

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: P157378

Luminaire Tested: **VST-E08-LED-E-U-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157378
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33708)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E08-LED-E-U-5MQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (168) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21598.5 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

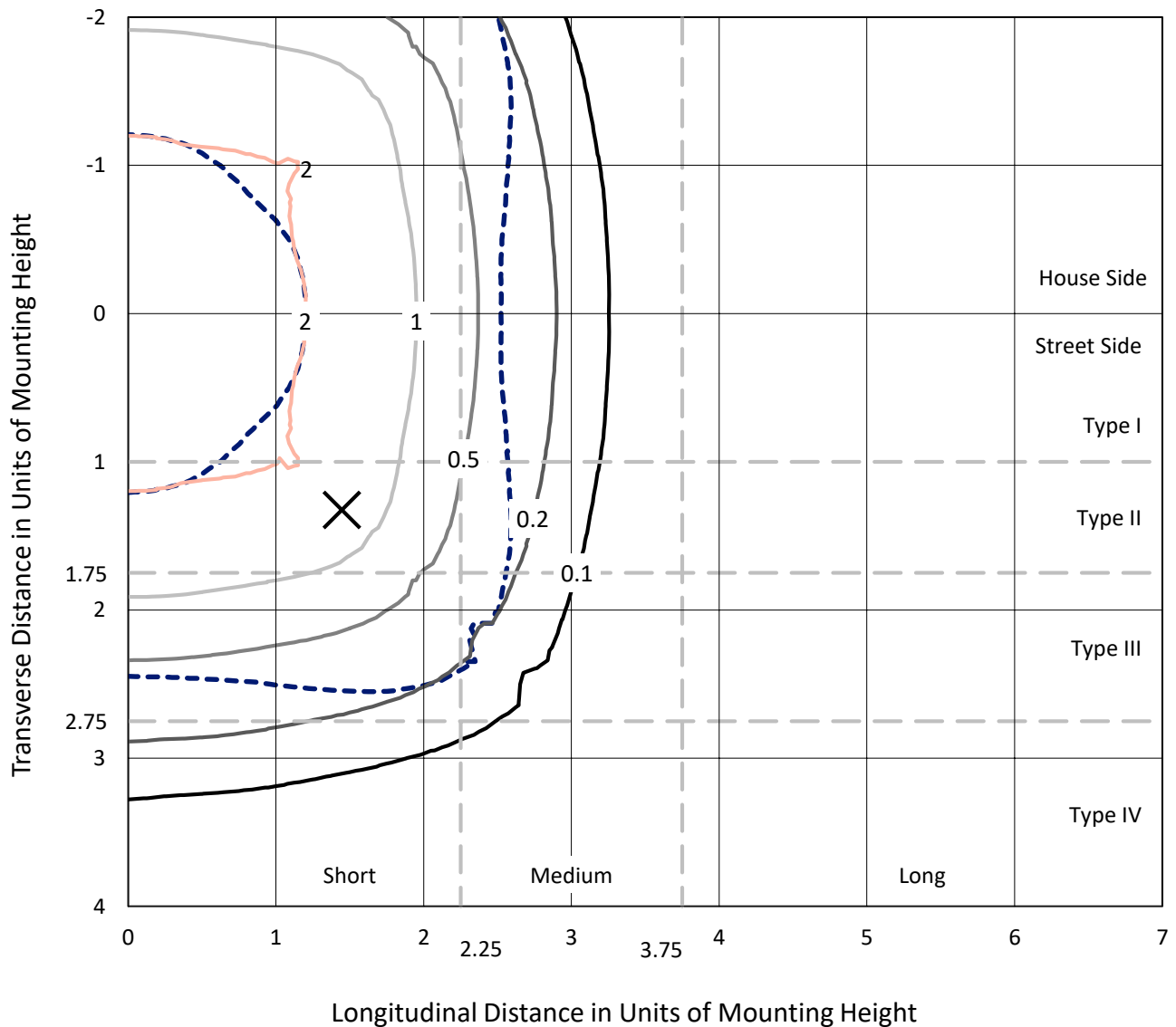
Input Watts (W): 194.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P157378
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Iso-Footcandle Lines of Horizontal Illumination

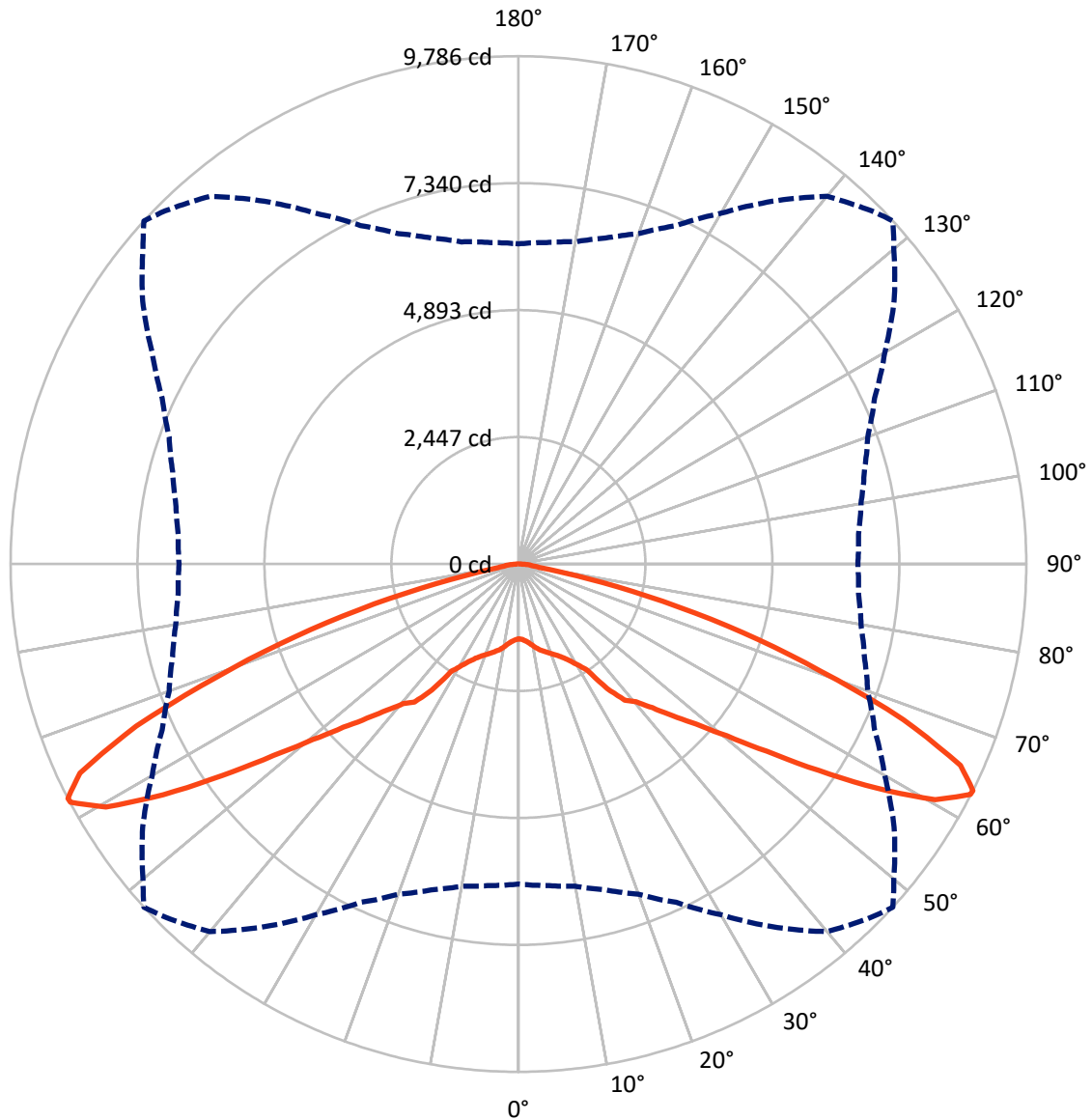
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P157378
CATALOG NUMBER: VST-E08-LED-E-U-5MQ-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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CATALOG NUMBER: VST-E08-LED-E-U-5MQ-8030

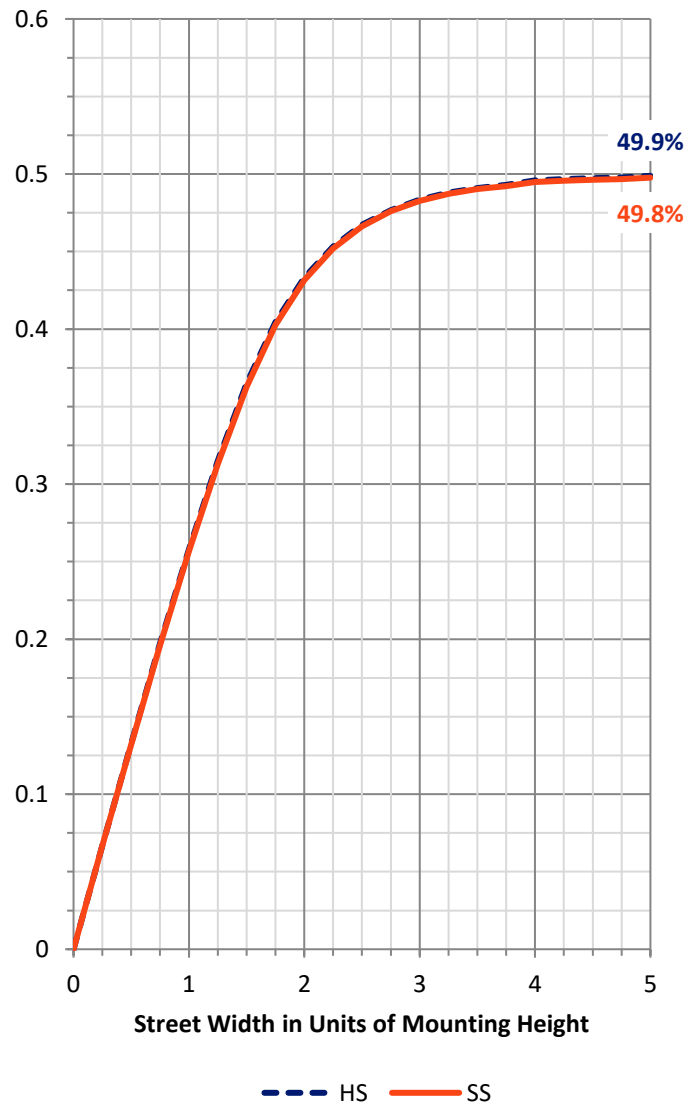
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10799.2	0.0	10799.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10799.2	0.0	10799.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	21598.5	0.0	21598.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	0.7
10°-20°	492.2	2.3
20°-30°	941.5	4.4
30°-40°	1800.9	8.3
40°-50°	3116.2	14.4
50°-60°	5596.5	25.9
60°-70°	6805.4	31.5
70°-80°	2457.7	11.4
80°-90°	243.4	1.1
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°	21598.5	100.0
0°-180°	21598.5	100.0



REPORT NUMBER: P157378

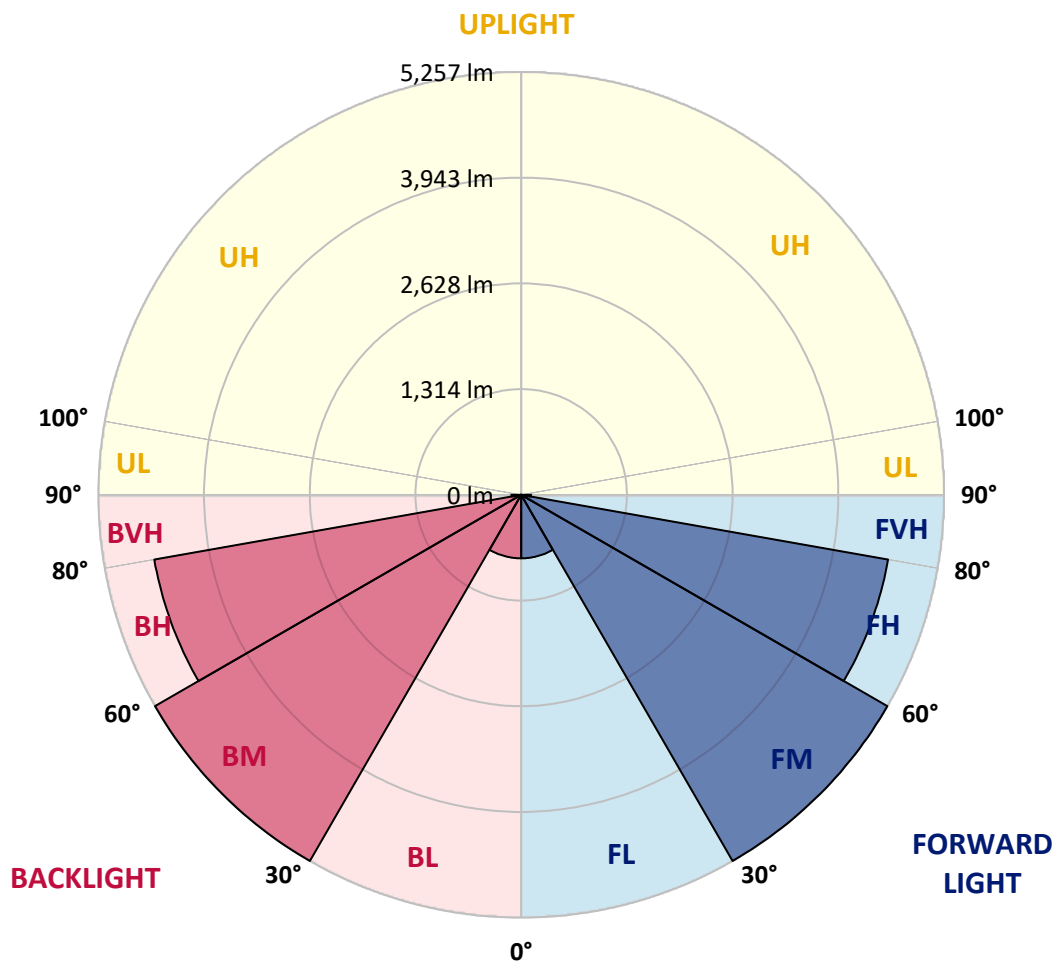
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	789.2	3.7			
FM	(30°-60°)	5256.8	24.3			
FH	(60°-80°)	4631.6	21.4			G2/5000
FVH	(80°-90°)	121.7	0.6			G2/225
BL	(0°-30°)	789.2	3.7	B2/1000		
BM	(30°-60°)	5256.8	24.3	B4/8500		
BH	(60°-80°)	4631.6	21.4	B4/5000		G2/5000
BVH	(80°-90°)	121.7	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2
2.5°	1451.7	1449.0	1450.3	1451.7	1450.3	1449.0	1449.0	1449.0	1451.7	1449.0	1455.7
5°	1480.0	1477.3	1478.7	1478.7	1478.7	1476.0	1476.0	1476.0	1474.6	1476.0	1490.8
7.5°	1534.0	1530.0	1528.6	1531.3	1528.6	1527.3	1525.9	1525.9	1523.2	1523.2	1542.1
10°	1598.9	1593.5	1596.2	1597.5	1593.5	1590.8	1590.8	1590.8	1586.7	1585.4	1609.7
12.5°	1670.4	1667.7	1667.7	1665.0	1663.7	1661.0	1659.6	1661.0	1655.6	1655.6	1679.9
15°	1739.3	1733.9	1735.2	1731.2	1728.5	1725.8	1724.4	1723.1	1720.4	1720.4	1735.2
17.5°	1802.8	1798.7	1797.4	1793.3	1789.3	1785.2	1782.5	1781.2	1777.1	1777.1	1790.6
20°	1868.9	1864.9	1862.2	1855.4	1848.7	1844.6	1839.2	1836.5	1831.1	1832.5	1847.3
22.5°	1944.6	1937.8	1932.4	1927.0	1914.8	1906.7	1900.0	1894.6	1891.9	1891.9	1912.1
25°	2045.8	2041.8	2033.7	2016.1	2001.3	1989.1	1978.3	1972.9	1967.5	1964.8	1995.9
27.5°	2170.1	2166.0	2155.2	2137.7	2117.4	2097.1	2085.0	2075.5	2068.8	2064.7	2109.3
30°	2334.8	2328.1	2318.6	2290.3	2272.7	2241.6	2228.1	2214.6	2199.8	2203.8	2256.5
32.5°	2657.6	2648.1	2618.4	2587.3	2533.3	2491.5	2448.2	2415.8	2384.8	2380.7	2437.4
35°	2950.6	2946.5	2941.1	2919.5	2899.3	2873.6	2853.4	2819.6	2791.2	2784.5	2943.8
37.5°	3108.6	3118.0	3109.9	3107.2	3107.2	3119.4	3157.2	3195.0	3222.0	3238.2	3327.3
40°	3350.3	3350.3	3340.9	3335.5	3324.6	3340.9	3357.1	3385.4	3397.6	3398.9	3489.4
42.5°	3624.4	3625.8	3616.3	3600.1	3594.7	3609.6	3631.2	3658.2	3674.4	3678.5	3783.8
45°	3929.6	3925.6	3917.5	3912.1	3916.1	3929.6	3955.3	4007.9	4032.3	4051.2	4165.9
47.5°	4260.5	4287.5	4264.5	4268.6	4268.6	4310.4	4368.5	4411.7	4450.9	4487.3	4608.9
50°	4693.9	4698.0	4702.0	4714.2	4722.3	4777.7	4850.6	4901.9	4958.6	5005.9	5204.4
52.5°	5273.3	5265.2	5285.4	5298.9	5344.8	5374.5	5496.1	5560.9	5639.2	5700.0	5990.3
55°	5966.0	5962.0	5991.7	6002.5	6063.2	6136.2	6271.2	6413.0	6546.7	6620.9	7018.0
57.5°	6462.9	6473.7	6525.1	6596.6	6715.5	6870.8	7072.0	7385.3	7639.1	7720.2	8157.7
60°	6572.3	6607.4	6684.4	6827.5	7031.5	7320.4	7716.1	8195.5	8660.0	8815.3	9225.8
62.5°	6265.8	6306.3	6419.7	6591.2	6857.3	7285.3	7856.5	8533.1	9223.1	9568.8	9775.4
63°	6168.6	6218.5	6303.6	6502.1	6772.2	7194.9	7802.5	8531.7	9247.4	9624.2	9786.2
65°	5712.1	5721.6	5848.5	6047.0	6350.9	6789.7	7402.8	8245.5	9039.5	9474.3	9362.2
67.5°	4915.4	4954.6	5061.2	5261.1	5556.8	6013.3	6679.0	7458.2	8156.3	8503.4	8002.4
70°	3971.5	3968.8	4101.1	4261.8	4522.4	4923.5	5506.9	6210.4	6764.1	7016.6	6178.0
72.5°	2837.2	2766.9	2864.2	3042.4	3255.8	3575.8	4037.7	4584.6	5080.2	5298.9	4517.0
75°	1292.3	1273.4	1359.8	1536.7	1752.8	2037.7	2417.2	2889.8	3365.2	3621.7	2877.7
77.5°	434.8	440.2	474.0	537.5	653.6	796.7	1033.0	1335.5	1720.4	1974.3	1350.4
80°	291.7	299.8	310.6	320.0	333.5	355.2	406.5	484.8	603.6	730.6	426.7
82.5°	239.0	248.5	272.8	283.6	291.7	298.4	302.5	307.9	307.9	310.6	270.1
85°	171.5	187.7	220.1	240.4	248.5	253.9	260.6	268.7	256.6	245.8	209.3
87.5°	59.4	81.0	118.8	131.0	140.4	141.8	151.2	167.4	159.3	129.6	63.5
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2	1442.2
2.5°	1449.0	1447.6	1449.0	1450.3	1450.3	1450.3	1451.7	1453.0	1453.0
5°	1476.0	1477.3	1476.0	1477.3	1477.3	1478.7	1478.7	1481.4	1481.4
7.5°	1521.9	1524.6	1523.2	1525.9	1525.9	1528.6	1527.3	1531.3	1531.3
10°	1584.0	1586.7	1589.4	1590.8	1589.4	1592.1	1594.8	1596.2	1594.8
12.5°	1654.2	1655.6	1654.2	1656.9	1656.9	1659.6	1659.6	1663.7	1663.7
15°	1719.0	1717.7	1716.3	1720.4	1723.1	1724.4	1727.1	1731.2	1727.1
17.5°	1777.1	1778.5	1775.8	1779.8	1785.2	1789.3	1792.0	1797.4	1796.0
20°	1835.2	1832.5	1835.2	1841.9	1847.3	1852.7	1858.1	1866.2	1864.9
22.5°	1891.9	1894.6	1901.3	1906.7	1916.2	1924.3	1931.1	1941.9	1945.9
25°	1971.6	1971.6	1982.4	1989.1	2002.6	2013.4	2028.3	2040.4	2047.2
27.5°	2072.8	2072.8	2085.0	2099.8	2120.1	2139.0	2155.2	2171.4	2168.7
30°	2210.6	2217.3	2228.1	2247.0	2274.0	2297.0	2318.6	2334.8	2336.2
32.5°	2391.5	2399.6	2432.0	2480.7	2537.4	2580.6	2613.0	2652.2	2657.6
35°	2802.0	2822.3	2864.2	2903.3	2926.3	2951.9	2968.1	2969.5	2972.2
37.5°	3234.2	3199.1	3166.7	3136.9	3123.4	3120.7	3120.7	3126.1	3128.8
40°	3392.2	3374.6	3359.8	3340.9	3346.3	3344.9	3354.4	3362.5	3367.9
42.5°	3662.2	3648.7	3635.2	3610.9	3624.4	3620.4	3633.9	3646.0	3652.8
45°	4039.0	3997.1	3967.4	3928.3	3941.8	3933.7	3933.7	3948.5	3951.2
47.5°	4454.9	4406.3	4345.5	4296.9	4280.7	4265.9	4279.4	4279.4	4264.5
50°	4953.2	4895.1	4823.6	4745.3	4718.2	4703.4	4708.8	4715.5	4673.7
52.5°	5629.8	5564.9	5463.7	5344.8	5319.2	5307.0	5304.3	5294.9	5284.1
55°	6546.7	6425.1	6300.9	6144.3	6097.0	6083.5	6084.8	6074.0	6099.7
57.5°	7628.3	7450.1	7163.8	6973.4	6860.0	6816.7	6777.6	6761.4	6762.7
60°	8699.2	8335.9	7907.9	7575.7	7338.0	7186.8	7067.9	7001.7	6982.8
62.5°	9389.2	8818.0	8175.2	7636.4	7246.2	6996.3	6808.6	6689.8	6652.0
63°	9443.2	8838.3	8150.9	7573.0	7162.4	6900.5	6703.3	6580.4	6539.9
65°	9325.8	8634.4	7833.6	7144.9	6695.2	6404.9	6191.5	6075.4	6044.3
67.5°	8412.9	7837.6	7022.0	6310.4	5856.6	5562.2	5317.8	5207.1	5172.0
70°	6843.8	6449.4	5781.0	5173.3	4750.7	4467.1	4220.0	4128.1	4126.8
72.5°	5073.4	4561.6	4163.2	3717.6	3349.0	3123.4	2908.7	2806.1	2754.8
75°	3355.7	2807.5	2361.8	1986.4	1619.1	1416.6	1174.8	1070.9	1010.1
77.5°	1690.7	1253.2	898.0	622.5	483.4	397.0	363.3	345.7	344.3
80°	563.1	422.7	363.3	340.3	333.5	334.9	330.8	324.1	316.0
82.5°	311.9	328.1	330.8	321.4	321.4	316.0	310.6	284.9	271.4
85°	267.4	294.4	297.1	291.7	290.3	282.2	272.8	237.7	217.4
87.5°	167.4	193.1	189.1	168.8	186.4	174.2	164.7	106.7	78.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)