

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: P348609

Luminaire Tested: **ARCH-N-PA1-60-750-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348609  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-N-PA1-60-750-U-T3  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7632 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 62  
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

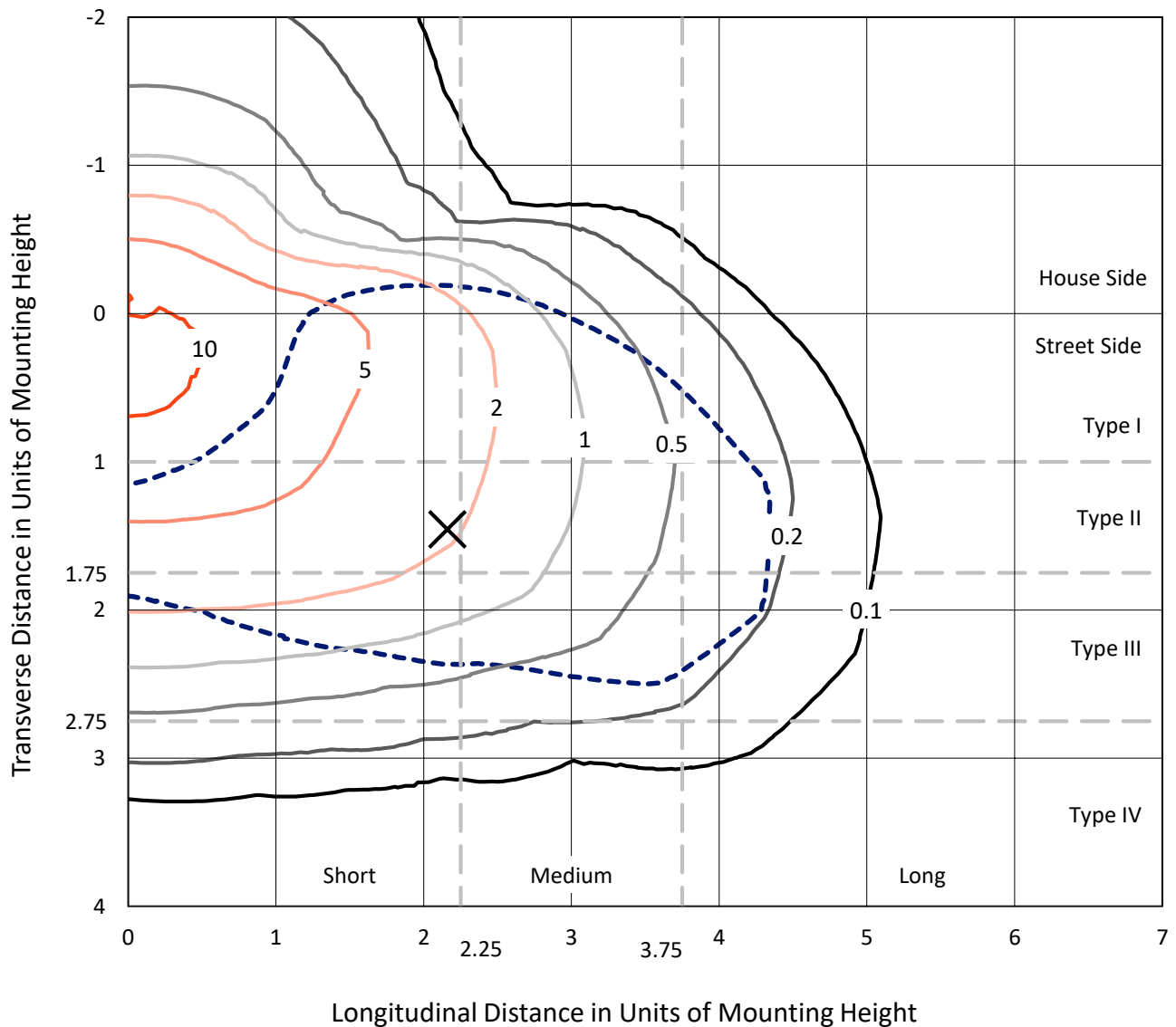


REPORT NUMBER: P348609

CATALOG NUMBER: ARCH-N-PA1-60-750-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

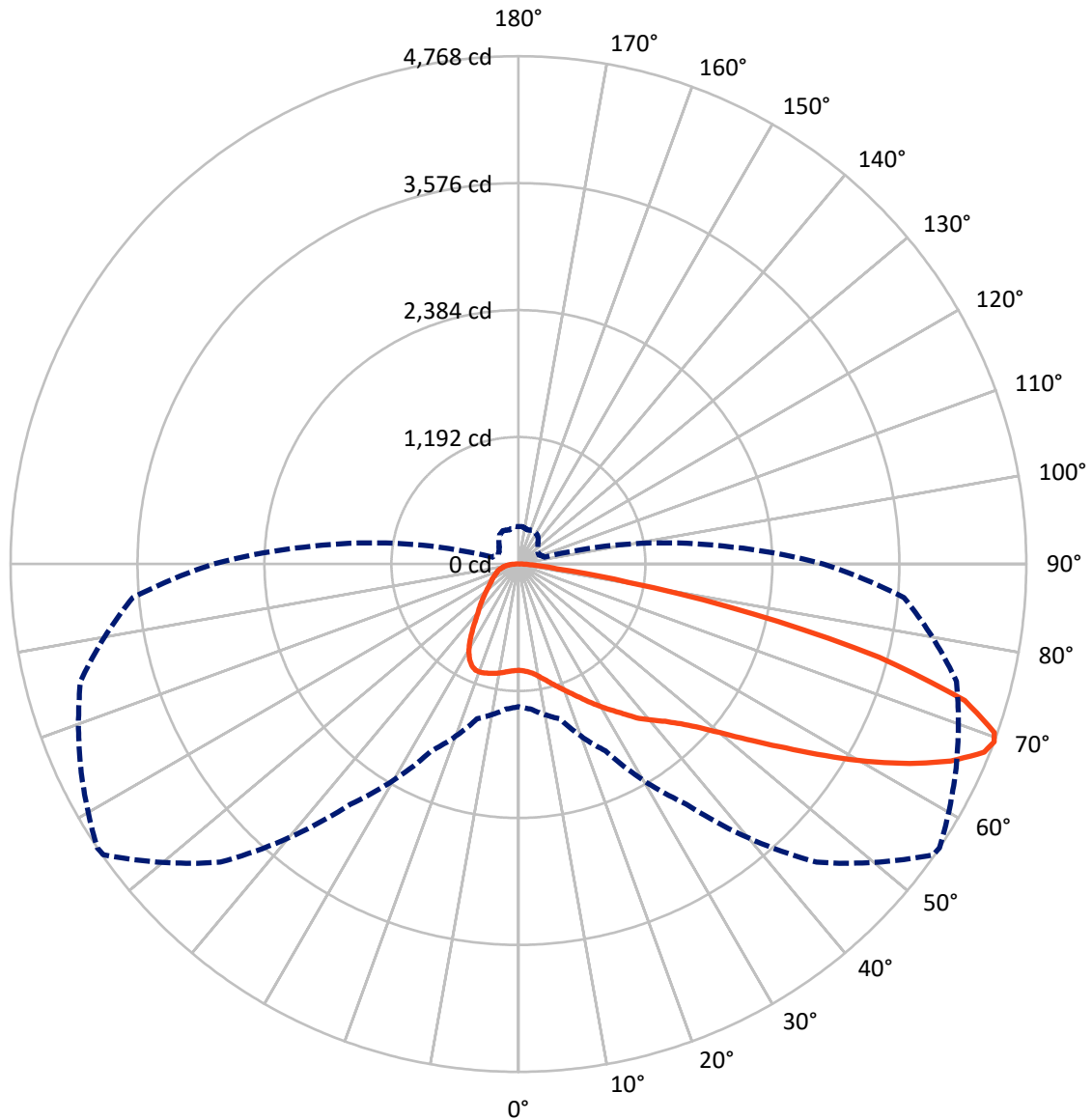


Based on 10 foot mounting height. Maximum calculated value = 10.9 fc  
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P348609

CATALOG NUMBER: ARCH-N-PA1-60-750-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P348609

CATALOG NUMBER: ARCH-N-PA1-60-750-U-T3

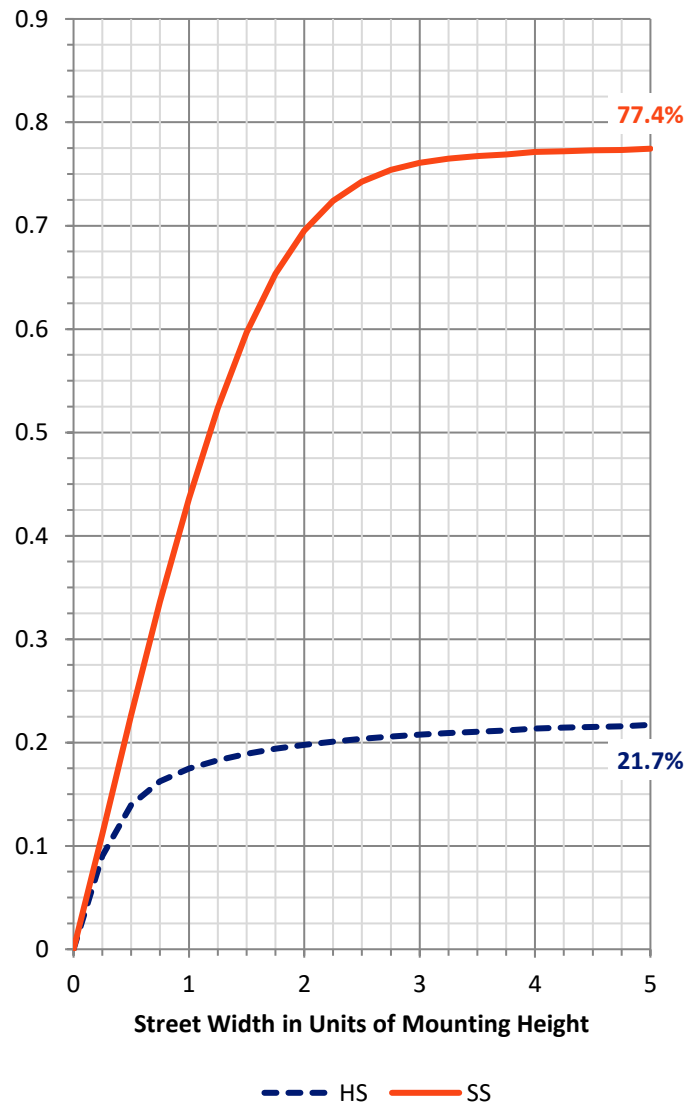
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1699.6	0.0	1699.6
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	5932.4	0.0	5932.4
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	7632.0	0.0	7632.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.0	1.3
10°-20°	315.1	4.1
20°-30°	550.1	7.2
30°-40°	790.2	10.4
40°-50°	1093.5	14.3
50°-60°	1602.2	21.0
60°-70°	1953.4	25.6
70°-80°	1080.0	14.2
80°-90°	149.6	2.0
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°	7632.0	100.0
0°-180°	7632.0	100.0



REPORT NUMBER: P348609

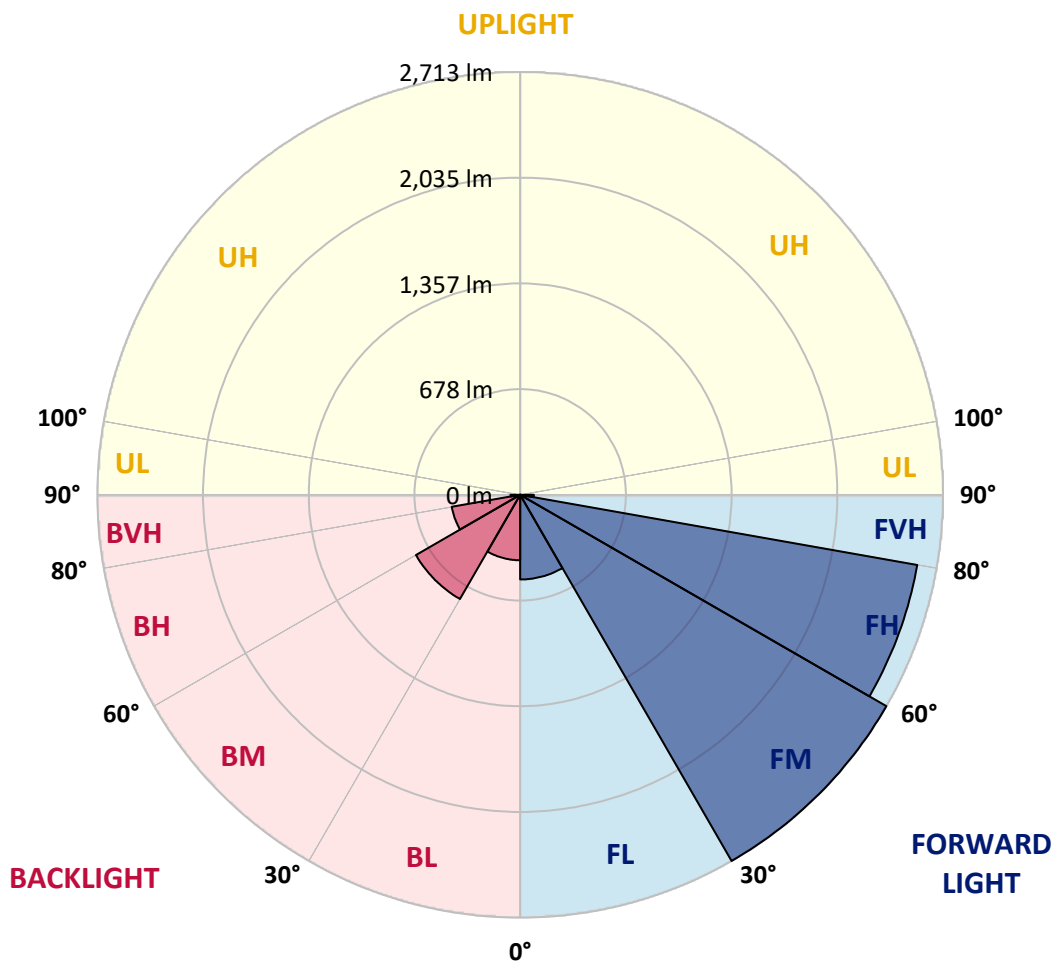
CATALOG NUMBER: ARCH-N-PA1-60-750-U-T3

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	543.2	7.1			
FM	(30°-60°)	2713.5	35.6			
FH	(60°-80°)	2587.6	33.9			G2/5000
FVH	(80°-90°)	88.1	1.2			G1/100
BL	(0°-30°)	420.0	5.5	B1/500		
BM	(30°-60°)	772.4	10.1	B1/1000		
BH	(60°-80°)	445.7	5.8	B1/500		G1/500
BVH	(80°-90°)	61.5	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8
2.5°	1004.1	1005.1	1004.3	1006.4	1004.1	1005.7	1004.3	1004.3	1003.6	1001.2	998.6
5°	1019.9	1022.0	1020.6	1022.7	1019.9	1020.4	1018.0	1018.0	1015.6	1010.7	1005.4
7.5°	1044.6	1046.9	1045.9	1048.0	1044.0	1044.0	1040.9	1040.6	1035.9	1027.7	1021.7
10°	1074.0	1077.2	1076.1	1079.3	1076.1	1077.2	1074.0	1074.0	1067.7	1056.1	1048.5
12.5°	1116.9	1120.8	1117.9	1117.7	1116.3	1118.4	1115.8	1115.3	1109.5	1093.7	1083.2
15°	1174.2	1178.4	1172.3	1171.8	1164.5	1163.7	1163.7	1162.9	1159.2	1140.3	1122.9
17.5°	1240.2	1241.5	1236.2	1227.8	1218.4	1212.3	1211.5	1213.6	1213.6	1191.5	1163.9
20°	1304.9	1307.2	1303.0	1293.6	1281.5	1272.5	1266.2	1270.4	1270.2	1243.9	1204.7
22.5°	1375.3	1380.8	1374.5	1362.4	1348.2	1338.2	1327.2	1330.9	1331.1	1298.8	1244.6
25°	1466.5	1461.6	1457.6	1440.5	1420.3	1410.0	1399.8	1403.4	1402.4	1358.0	1285.9
27.5°	1547.3	1548.3	1543.1	1524.9	1501.5	1478.9	1478.4	1480.7	1476.8	1419.5	1324.8
30°	1641.1	1641.7	1634.3	1618.0	1592.5	1563.3	1556.5	1560.4	1552.0	1477.9	1365.9
32.5°	1734.5	1737.1	1728.9	1709.2	1688.7	1653.2	1639.5	1642.2	1621.1	1537.5	1408.2
35°	1816.2	1819.9	1817.3	1804.1	1781.8	1751.3	1735.0	1733.4	1707.4	1610.6	1464.2
37.5°	1899.6	1903.0	1900.1	1889.1	1880.1	1847.8	1839.1	1839.1	1793.9	1685.3	1535.4
40°	1985.3	1990.5	1987.1	1971.9	1964.3	1949.5	1928.8	1923.8	1874.9	1775.0	1651.6
42.5°	2064.9	2071.8	2085.5	2076.5	2061.0	2063.1	2021.3	2018.7	1982.9	1907.5	1797.6
45°	2178.0	2188.0	2211.1	2204.3	2201.1	2189.6	2139.9	2137.5	2123.8	2085.7	1978.7
47.5°	2301.3	2315.0	2356.8	2358.1	2392.0	2370.2	2302.6	2294.5	2297.6	2299.2	2199.8
50°	2414.9	2429.9	2498.5	2530.8	2610.8	2615.5	2507.4	2500.1	2512.4	2548.7	2457.5
52.5°	2505.6	2524.5	2610.2	2710.1	2847.1	2886.0	2759.6	2754.1	2763.3	2825.8	2748.8
55°	2572.1	2592.6	2686.0	2867.9	3086.6	3155.3	3049.8	3044.6	3050.4	3130.0	3065.6
57.5°	2587.6	2592.6	2728.0	2974.1	3288.8	3453.7	3405.0	3394.5	3366.1	3435.5	3415.3
60°	2514.8	2534.8	2693.3	3011.4	3445.3	3747.9	3776.3	3763.1	3683.5	3740.3	3724.0
62.5°	2367.0	2402.8	2563.7	2954.7	3506.5	3988.2	4140.4	4124.6	3987.4	4024.2	3945.9
65°	2125.7	2140.9	2310.0	2758.8	3428.7	4142.0	4465.1	4457.2	4284.5	4226.9	3986.9
67.5°	1694.0	1722.6	1866.2	2349.4	3110.3	4123.8	4716.2	4715.4	4478.5	4302.1	3841.5
69°	1338.2	1368.0	1504.7	1935.3	2752.2	3957.9	4758.3	4767.5	4533.2	4256.4	3633.8
70°	1066.9	1101.4	1195.2	1630.1	2434.3	3739.2	4723.3	4739.9	4522.7	4180.9	3442.1
72.5°	454.1	481.9	548.7	840.3	1483.6	2792.2	4318.7	4381.2	4279.0	3826.5	2844.8
75°	198.2	206.9	237.2	342.6	658.6	1519.7	3383.2	3498.9	3658.7	3234.4	2119.1
77.5°	145.1	148.8	165.4	201.1	295.5	573.9	2175.6	2242.9	2638.6	2353.6	1299.9
80°	112.3	114.9	127.8	147.8	193.0	232.2	992.2	1050.1	1483.6	1208.9	541.3
82.5°	89.4	91.2	100.2	108.8	133.3	140.7	329.4	365.5	547.7	333.9	143.3
85°	83.1	85.2	88.3	79.4	85.4	82.6	142.5	149.1	165.4	131.2	59.9
87.5°	37.6	44.4	87.6	61.8	45.5	36.3	58.4	61.0	68.6	68.9	26.6
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: P348609

CATALOG NUMBER: ARCH-N-PA1-60-750-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8
2.5°	1000.1	999.3	1000.7	997.5	1001.4	1001.2	999.9	1000.4	1003.0	1002.8	1003.0
5°	1006.2	1005.7	1007.2	1004.9	1009.6	1011.2	1011.4	1013.8	1016.7	1017.5	1017.5
7.5°	1021.4	1021.4	1022.2	1019.1	1022.2	1022.0	1020.6	1023.0	1025.9	1026.2	1025.9
10°	1047.7	1048.0	1046.7	1038.5	1035.9	1028.8	1022.2	1022.5	1026.2	1029.1	1029.8
12.5°	1080.9	1079.8	1074.0	1059.0	1048.0	1033.5	1026.7	1026.4	1030.1	1032.5	1033.3
15°	1118.7	1115.8	1100.8	1076.4	1056.9	1042.7	1031.7	1029.1	1027.0	1024.3	1024.6
17.5°	1154.5	1147.9	1122.9	1089.0	1068.5	1049.6	1028.3	1011.2	999.3	992.5	990.4
20°	1190.8	1177.9	1141.8	1100.8	1074.8	1040.4	999.3	964.6	943.1	933.1	931.3
22.5°	1223.9	1203.1	1159.5	1113.2	1069.8	1009.3	944.9	894.4	864.5	851.1	852.1
25°	1256.2	1227.3	1177.9	1121.9	1044.6	954.7	869.2	807.2	772.4	757.5	756.9
27.5°	1284.6	1251.7	1197.8	1114.8	997.5	876.8	779.5	719.1	690.2	677.3	675.2
30°	1317.2	1282.5	1224.4	1087.7	928.6	786.9	692.0	649.4	628.9	616.0	613.6
32.5°	1356.9	1324.3	1246.2	1038.5	840.5	693.0	623.6	593.9	575.3	560.8	558.2
35°	1414.8	1379.5	1251.7	968.1	743.8	618.9	573.4	542.9	517.7	499.0	497.2
37.5°	1487.3	1448.7	1239.1	876.8	649.9	570.8	531.6	494.0	461.2	434.9	430.7
40°	1592.0	1533.6	1204.2	771.7	580.8	533.7	490.9	448.0	407.3	376.5	370.4
42.5°	1717.6	1633.2	1150.5	667.0	530.0	496.1	450.4	397.3	358.4	336.5	333.4
45°	1877.5	1736.8	1076.1	575.5	480.1	458.5	406.7	357.8	333.6	317.6	315.0
47.5°	2060.0	1853.0	998.0	501.1	437.8	423.3	371.8	340.2	321.0	308.4	306.0
50°	2284.2	1984.2	915.2	440.1	395.2	381.0	355.2	330.5	315.2	305.5	303.1
52.5°	2537.1	2132.3	855.5	392.0	359.9	349.7	346.5	325.2	312.9	305.5	303.1
55°	2809.5	2282.9	791.1	351.5	329.4	332.3	340.7	325.8	317.3	308.4	305.0
57.5°	3082.2	2438.6	719.3	317.3	305.2	319.4	336.8	326.8	319.7	311.0	307.9
60°	3297.8	2537.1	608.1	288.7	286.1	305.2	327.3	318.9	309.7	310.0	309.5
62.5°	3398.5	2531.9	485.3	263.2	266.9	286.1	312.1	306.6	298.9	309.2	310.0
65°	3341.9	2405.7	377.8	240.0	246.4	266.1	296.3	300.5	303.1	322.9	325.5
67.5°	3104.8	2160.1	292.6	219.8	227.7	252.4	297.9	327.3	330.7	351.5	351.3
69°	2859.5	1929.8	254.2	209.3	218.5	255.8	318.4	344.4	331.5	353.6	350.5
70°	2653.9	1747.6	233.7	202.2	214.3	261.9	332.1	344.2	327.6	346.5	341.3
72.5°	2043.9	1257.3	198.2	189.0	200.1	250.6	336.0	336.5	318.4	322.1	313.1
75°	1401.9	794.5	173.0	171.2	178.5	225.8	323.4	321.5	294.5	289.2	281.8
77.5°	773.0	403.6	147.0	154.1	159.1	200.1	293.9	291.3	269.0	257.9	255.3
80°	298.1	176.7	124.1	137.0	140.1	173.3	257.7	255.3	236.6	222.4	218.5
82.5°	112.5	92.5	102.5	118.6	117.5	143.0	218.2	216.9	198.8	178.0	171.7
85°	52.1	55.5	81.2	97.8	90.2	106.0	174.6	176.9	154.9	130.1	130.1
87.5°	22.1	31.0	57.6	73.9	60.7	71.5	128.0	122.3	112.3	77.8	73.1
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)