	1567.8	1596.5	1651.1	1686.3	1678.5	1712.3	1678.5
67.5°	1339.9	1354.3	1377.7	1422.0	1475.4	1517.0	1536.6	1595.2	1588.6	1626.4	1586.0
70°	1209.7	1227.9	1255.3	1286.5	1338.6	1382.9	1405.0	1442.8	1461.0	1458.4	1455.8
72.5°	1053.5	1069.1	1091.2	1125.1	1169.3	1212.3	1229.2	1257.9	1287.8	1278.7	1281.3
75°	879.0	892.0	908.9	929.7	971.4	1005.3	1024.8	1050.8	1074.3	1067.8	1065.2
77.5°	677.1	692.8	711.0	730.5	747.4	778.7	793.0	811.2	830.8	826.9	828.2
80°	474.0	487.0	498.7	519.6	532.6	543.0	558.6	566.4	580.8	578.2	582.1
82.5°	289.1	298.2	306.0	316.4	328.1	325.5	326.8	336.0	347.7	341.2	351.6
85°	141.9	140.6	148.4	151.1	158.9	157.6	156.3	161.5	168.0	164.1	164.1
87.5°	36.5	36.5	36.5	37.8	41.7	45.6	41.7	44.3	46.9	48.2	46.9
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°	505.2	505.2	505.2	505.2	505.2	505.2	505.2	505.2
2.5°	514.4	515.7	514.4	515.7	515.7	515.7	515.7	514.4
5°	524.8	523.5	523.5	523.5	522.2	520.9	520.9	520.9
7.5°	530.0	530.0	528.7	527.4	526.1	526.1	528.7	527.4
10°	541.7	543.0	544.3	545.6	544.3	543.0	543.0	541.7
12.5°	559.9	561.2	563.8	566.4	566.4	565.1	562.5	561.2
15°	586.0	584.7	586.0	588.6	588.6	584.7	580.8	579.5
17.5°	622.4	618.5	615.9	615.9	618.5	614.6	610.7	612.0
20°	673.2	666.7	665.4	661.5	665.4	665.4	658.9	658.9
22.5°	709.7	704.5	699.3	695.4	700.6	703.2	696.7	691.4
25°	743.5	742.2	734.4	730.5	730.5	731.8	722.7	724.0
27.5°	777.4	777.4	772.2	765.7	763.1	767.0	759.2	756.6
30°	817.8	813.9	817.8	808.6	802.1	806.0	806.0	800.8
32.5°	869.8	864.6	868.5	858.1	849.0	847.7	841.2	833.4
35°	944.1	931.0	924.5	919.3	901.1	899.8	898.5	892.0
37.5°	1037.8	1020.9	1006.6	1007.9	981.8	975.3	975.3	966.2
40°	1149.8	1139.4	1118.6	1110.7	1084.7	1067.8	1066.5	1049.5
42.5°	1227.9	1231.8	1204.5	1186.3	1165.4	1139.4	1140.7	1122.5
45°	1313.9	1306.1	1281.3	1251.4	1242.3	1213.6	1214.9	1196.7
47.5°	1395.9	1367.3	1354.3	1321.7	1307.4	1274.8	1278.7	1265.7
50°	1476.7	1445.4	1431.1	1395.9	1372.5	1338.6	1334.7	1307.4
52.5°	1562.6	1532.6	1513.1	1462.3	1431.1	1405.0	1394.6	1381.6
55°	1674.6	1644.6	1596.5	1547.0	1523.5	1483.2	1479.3	1462.3
57.5°	1724.1	1700.6	1649.8	1617.3	1570.4	1528.7	1513.1	1480.6
60°	1722.8	1715.0	1662.9	1630.3	1561.3	1524.8	1507.9	1488.4
62.5°	1708.4	1699.3	1638.1	1601.7	1539.2	1507.9	1494.9	1470.1
65°	1679.8	1648.5	1593.8	1563.9	1496.2	1468.8	1440.2	1418.1
67.5°	1599.1	1533.9	1509.2	1471.4	1405.0	1376.4	1349.0	1326.9
70°	1448.0	1399.8	1377.7	1330.8	1273.5	1255.3	1221.4	1196.7
72.5°	1255.3	1229.2	1205.8	1155.0	1114.7	1096.4	1062.6	1041.7
75°	1041.7	1026.1	993.6	955.8	919.3	912.8	876.4	868.5
77.5°	808.6	794.3	768.3	740.9	724.0	711.0	678.4	675.8
80°	566.4	557.3	536.5	524.8	513.1	501.3	479.2	476.6
82.5°	334.7	328.1	329.4	317.7	311.2	308.6	291.7	293.0
85°	161.5	156.3	156.3	156.3	149.7	148.4	138.0	139.3
87.5°	46.9	41.7	41.7	41.7	39.1	39.1	33.9	35.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)