

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: STREETWORKS

Report Number: P147570

Luminaire Tested: **AVS-E02-LED-E-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P147570
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: AVS-E02-LED-E-U-5MQ
Description: VISION SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6447.5 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 52.1
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: 28.75 FT

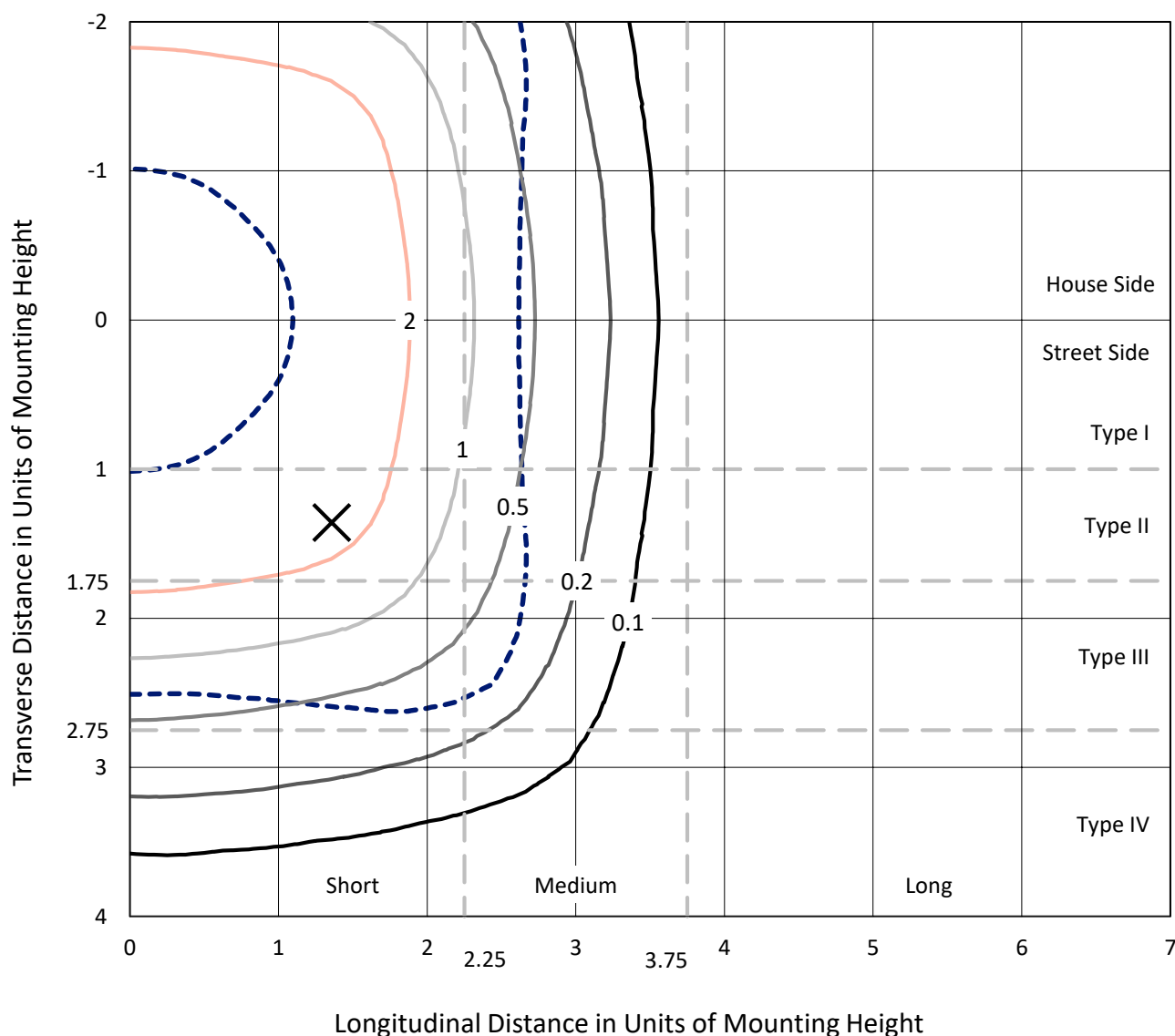


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

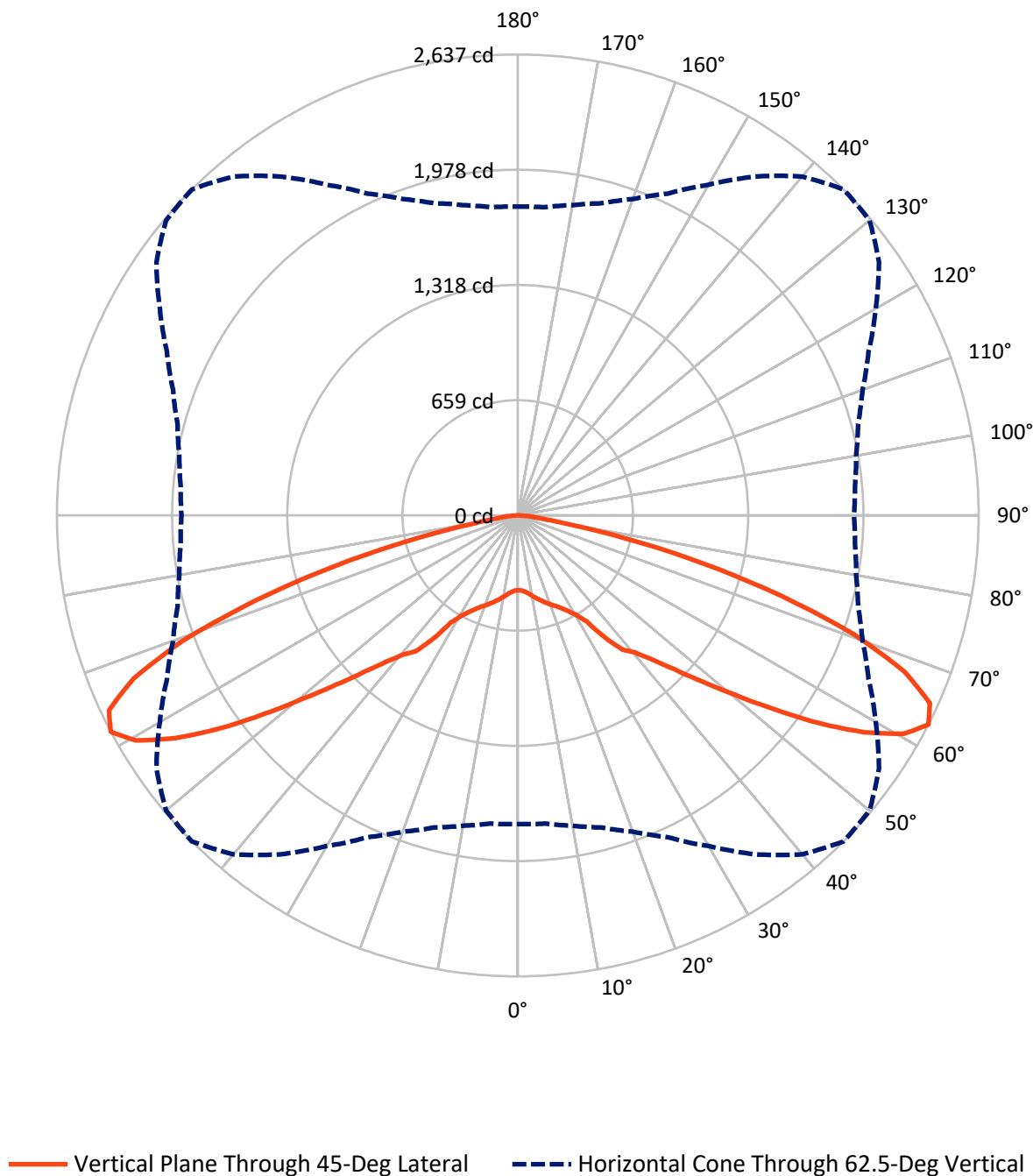


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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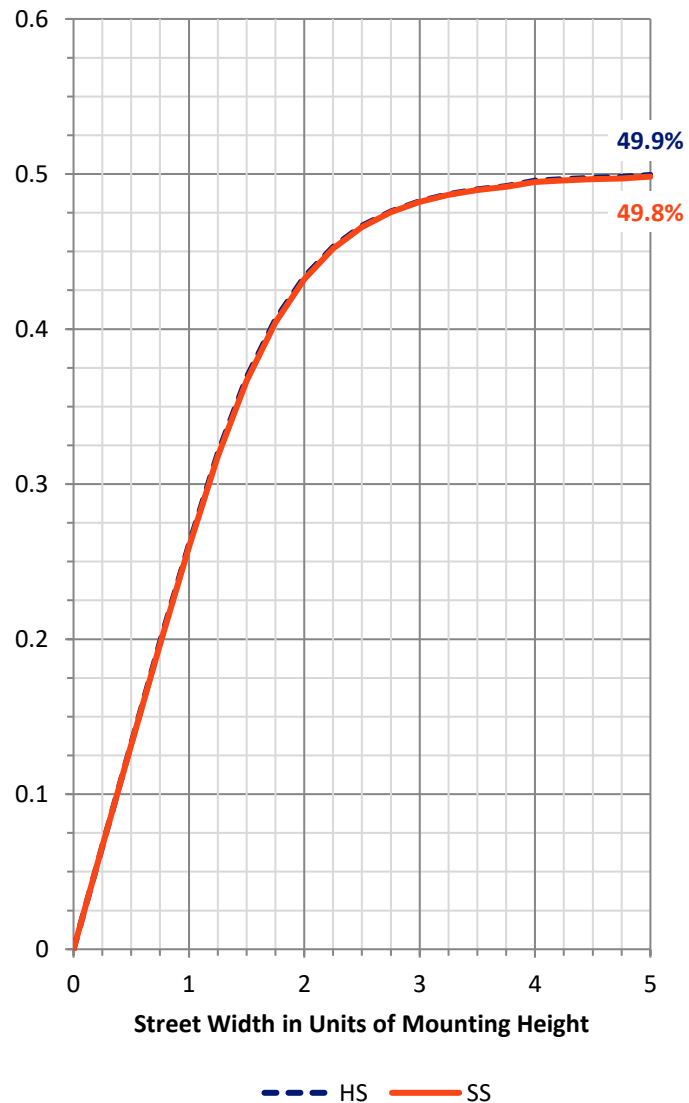
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3223.8	0.0	3223.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3223.8	0.0	3223.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	6447.5	0.0	6447.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	0.7
10°-20°	145.0	2.2
20°-30°	280.3	4.3
30°-40°	542.8	8.4
40°-50°	980.0	15.2
50°-60°	1704.1	26.4
60°-70°	1934.6	30.0
70°-80°	750.1	11.6
80°-90°	67.7	1.0
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°	6447.5	100.0
0°-180°	6447.5	100.0

Coefficient of Utilization



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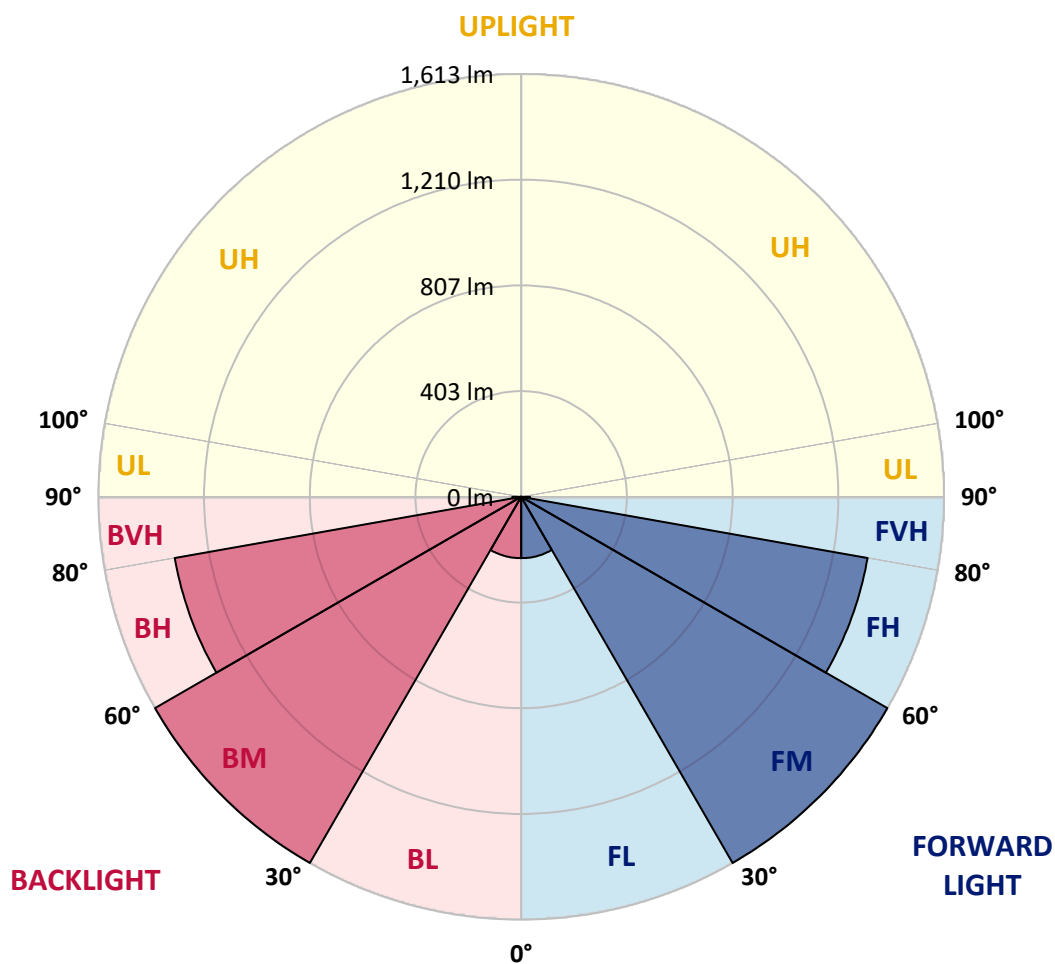
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	234.1	3.6			
FM	(30°-60°)	1613.5	25.0			
FH	(60°-80°)	1342.4	20.8			G1/1800
FVH	(80°-90°)	33.8	0.5			G1/100
BL	(0°-30°)	234.1	3.6	B1/500		
BM	(30°-60°)	1613.5	25.0	B2/2500		
BH	(60°-80°)	1342.4	20.8	B3/2500		G1/1800
BVH	(80°-90°)	33.8	0.5			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°	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0
2.5°	430.7	432.0	431.7	431.0	431.0	431.1	430.7	429.6	429.4	430.1	430.7
5°	440.6	440.6	440.6	440.6	440.0	440.0	439.4	438.8	439.0	438.3	438.0
7.5°	456.0	454.9	455.0	454.7	454.7	454.0	453.0	451.6	452.0	451.7	451.4
10°	474.0	474.4	473.4	474.4	472.6	472.3	471.0	470.3	470.1	469.0	469.0
12.5°	495.6	494.7	494.7	494.0	493.3	492.6	490.7	490.4	488.9	488.3	487.3
15°	516.1	515.6	514.3	513.0	512.6	512.0	509.6	508.3	508.0	506.3	505.1
17.5°	536.4	535.6	534.0	533.3	531.9	531.0	529.0	527.0	526.0	525.4	523.6
20°	557.9	557.3	555.6	554.3	552.7	551.3	548.4	546.6	545.7	544.7	543.3
22.5°	585.1	583.6	581.0	578.7	574.9	573.7	569.7	567.3	565.7	564.4	563.6
25°	614.3	614.7	611.0	608.1	603.6	600.0	595.0	592.3	590.7	589.3	589.0
27.5°	651.0	651.3	648.0	643.6	637.0	633.0	626.3	623.0	622.0	620.7	620.3
30°	709.0	706.0	700.3	693.4	687.3	678.8	669.0	665.6	662.4	661.3	661.3
32.5°	815.6	814.1	809.3	791.9	784.0	766.0	749.0	739.3	728.3	723.0	719.6
35°	890.4	889.7	886.0	880.0	875.0	871.3	861.3	859.7	857.6	857.6	860.3
37.5°	945.3	941.3	940.7	941.7	940.3	941.0	949.0	960.0	969.3	974.0	973.3
40°	1026.7	1020.9	1024.4	1022.0	1019.1	1018.3	1020.9	1025.3	1029.6	1029.6	1028.6
42.5°	1133.1	1135.6	1137.0	1127.4	1121.0	1119.4	1125.7	1124.4	1128.7	1127.0	1122.7
45°	1291.0	1289.3	1286.9	1275.3	1265.3	1257.3	1259.0	1256.7	1257.0	1254.3	1251.0
47.5°	1450.4	1456.0	1446.3	1440.6	1429.3	1423.6	1428.4	1424.4	1432.0	1418.0	1411.3
50°	1605.0	1609.0	1605.6	1597.7	1597.7	1605.7	1611.3	1618.7	1629.3	1613.3	1589.3
52.5°	1731.6	1735.0	1740.0	1746.7	1763.0	1779.9	1803.9	1829.6	1849.9	1847.0	1819.7
55°	1808.9	1813.1	1821.3	1844.4	1873.6	1918.3	1972.6	2032.3	2079.0	2101.8	2081.7
57.5°	1835.0	1837.9	1860.7	1888.3	1934.0	2000.4	2091.4	2194.4	2284.0	2340.9	2332.0
60°	1829.0	1829.0	1852.0	1889.9	1954.0	2042.1	2170.7	2313.4	2450.7	2536.0	2523.3
62.5°	1766.0	1769.3	1802.3	1848.0	1925.4	2030.7	2184.0	2366.3	2530.7	2636.7	2626.3
65°	1628.0	1630.4	1666.0	1720.3	1806.6	1931.3	2099.1	2300.9	2489.3	2591.3	2572.0
67.5°	1405.0	1407.4	1436.4	1497.6	1589.0	1719.4	1900.3	2122.7	2306.9	2387.7	2329.6
70°	1117.7	1124.4	1143.0	1208.0	1277.3	1405.1	1571.6	1794.0	1968.0	2044.4	1980.3
72.5°	761.7	778.7	801.3	859.1	925.4	1031.3	1163.9	1351.3	1491.0	1579.3	1522.4
75°	429.0	453.1	460.0	503.6	558.3	642.0	739.1	873.4	1014.3	1086.0	1017.3
77.5°	185.4	205.0	213.7	234.0	276.7	311.7	370.6	461.3	570.4	620.6	538.3
80°	91.4	96.0	99.7	106.0	117.9	129.3	157.3	197.0	241.7	253.1	201.2
82.5°	70.7	74.0	80.3	85.4	88.3	91.4	94.1	99.4	103.7	106.0	100.0
85°	49.6	54.1	60.9	66.6	70.1	72.3	74.6	76.3	72.3	66.0	69.3
87.5°	13.1	17.0	23.6	25.7	29.0	30.7	30.1	31.0	28.0	20.3	22.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0
2.5°	430.3	430.1	430.3	430.3	430.3	430.1	430.1	430.1
5°	437.9	437.9	438.3	437.7	437.7	437.9	437.7	437.3
7.5°	451.0	450.7	450.7	450.4	450.7	450.4	450.4	449.9
10°	468.3	467.7	468.0	466.9	466.9	466.7	466.7	466.6
12.5°	487.0	486.0	486.3	485.4	483.7	483.9	484.4	484.0
15°	505.0	504.0	503.0	502.4	501.3	501.7	501.7	501.3
17.5°	523.3	521.3	521.0	520.0	519.7	519.6	519.6	520.0
20°	542.4	540.9	540.7	539.7	539.3	540.3	540.7	540.0
22.5°	562.7	562.1	562.7	562.1	563.0	563.7	563.9	563.3
25°	588.4	587.7	588.6	591.0	592.3	593.0	594.6	594.0
27.5°	621.3	620.6	623.0	626.3	628.3	631.7	633.4	634.0
30°	664.0	667.0	668.3	675.0	676.4	681.7	681.7	684.0
32.5°	726.0	731.6	741.8	752.0	766.3	776.7	776.7	782.0
35°	862.0	864.4	871.9	873.7	876.7	880.0	876.7	879.4
37.5°	966.4	956.1	948.6	938.3	932.0	932.0	932.6	932.0
40°	1019.7	1015.6	1012.3	1003.7	1002.3	1002.0	1002.0	1003.3
42.5°	1115.0	1105.3	1100.0	1092.6	1090.4	1089.7	1089.3	1089.9
45°	1239.0	1223.3	1208.9	1201.7	1195.3	1189.3	1191.3	1191.3
47.5°	1383.3	1359.0	1335.8	1323.0	1311.9	1306.9	1303.6	1302.7
50°	1559.0	1525.0	1494.9	1471.3	1455.3	1455.0	1456.6	1446.0
52.5°	1774.3	1720.6	1683.3	1651.4	1636.4	1634.7	1629.4	1623.3
55°	2013.1	1949.3	1887.7	1853.3	1833.6	1823.0	1816.7	1806.6
57.5°	2259.0	2173.3	2084.7	2029.6	1995.0	1971.0	1958.3	1952.6
60°	2448.7	2331.6	2214.7	2126.3	2068.6	2033.0	2011.0	2002.0
62.5°	2523.3	2364.7	2214.7	2098.7	2015.3	1966.0	1936.4	1923.3
65°	2434.3	2246.4	2075.6	1947.7	1854.7	1799.6	1767.3	1753.4
67.5°	2185.7	2019.7	1834.0	1706.7	1611.0	1556.7	1521.7	1511.3
70°	1832.3	1662.6	1485.3	1371.6	1286.4	1242.0	1205.6	1201.3
72.5°	1377.0	1230.7	1078.7	984.7	916.1	842.7	824.0	833.4
75°	882.7	745.7	610.4	525.6	463.0	393.0	366.0	372.6
77.5°	418.0	323.7	233.7	180.7	151.7	129.7	123.9	120.6
80°	155.0	125.6	111.0	105.3	101.3	97.6	94.9	92.0
82.5°	100.3	98.0	94.9	94.1	91.0	86.3	77.7	74.0
85°	75.0	75.0	71.0	71.3	69.0	63.0	54.9	50.7
87.5°	22.0	19.7	18.0	16.6	16.4	14.7	10.7	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)