

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: P177328

Luminaire Tested: **VAL-E02-LED-E-U-WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177328
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33699)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VAL-E02-LED-E-U-WQ
Description: VALET TUNNEL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - WIDE TYPE V SQUARE
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6184.2 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

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



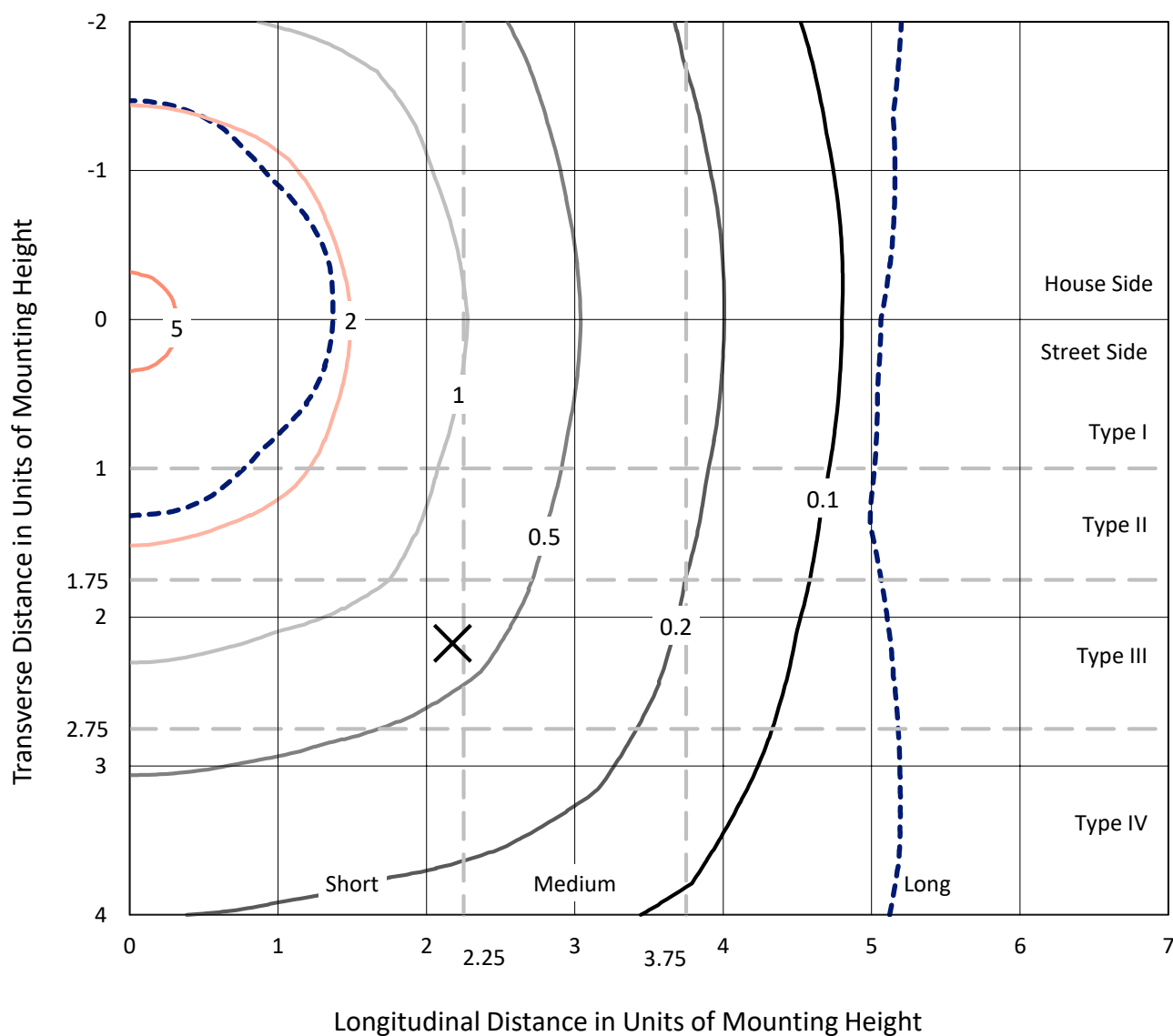
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

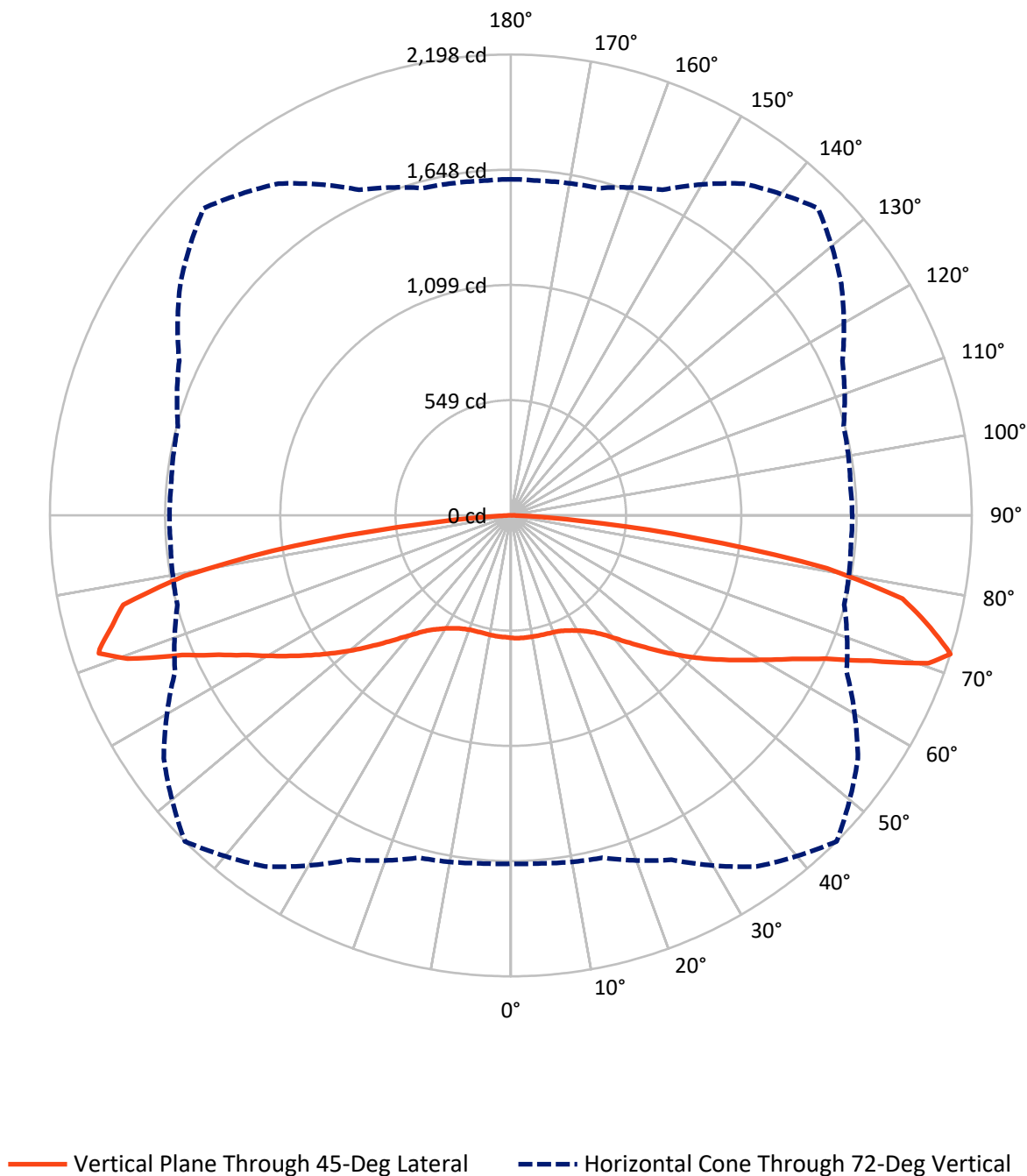


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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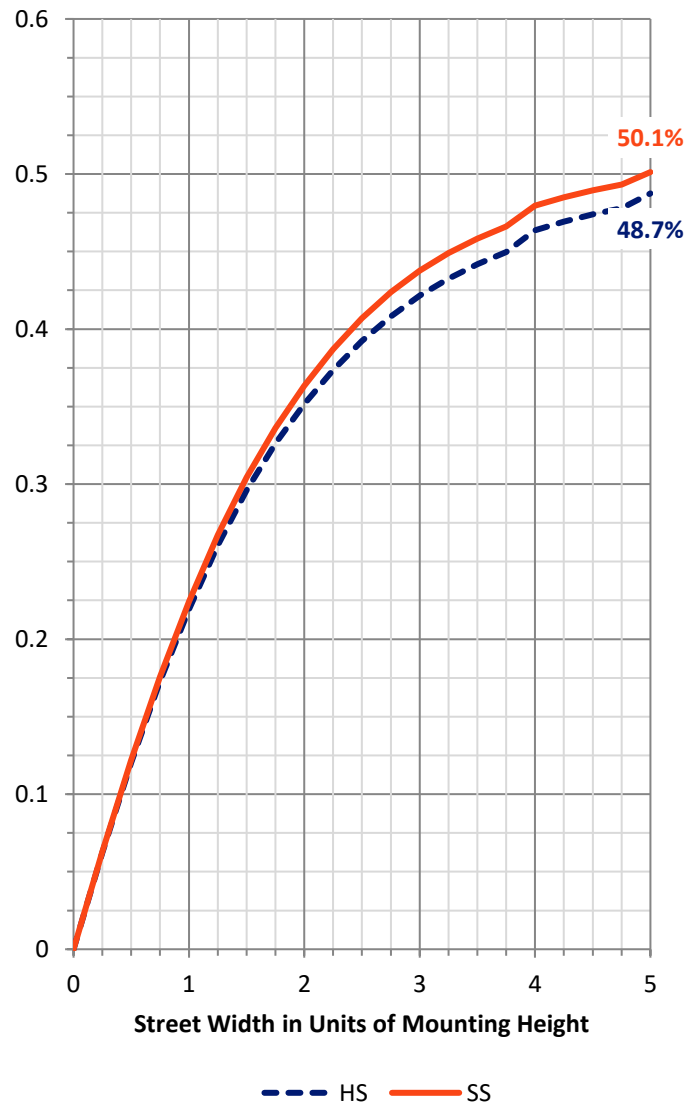
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3049.7	0.0	3049.7
	% Fixture	49.3	0.0	49.3
Street Side	Lumens	3134.5	0.0	3134.5
	% Fixture	50.7	0.0	50.7
Total	Lumens	6184.2	0.0	6184.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	0.9
10°-20°	165.6	2.7
20°-30°	278.1	4.5
30°-40°	423.3	6.8
40°-50°	669.2	10.8
50°-60°	1022.1	16.5
60°-70°	1497.4	24.2
70°-80°	1701.2	27.5
80°-90°	371.6	6.0
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°	6184.2	100.0
0°-180°	6184.2	100.0

Coefficient of Utilization



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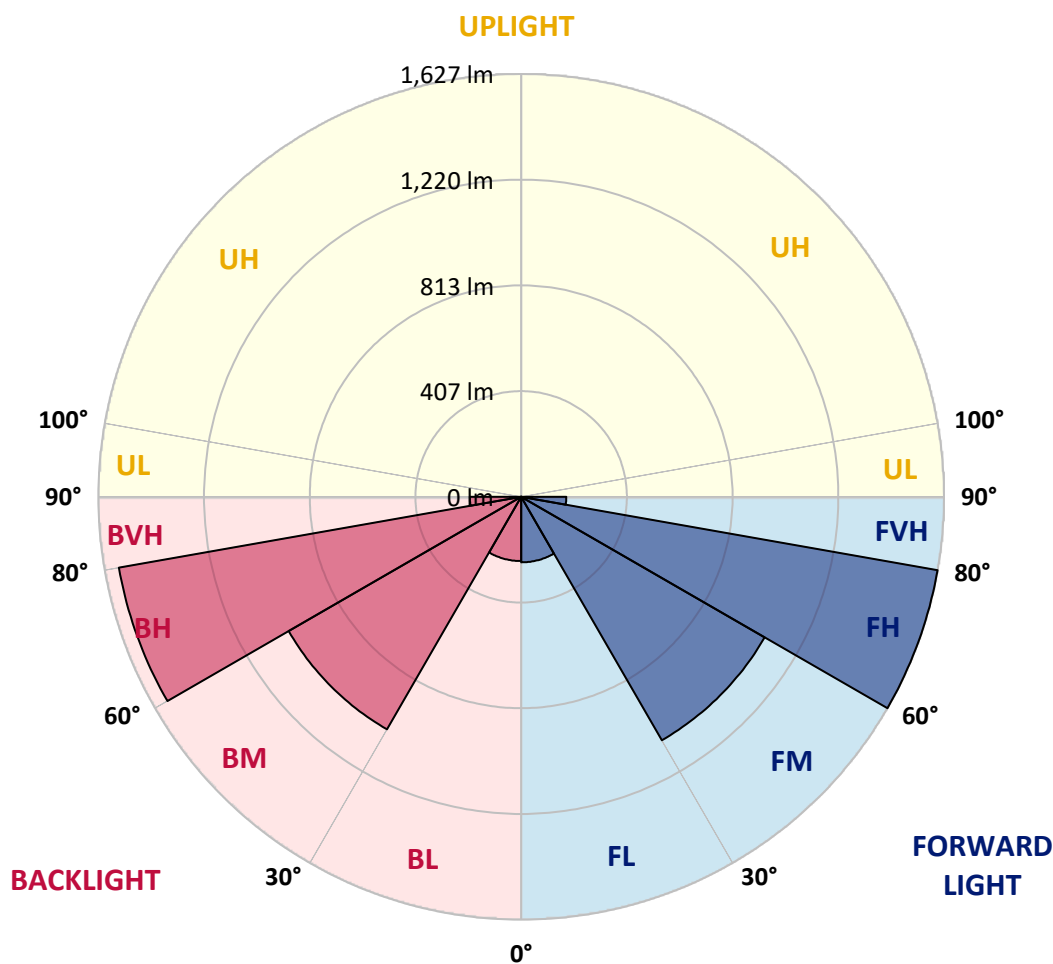
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	252.2	4.1			
FM	(30°-60°)	1081.6	17.5			
FH	(60°-80°)	1626.9	26.3			G1/1800
FVH	(80°-90°)	173.8	2.8			G2/225
BL	(0°-30°)	247.2	4.0	B1/500		
BM	(30°-60°)	1033.0	16.7	B2/2500		
BH	(60°-80°)	1571.7	25.4	B3/2500		G1/1800
BVH	(80°-90°)	197.8	3.2			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°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
2.5°	588.8	588.8	587.2	586.4	586.4	586.0	585.6	585.6	585.2	585.6	584.4
5°	589.6	589.6	588.0	587.2	586.8	586.4	586.4	585.6	585.2	585.6	584.4
7.5°	589.6	590.0	589.2	588.4	587.2	586.8	586.4	585.2	585.2	584.4	584.0
10°	591.2	592.4	590.8	589.6	588.0	587.2	586.0	585.2	584.8	584.0	584.0
12.5°	592.4	593.6	592.0	590.8	589.2	588.0	586.4	585.2	584.4	583.2	583.6
15°	594.0	595.2	593.6	592.0	590.4	588.8	587.2	585.6	584.4	583.6	583.6
17.5°	594.8	596.0	594.4	592.8	591.6	590.8	588.8	586.4	584.8	584.0	584.0
20°	596.0	597.2	596.0	595.2	594.0	593.6	591.6	588.8	586.8	585.6	585.2
22.5°	598.8	599.6	599.2	599.2	599.2	598.8	597.2	592.8	590.4	588.4	588.0
25°	605.6	605.2	606.0	606.8	607.2	608.0	605.6	600.8	597.6	594.4	594.0
27.5°	616.8	617.2	617.6	619.2	620.8	621.2	618.8	613.6	608.8	604.4	604.0
30°	629.6	629.6	631.2	634.4	636.0	637.2	634.8	628.4	622.4	618.0	617.2
32.5°	648.0	649.6	650.4	654.0	657.2	658.4	654.8	648.0	641.2	635.6	634.4
35°	674.4	676.8	677.6	680.8	684.4	684.8	681.6	674.0	666.8	659.2	659.6
37.5°	711.6	712.0	714.0	714.8	721.6	721.6	716.4	709.6	702.4	695.6	693.6
40°	761.2	761.6	762.4	761.2	769.2	771.6	764.8	754.4	747.6	738.8	737.6
42.5°	815.2	819.2	818.8	816.8	824.8	830.0	821.6	809.6	802.4	793.2	791.6
45°	882.0	881.2	877.6	882.0	891.2	896.8	886.4	871.2	863.6	852.0	851.6
47.5°	946.8	946.0	940.4	943.6	960.8	970.0	954.8	937.6	927.6	920.8	915.6
50°	1008.4	1014.0	1006.8	1013.6	1036.0	1048.4	1034.4	1007.2	995.2	984.8	982.0
52.5°	1080.8	1084.0	1077.6	1088.4	1113.2	1131.2	1112.0	1076.8	1064.8	1053.2	1049.6
55°	1154.8	1153.2	1150.0	1162.0	1192.4	1213.6	1192.8	1150.4	1132.8	1124.0	1124.0
57.5°	1227.6	1228.4	1220.8	1235.2	1273.6	1301.6	1275.6	1223.6	1202.0	1192.0	1195.2
60°	1305.6	1305.6	1294.0	1307.2	1360.8	1396.4	1357.2	1297.6	1274.0	1268.0	1268.4
62.5°	1393.2	1390.0	1377.2	1393.6	1458.8	1506.0	1456.8	1382.4	1351.6	1351.6	1354.4
65°	1494.4	1489.2	1484.8	1503.6	1588.0	1645.6	1580.8	1486.8	1459.6	1456.4	1461.6
67.5°	1640.0	1645.6	1634.4	1659.2	1774.4	1849.6	1751.2	1630.0	1601.2	1598.4	1611.2
70°	1771.2	1765.6	1780.0	1850.0	2006.8	2111.6	1974.8	1788.4	1706.0	1689.2	1694.4
72°	1660.8	1665.2	1689.6	1811.2	2043.6	2197.6	2020.0	1766.4	1645.6	1628.0	1627.6
72.5°	1635.2	1638.4	1659.2	1776.0	2017.2	2174.8	1997.2	1738.4	1624.4	1609.2	1608.4
75°	1500.8	1507.2	1540.0	1653.6	1898.4	2046.8	1880.0	1638.0	1512.8	1484.0	1490.0
77.5°	1278.4	1291.6	1324.8	1455.6	1742.8	1908.8	1730.4	1452.0	1311.6	1290.4	1283.6
80°	938.0	920.4	980.4	1096.4	1300.8	1529.2	1319.6	1094.0	948.4	909.6	919.2
82.5°	319.2	326.8	421.6	562.8	714.0	892.8	758.0	548.0	403.6	354.8	333.2
85°	38.8	42.0	65.6	119.6	224.8	324.8	229.6	121.6	75.6	46.4	40.8
87.5°	18.8	20.0	28.0	30.0	37.2	31.6	37.6	24.0	22.8	14.0	11.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
2.5°	584.0	583.2	582.8	582.0	581.2	581.2	581.2	581.2	581.2	581.6
5°	584.0	583.2	582.8	581.6	580.8	580.8	580.4	580.8	580.4	580.8
7.5°	584.0	582.8	581.6	580.4	579.6	580.0	579.2	578.8	579.2	579.2
10°	583.6	581.6	580.0	578.8	578.4	578.0	578.0	577.6	578.4	578.0
12.5°	583.2	580.8	578.8	577.2	576.8	576.8	576.8	576.8	578.0	577.6
15°	582.8	580.4	578.4	576.4	576.0	576.8	576.8	577.6	578.4	578.4
17.5°	583.2	580.4	578.0	576.4	576.4	577.2	577.6	578.8	580.0	579.2
20°	584.8	581.6	579.6	578.0	578.8	579.6	579.6	580.4	581.6	580.8
22.5°	587.2	584.8	583.2	582.8	584.0	584.4	584.0	583.6	584.0	583.2
25°	592.8	590.4	589.2	590.8	592.0	591.6	590.0	588.4	587.6	587.2
27.5°	603.2	601.2	600.8	602.8	604.0	602.0	599.2	596.8	596.0	594.8
30°	616.0	614.8	616.0	618.0	618.4	615.2	611.2	607.6	606.4	606.4
32.5°	632.8	631.6	634.4	637.6	638.4	634.0	627.6	622.8	619.6	619.2
35°	657.2	656.4	657.2	661.2	660.8	656.4	649.2	643.6	640.4	640.4
37.5°	691.2	690.4	688.4	692.4	692.0	686.0	678.4	673.6	670.0	670.4
40°	735.6	734.4	732.0	732.8	736.0	728.0	718.4	712.0	711.6	711.6
42.5°	788.8	783.2	784.0	788.8	786.4	776.8	768.0	762.4	762.4	762.0
45°	846.8	844.8	844.0	845.6	847.6	840.0	825.2	818.8	818.4	818.4
47.5°	914.0	904.0	906.0	910.0	914.8	905.2	886.4	878.8	877.6	878.0
50°	979.6	969.2	971.2	979.6	988.8	973.6	950.4	941.2	939.6	940.4
52.5°	1047.6	1038.8	1038.8	1052.8	1064.8	1046.0	1016.8	1005.6	1005.6	1005.2
55°	1119.6	1107.6	1112.4	1130.4	1144.8	1122.0	1086.0	1077.2	1070.4	1073.2
57.5°	1191.2	1179.2	1183.2	1210.8	1228.8	1201.6	1156.4	1138.0	1134.0	1133.2
60°	1264.4	1250.8	1255.6	1298.8	1320.0	1284.0	1217.6	1195.2	1191.6	1191.2
62.5°	1345.6	1336.0	1343.2	1393.2	1417.6	1366.4	1282.8	1257.2	1258.4	1255.6
65°	1446.8	1439.2	1451.6	1512.8	1542.8	1467.6	1367.2	1337.6	1341.2	1340.8
67.5°	1591.6	1582.4	1590.0	1675.6	1702.4	1606.0	1484.4	1455.2	1460.8	1470.0
70°	1682.4	1689.2	1757.6	1877.6	1951.2	1852.8	1692.0	1637.2	1640.0	1641.2
72°	1625.6	1642.8	1744.4	1923.6	2071.2	1931.2	1712.4	1615.2	1600.8	1602.4
72.5°	1610.4	1623.6	1725.6	1904.4	2061.2	1914.4	1690.4	1598.4	1575.2	1576.0
75°	1496.0	1521.2	1619.2	1805.2	1973.2	1830.0	1605.6	1507.6	1489.6	1489.6
77.5°	1298.8	1334.0	1434.4	1695.6	1897.2	1741.2	1498.0	1376.8	1358.4	1351.6
80°	955.6	1007.2	1106.0	1364.0	1581.6	1439.2	1233.2	1108.4	1079.6	1069.2
82.5°	376.4	420.8	586.8	821.6	1042.4	887.2	670.8	559.6	470.4	460.8
85°	46.8	75.6	148.0	270.8	414.0	294.4	175.6	92.0	49.6	41.6
87.5°	13.6	25.6	28.0	45.6	54.0	49.6	31.2	28.0	15.6	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)