

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: P1211561

Luminaire Tested: **ARCH4-40-750-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-40-750-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7771 lumens
Efficiency: N/A
Efficacy: 177.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 43.8
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: 24 FT

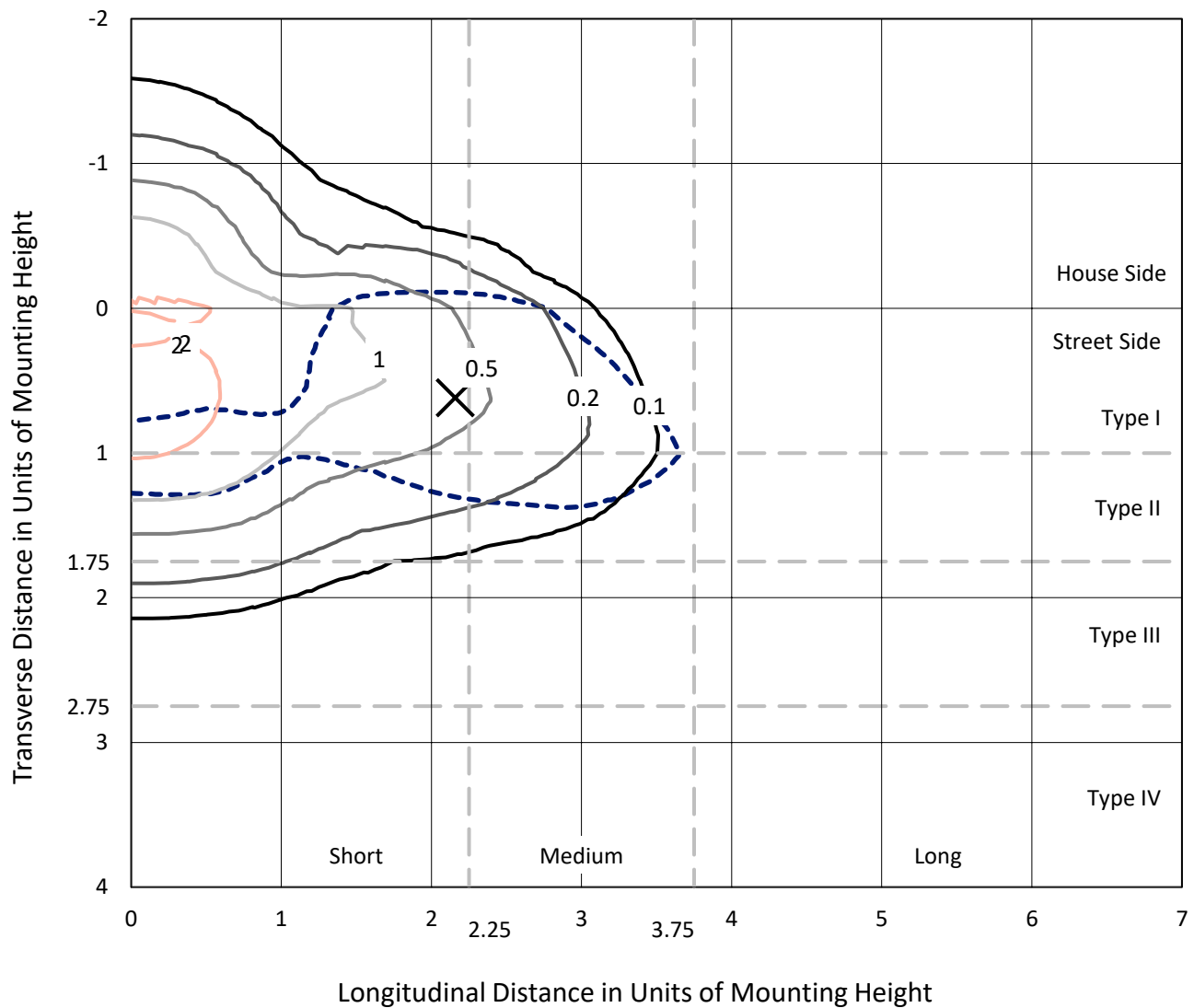


REPORT NUMBER: P1211561

CATALOG NUMBER: ARCH4-40-750-U-T2RE

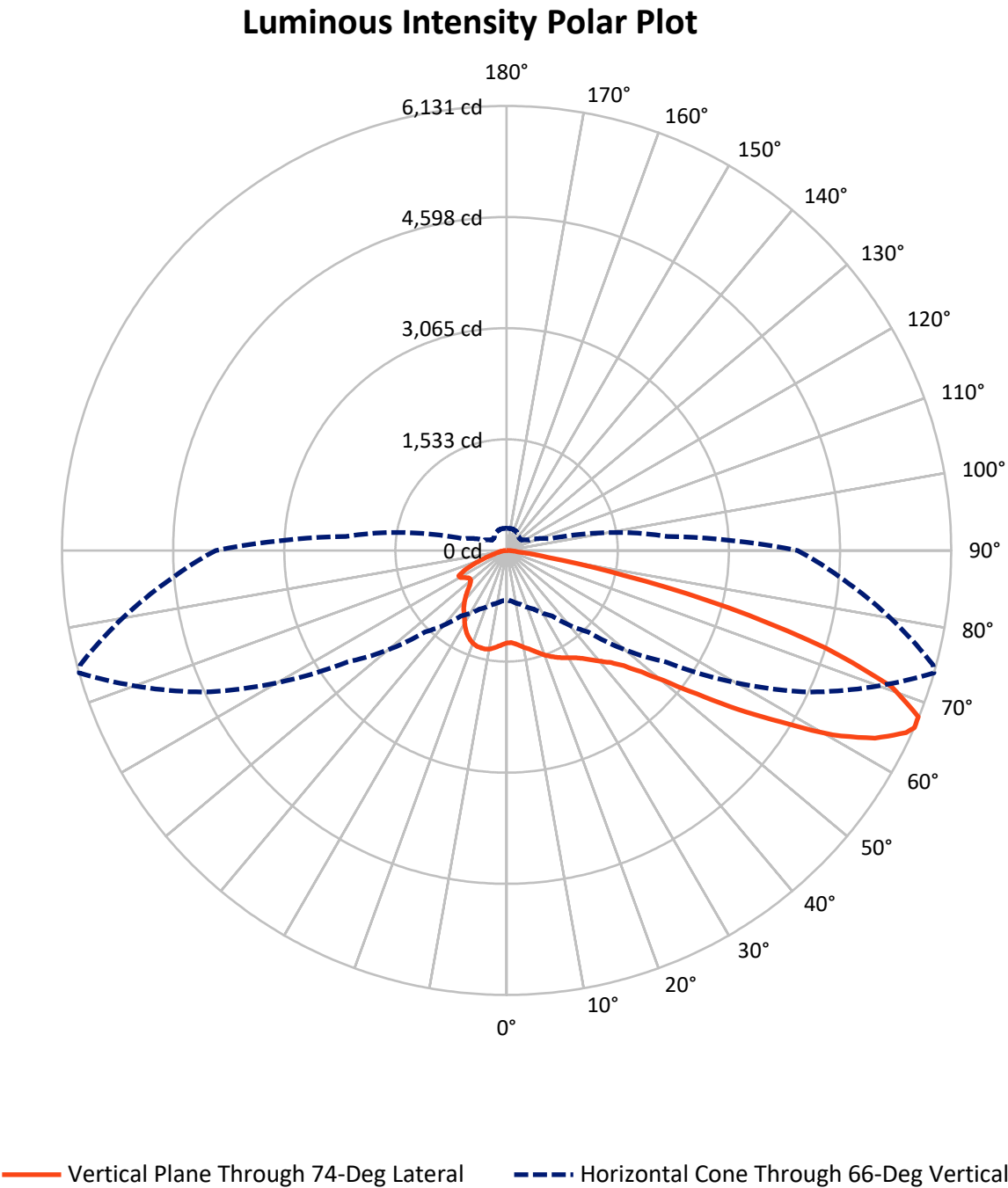
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type II - Short - N/A

REPORT NUMBER: P1211561
CATALOG NUMBER: ARCH4-40-750-U-T2RE



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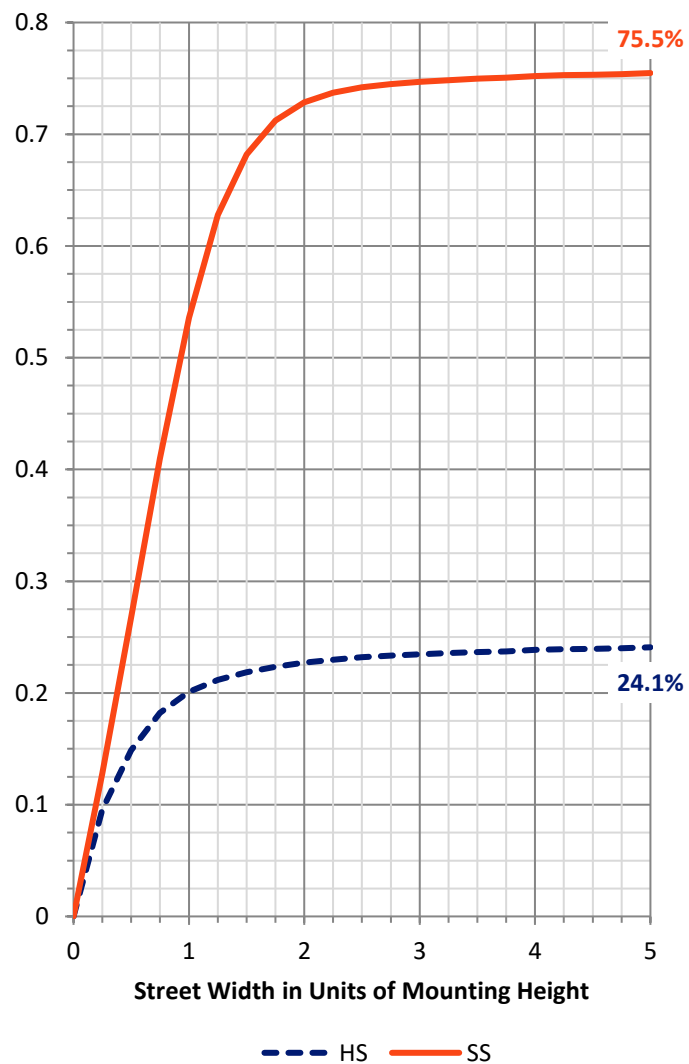
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1892.5	0.0	1892.5
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	5878.6	0.0	5878.6
	% Fixture	75.6	0.0	75.6
Total	Lumens	7771.0	0.0	7771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	1.6
10°-20°	373.7	4.8
20°-30°	701.2	9.0
30°-40°	1078.7	13.9
40°-50°	1451.0	18.7
50°-60°	1715.9	22.1
60°-70°	1587.3	20.4
70°-80°	667.8	8.6
80°-90°	73.9	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°	7771.0	100.0
0°-180°	7771.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211561

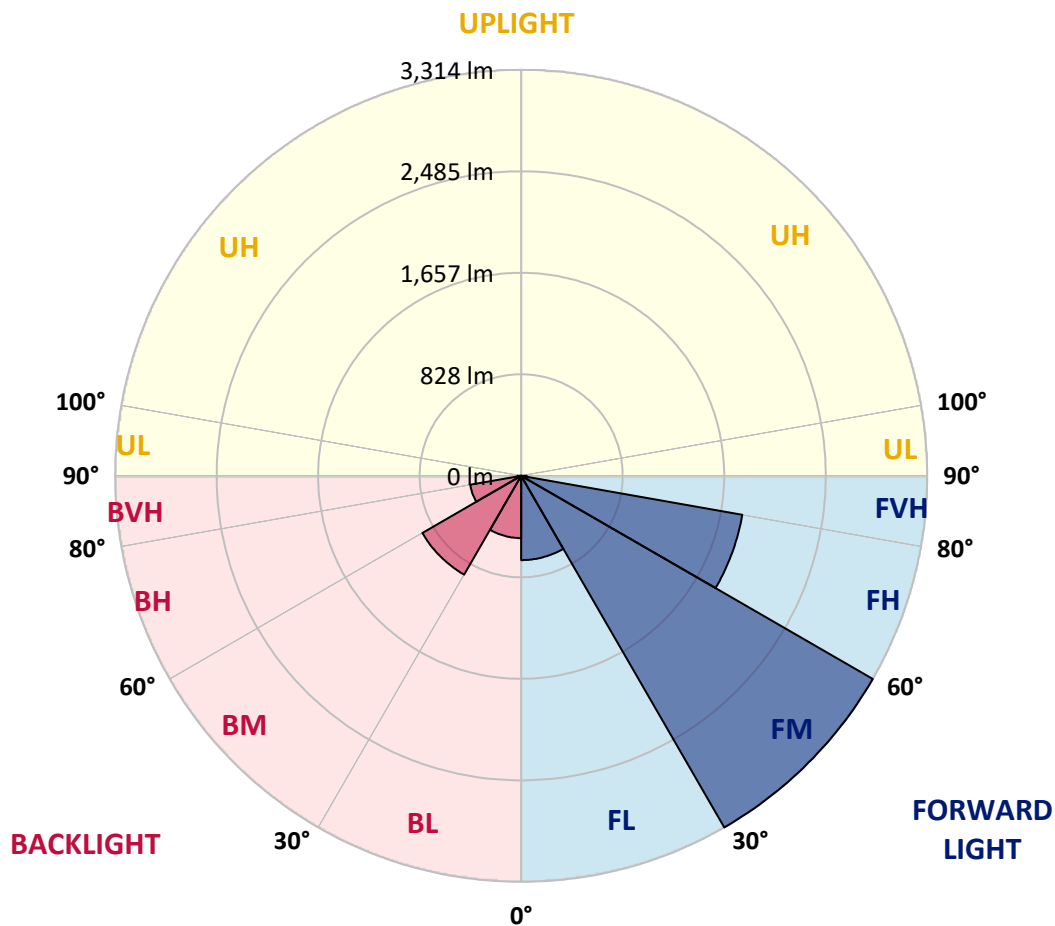
CATALOG NUMBER: ARCH4-40-750-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	687.8	8.9			
FM	(30°-60°)	3313.9	42.6			
FH	(60°-80°)	1832.6	23.6			G2/5000
FVH	(80°-90°)	44.2	0.6			G1/100
BL	(0°-30°)	508.6	6.5	B2/1000		
BM	(30°-60°)	931.7	12.0	B1/1000		
BH	(60°-80°)	422.5	5.4	B1/500		G1/500
BVH	(80°-90°)	29.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P1211561

CATALOG NUMBER: ARCH4-40-750-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1273.9	1273.9	1273.9	1273.9	1273.9	1273.9	1273.9	1273.9	1273.9	1273.9	1273.9
2.5°	1269.9	1267.9	1271.9	1277.9	1280.9	1275.9	1273.9	1272.9	1272.9	1269.9	1274.9
5°	1209.9	1208.9	1217.9	1228.9	1249.9	1264.9	1284.9	1296.9	1292.9	1286.9	1290.9
7.5°	1131.9	1129.9	1140.9	1161.9	1190.9	1223.9	1272.9	1310.9	1325.9	1323.9	1322.9
10°	1161.9	1159.9	1158.9	1152.9	1162.9	1194.9	1245.9	1312.9	1363.9	1364.9	1365.9
12.5°	1265.9	1270.9	1265.9	1246.9	1224.9	1212.9	1242.9	1317.9	1395.9	1401.9	1426.9
15°	1407.9	1402.9	1392.9	1370.9	1336.9	1300.9	1278.9	1340.9	1441.9	1446.9	1501.9
17.5°	1532.9	1536.9	1530.9	1509.9	1469.9	1422.9	1355.9	1380.9	1490.9	1504.9	1581.9
20°	1668.9	1684.9	1676.9	1650.9	1617.9	1547.9	1463.9	1438.9	1544.9	1554.9	1664.9
22.5°	1825.9	1842.9	1827.9	1802.9	1775.9	1689.9	1581.9	1509.9	1589.9	1610.9	1744.9
25°	2013.9	2029.9	2015.9	1976.9	1942.9	1837.9	1708.9	1589.9	1633.9	1656.9	1809.9
27.5°	2162.9	2174.9	2187.9	2164.9	2112.9	2003.9	1840.9	1672.9	1677.9	1701.9	1869.9
30°	2295.9	2325.9	2336.9	2339.9	2295.9	2173.9	1975.9	1758.9	1715.9	1740.9	1929.9
32.5°	2477.9	2522.9	2504.9	2522.9	2496.9	2333.9	2115.9	1847.9	1764.9	1787.9	1986.9
35°	2743.8	2779.8	2732.8	2718.8	2676.8	2495.9	2250.9	1939.9	1829.9	1854.9	2040.9
37.5°	3029.8	3070.8	3002.8	2946.8	2866.8	2655.8	2366.9	2060.9	1919.9	1939.9	2090.9
40°	3279.8	3313.8	3254.8	3180.8	3046.8	2796.8	2466.9	2145.9	2009.9	2034.9	2148.9
42.5°	3510.8	3532.8	3466.8	3395.8	3216.8	2923.8	2574.8	2235.9	2114.9	2138.9	2195.9
45°	3744.8	3761.8	3669.8	3568.8	3358.8	3039.8	2693.8	2361.9	2268.9	2300.9	2271.9
47.5°	3786.8	3791.8	3775.8	3707.8	3470.8	3150.8	2840.8	2530.9	2503.9	2538.9	2402.9
50°	3495.8	3540.8	3639.8	3706.8	3515.8	3243.8	2987.8	2772.8	2827.8	2872.8	2674.8
52.5°	2930.8	2973.8	3202.8	3456.8	3407.8	3264.8	3145.8	3079.8	3284.8	3338.8	3044.8
55°	2334.9	2372.9	2614.8	2980.8	3058.8	3168.8	3314.8	3471.8	3867.8	3903.8	3450.8
57.5°	1922.9	1943.9	2116.9	2468.9	2593.8	2861.8	3405.8	3937.8	4460.7	4515.7	3803.8
60°	1576.9	1599.9	1728.9	2018.9	2184.9	2422.9	3333.8	4397.7	5168.7	5168.7	4256.8
62.5°	1186.9	1206.9	1326.9	1553.9	1832.9	2050.9	3103.8	4702.7	5702.7	5678.7	4584.7
65°	815.0	831.0	917.9	1068.9	1319.9	1747.9	2789.8	4706.7	6056.6	6024.6	4724.7
66°	684.0	698.0	772.0	893.9	1104.9	1585.9	2678.8	4621.7	6130.6	6085.6	4665.7
67.5°	540.0	550.0	599.0	671.0	810.0	1283.9	2503.9	4380.7	6123.6	6096.6	4515.7
70°	386.0	393.0	429.0	444.0	479.0	743.0	1988.9	3836.8	5632.7	5640.7	3925.8
72.5°	299.0	310.0	332.0	335.0	327.0	395.0	1206.9	3200.8	4607.7	4604.7	2913.8
75°	241.0	247.0	258.0	264.0	262.0	255.0	511.0	2387.9	3171.8	3208.8	1631.9
77.5°	190.0	189.0	199.0	207.0	213.0	200.0	234.0	1399.9	1662.9	1615.9	613.0
80°	140.0	140.0	154.0	157.0	166.0	168.0	156.0	540.0	571.0	519.0	159.0
82.5°	92.0	92.0	107.0	109.0	118.0	131.0	113.0	162.0	158.0	150.0	72.0
85°	50.0	48.0	53.0	60.0	65.0	77.0	68.0	81.0	83.0	82.0	48.0
87.5°	10.0	9.0	14.0	16.0	18.0	24.0	22.0	33.0	46.0	45.0	21.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1211561

CATALOG NUMBER: ARCH4-40-750-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1273.9	1273.9	1273.9	1273.9	1273.9	1273.9	1273.9	1273.9	1273.9	1273.9	1273.9
2.5°	1281.9	1280.9	1291.9	1304.9	1319.9	1328.9	1332.9	1339.9	1334.9	1336.9	1342.9
5°	1300.9	1303.9	1319.9	1336.9	1343.9	1338.9	1327.9	1323.9	1314.9	1312.9	1310.9
7.5°	1328.9	1333.9	1349.9	1353.9	1332.9	1297.9	1272.9	1258.9	1243.9	1239.9	1237.9
10°	1374.9	1377.9	1381.9	1340.9	1288.9	1241.9	1210.9	1197.9	1187.9	1179.9	1181.9
12.5°	1432.9	1430.9	1399.9	1314.9	1240.9	1192.9	1171.9	1163.9	1156.9	1151.9	1150.9
15°	1505.9	1491.9	1402.9	1278.9	1195.9	1155.9	1140.9	1137.9	1129.9	1129.9	1128.9
17.5°	1579.9	1543.9	1400.9	1240.9	1152.9	1130.9	1121.9	1119.9	1117.9	1116.9	1119.9
20°	1653.9	1589.9	1384.9	1193.9	1122.9	1109.9	1107.9	1108.9	1106.9	1109.9	1107.9
22.5°	1718.9	1619.9	1354.9	1143.9	1101.9	1100.9	1095.9	1097.9	1104.9	1105.9	1108.9
25°	1768.9	1630.9	1310.9	1097.9	1086.9	1084.9	1090.9	1098.9	1104.9	1105.9	1110.9
27.5°	1809.9	1624.9	1255.9	1061.9	1060.9	1071.9	1089.9	1092.9	1093.9	1093.9	1089.9
30°	1840.9	1611.9	1185.9	1021.9	1026.9	1053.9	1070.9	1070.9	1062.9	1060.9	1066.9
32.5°	1847.9	1594.9	1109.9	980.9	988.9	1020.9	1041.9	1034.9	1025.9	1025.9	1029.9
35°	1853.9	1571.9	1048.9	924.9	936.9	974.9	994.9	980.9	970.9	967.9	966.9
37.5°	1851.9	1562.9	993.9	853.9	869.9	906.9	919.9	906.9	891.9	884.9	893.9
40°	1853.9	1556.9	924.9	776.0	792.0	814.0	831.0	821.0	807.0	789.0	798.0
42.5°	1865.9	1564.9	849.0	700.0	700.0	712.0	741.0	734.0	700.0	693.0	701.0
45°	1929.9	1607.9	773.0	624.0	613.0	621.0	651.0	621.0	600.0	600.0	607.0
47.5°	2084.9	1687.9	706.0	557.0	531.0	547.0	555.0	527.0	511.0	507.0	514.0
50°	2400.9	1847.9	666.0	502.0	470.0	482.0	477.0	476.0	460.0	462.0	466.0
52.5°	2880.8	2159.9	654.0	475.0	435.0	438.0	433.0	435.0	432.0	442.0	445.0
55°	3403.8	2488.9	669.0	479.0	411.0	390.0	392.0	402.0	414.0	430.0	433.0
57.5°	3794.8	2653.8	708.0	506.0	381.0	349.0	354.0	373.0	396.0	409.0	416.0
60°	4085.8	2633.8	765.0	513.0	345.0	312.0	321.0	349.0	369.0	380.0	387.0
62.5°	4180.8	2508.9	779.0	462.0	298.0	277.0	299.0	328.0	337.0	349.0	354.0
65°	4102.8	2331.9	677.0	375.0	262.0	251.0	283.0	305.0	317.0	323.0	324.0
66°	4010.8	2225.9	622.0	341.0	249.0	243.0	277.0	295.0	307.0	306.0	307.0
67.5°	3808.8	2003.9	533.0	293.0	230.0	231.0	267.0	279.0	283.0	280.0	280.0
70°	3121.8	1410.9	382.0	222.0	202.0	216.0	240.0	243.0	252.0	248.0	248.0
72.5°	1924.9	693.0	256.0	170.0	180.0	202.0	201.0	211.0	232.0	238.0	242.0
75°	945.9	281.0	169.0	144.0	161.0	169.0	167.0	192.0	222.0	248.0	257.0
77.5°	359.0	140.0	118.0	126.0	130.0	127.0	133.0	174.0	222.0	269.0	278.0
80°	111.0	97.0	93.0	104.0	98.0	93.0	100.0	144.0	188.0	204.0	204.0
82.5°	67.0	76.0	72.0	71.0	66.0	67.0	72.0	103.0	145.0	152.0	152.0
85°	47.0	50.0	41.0	39.0	38.0	37.0	37.0	60.0	86.0	85.0	88.0
87.5°	18.0	20.0	15.0	15.0	14.0	10.0	8.0	10.0	10.0	7.0	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)