

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: P192549

Luminaire Tested: **GLEON-AF-01-LED-E1-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-5MQ-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6331.6 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 59
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



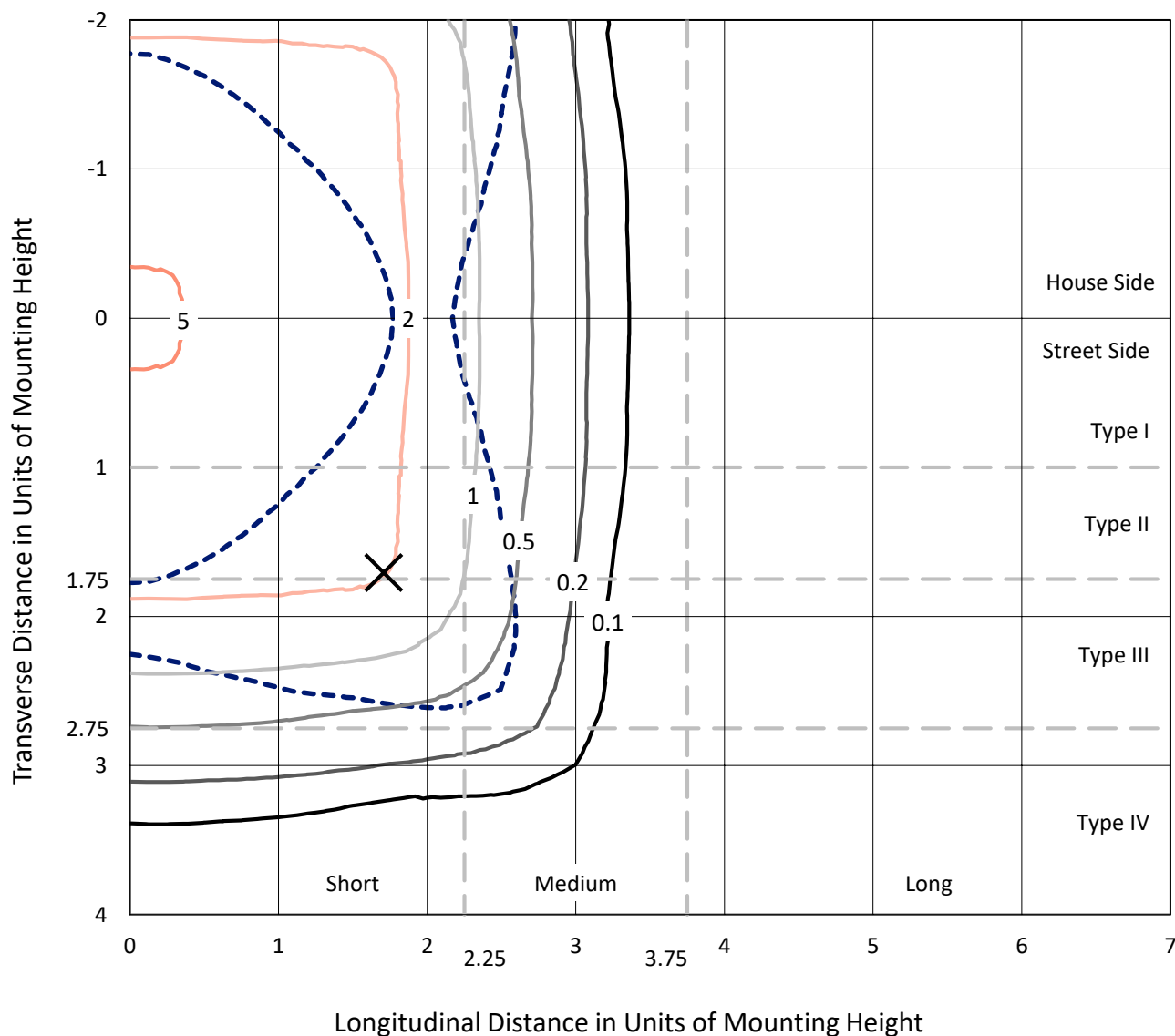
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

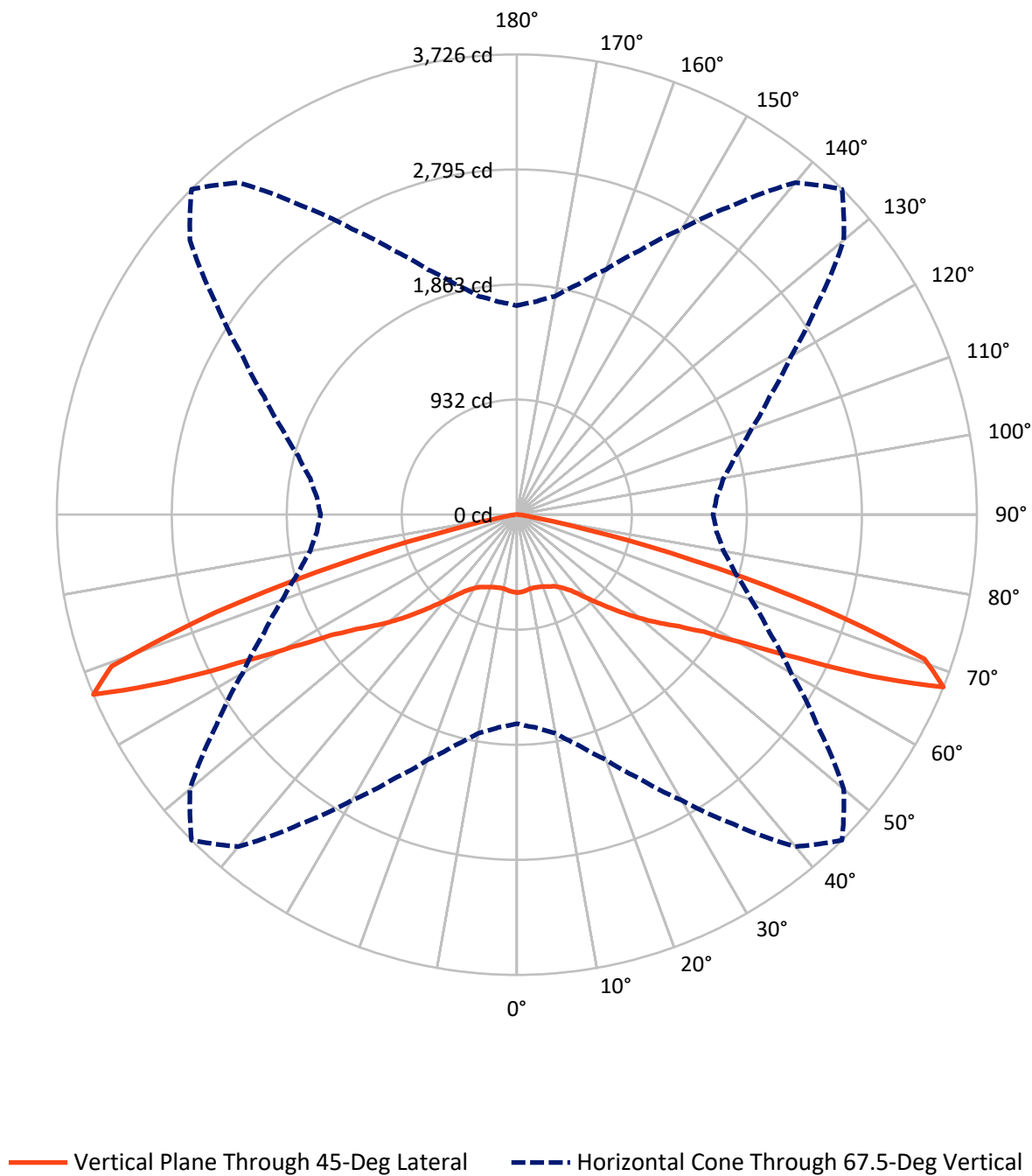


Based on 10 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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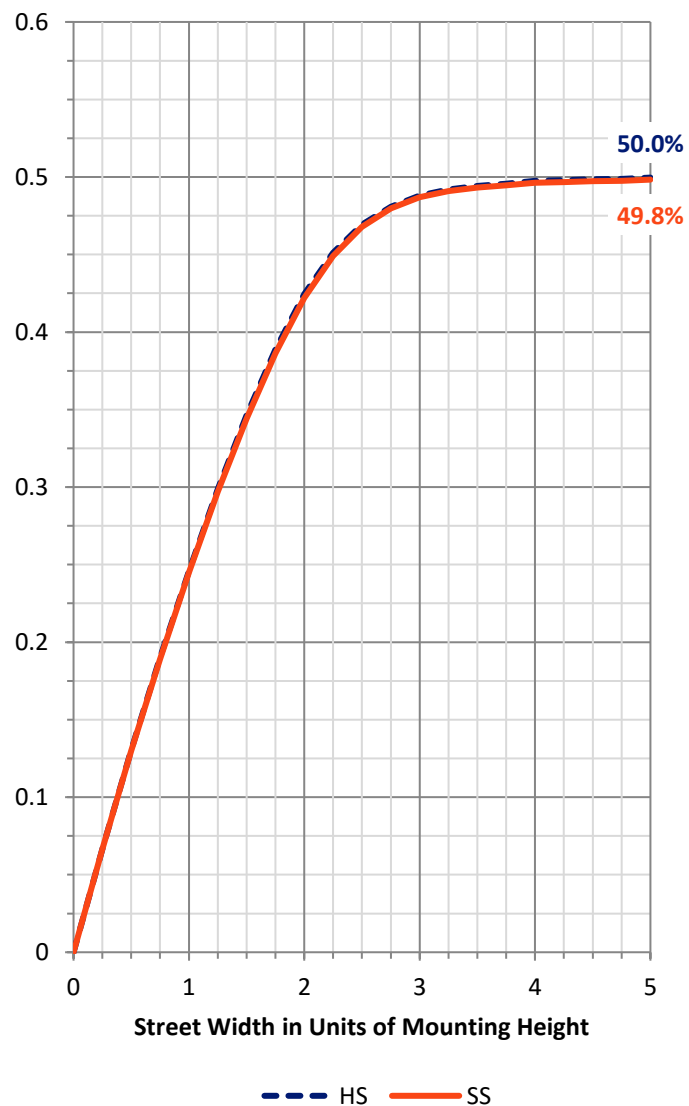
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3165.8	0.0	3165.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3165.8	0.0	3165.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	6331.6	0.0	6331.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.1	0.9
10°-20°	171.4	2.7
20°-30°	291.3	4.6
30°-40°	476.2	7.5
40°-50°	850.1	13.4
50°-60°	1433.4	22.6
60°-70°	2224.4	35.1
70°-80°	781.5	12.3
80°-90°	44.2	0.7
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°	6331.6	100.0
0°-180°	6331.6	100.0

Coefficient of Utilization



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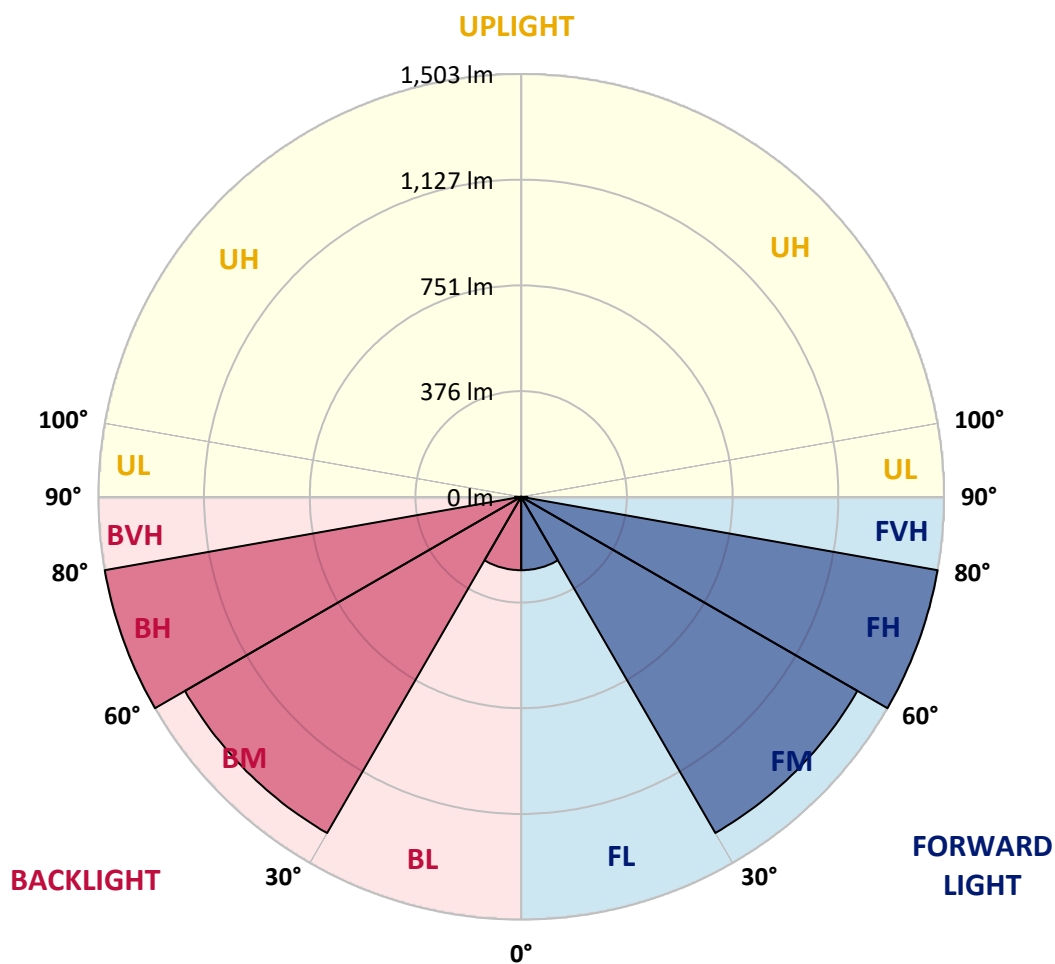
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	260.9	4.1			
FM	(30°-60°)	1379.9	21.8			
FH	(60°-80°)	1503.0	23.7			G1/1800
FVH	(80°-90°)	22.1	0.3			G1/100
BL	(0°-30°)	260.9	4.1	B1/500		
BM	(30°-60°)	1379.9	21.8	B2/2500		
BH	(60°-80°)	1503.0	23.7	B3/2500		G1/1800
BVH	(80°-90°)	22.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
2.5°	628.7	629.3	629.3	629.3	628.9	628.9	628.4	628.9	628.7	627.8	628.0
5°	623.5	624.0	624.0	623.7	624.5	624.3	623.5	624.0	623.7	623.1	623.5
7.5°	615.7	616.7	616.7	616.4	617.4	617.0	616.4	616.7	616.7	615.7	615.7
10°	607.4	607.9	607.9	607.7	609.1	609.1	608.8	609.6	610.0	609.1	608.6
12.5°	599.5	600.4	600.4	601.6	603.0	603.5	605.1	606.2	607.4	607.1	606.0
15°	594.9	595.5	596.5	598.0	600.4	602.4	604.8	607.4	609.6	610.3	608.6
17.5°	591.9	592.8	594.6	596.5	599.9	603.3	606.8	610.3	613.5	614.7	612.6
20°	591.1	591.6	593.4	596.9	601.3	606.5	611.5	615.5	619.9	621.3	619.9
22.5°	592.8	594.1	596.0	600.1	606.0	612.6	618.4	624.0	629.6	632.2	630.1
25°	600.7	601.8	604.4	609.6	616.1	623.1	629.8	636.2	641.2	643.7	642.3
27.5°	615.2	616.7	619.9	625.2	632.2	639.7	647.1	652.3	656.3	657.2	655.4
30°	637.1	640.3	644.1	649.9	658.1	664.4	671.7	676.5	681.3	681.3	679.9
32.5°	671.2	674.3	678.4	684.0	690.4	697.4	703.7	707.9	713.0	713.4	709.8
35°	722.1	723.6	727.0	730.5	736.4	742.5	748.0	750.6	755.0	755.3	752.1
37.5°	789.4	789.6	792.0	793.1	798.3	805.1	810.3	812.2	816.1	815.6	812.4
40°	867.7	869.1	870.0	871.8	877.4	883.7	889.3	890.1	894.5	893.6	889.5
42.5°	958.2	958.9	963.7	966.4	971.7	974.8	981.8	982.7	987.9	985.6	980.9
45°	1059.9	1065.1	1069.7	1075.0	1080.6	1084.3	1089.9	1088.7	1092.1	1088.7	1086.0
47.5°	1166.7	1170.5	1181.0	1189.2	1198.1	1201.5	1209.3	1205.7	1209.3	1204.2	1203.4
50°	1284.4	1291.0	1300.0	1309.4	1319.0	1324.2	1334.4	1330.1	1334.7	1330.1	1327.5
52.5°	1400.2	1402.1	1421.8	1435.4	1448.9	1455.0	1461.2	1459.0	1459.3	1459.0	1456.4
55°	1510.3	1514.4	1534.2	1552.8	1576.1	1593.3	1603.8	1602.7	1600.0	1597.4	1593.0
57.5°	1634.3	1638.5	1661.2	1684.1	1710.7	1735.0	1756.4	1778.2	1786.6	1788.9	1779.4
60°	1802.0	1801.8	1832.1	1860.0	1897.9	1934.2	1980.9	2028.3	2082.7	2108.0	2074.7
62.5°	1972.6	1979.7	2023.4	2072.8	2150.9	2226.9	2312.8	2397.2	2483.4	2553.6	2479.0
65°	1952.4	1979.1	2044.0	2156.1	2300.2	2471.5	2656.6	2852.6	3029.6	3151.4	3014.8
67.5°	1692.0	1730.1	1796.2	1932.5	2112.7	2359.7	2670.7	3058.1	3508.7	3726.4	3456.5
70°	1226.4	1269.5	1338.8	1471.8	1650.4	1885.0	2222.8	2688.1	3284.5	3504.0	3206.6
72.5°	610.3	633.6	676.5	761.1	896.3	1086.7	1392.9	1840.3	2367.7	2569.3	2297.6
75°	207.3	218.1	225.4	253.1	295.9	370.6	523.0	804.4	1227.3	1471.2	1209.8
77.5°	119.6	119.9	124.9	129.9	137.1	145.4	165.6	217.5	376.2	534.3	389.3
80°	77.5	77.1	81.3	85.0	89.9	94.1	95.2	100.7	116.2	137.7	123.1
82.5°	40.2	45.2	54.2	59.1	68.4	70.2	67.8	65.8	69.6	72.2	74.0
85°	22.2	19.2	28.9	37.2	41.3	41.9	41.9	39.6	41.1	40.2	43.7
87.5°	10.2	9.3	11.4	18.3	19.5	16.6	17.5	15.4	11.0	10.8	12.2
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°	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
2.5°	628.0	628.4	628.4	629.3	629.6	630.1	630.7	631.0
5°	623.1	624.0	623.5	624.3	624.3	624.9	624.9	625.2
7.5°	615.7	616.7	616.7	616.7	616.4	617.4	617.4	617.4
10°	608.2	608.8	608.6	607.9	607.4	608.2	607.9	607.7
12.5°	606.0	604.4	603.3	602.7	601.6	601.8	600.9	600.9
15°	607.4	604.8	602.7	601.8	600.7	600.1	599.5	599.9
17.5°	611.2	607.9	605.3	603.8	602.4	601.6	600.4	600.7
20°	617.9	614.0	610.3	607.4	604.8	603.3	602.4	602.1
22.5°	627.8	622.2	616.7	612.3	608.8	606.8	606.0	605.3
25°	639.1	633.0	626.6	621.6	618.2	615.5	613.8	613.8
27.5°	653.4	648.5	642.7	636.8	633.6	631.0	629.8	629.3
30°	677.3	672.6	667.9	662.4	658.3	655.7	653.7	651.9
32.5°	707.9	704.0	700.3	696.2	692.3	688.9	685.7	684.3
35°	750.9	748.0	745.3	740.8	739.2	737.3	735.6	734.0
37.5°	810.3	809.2	809.2	804.2	803.0	802.2	800.5	800.8
40°	888.4	889.5	888.1	886.3	885.4	883.2	883.2	885.1
42.5°	980.7	981.5	984.8	981.8	985.1	982.1	980.4	981.8
45°	1087.7	1091.1	1097.4	1094.6	1096.5	1091.6	1085.5	1085.8
47.5°	1208.1	1211.0	1213.7	1211.5	1211.9	1203.7	1195.6	1193.5
50°	1333.0	1334.2	1335.5	1332.8	1333.3	1324.2	1314.9	1315.3
52.5°	1456.4	1462.0	1467.8	1459.9	1458.2	1448.0	1434.9	1429.6
55°	1597.7	1605.6	1598.8	1585.2	1571.4	1557.8	1540.5	1537.8
57.5°	1771.7	1758.4	1737.4	1711.5	1692.5	1673.5	1656.0	1648.6
60°	2014.0	1963.6	1925.8	1887.4	1863.2	1839.6	1816.7	1813.1
62.5°	2356.4	2269.5	2193.9	2114.5	2049.6	1998.9	1958.5	1947.1
65°	2785.7	2579.8	2401.3	2234.8	2090.0	1980.9	1912.1	1881.9
67.5°	2970.2	2563.8	2257.8	2021.3	1832.1	1699.8	1625.6	1588.6
70°	2610.1	2126.1	1793.3	1556.6	1384.2	1243.3	1176.0	1136.4
72.5°	1795.6	1352.5	1069.4	873.0	735.2	617.4	570.7	567.2
75°	806.3	534.1	368.1	283.6	238.7	207.6	198.0	190.7
77.5°	225.6	166.8	148.8	139.2	129.9	119.1	115.0	116.0
80°	109.8	103.7	99.5	93.4	85.0	76.1	71.9	73.6
82.5°	72.7	71.9	74.6	70.2	57.9	49.1	41.3	37.8
85°	44.2	44.8	45.7	46.0	39.0	27.5	18.7	21.0
87.5°	17.5	20.1	21.9	22.7	21.3	13.1	10.5	10.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)