

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: P799378

Luminaire Tested: **ARCH2-110-730-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-110-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9313 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 109.5
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: 24 FT

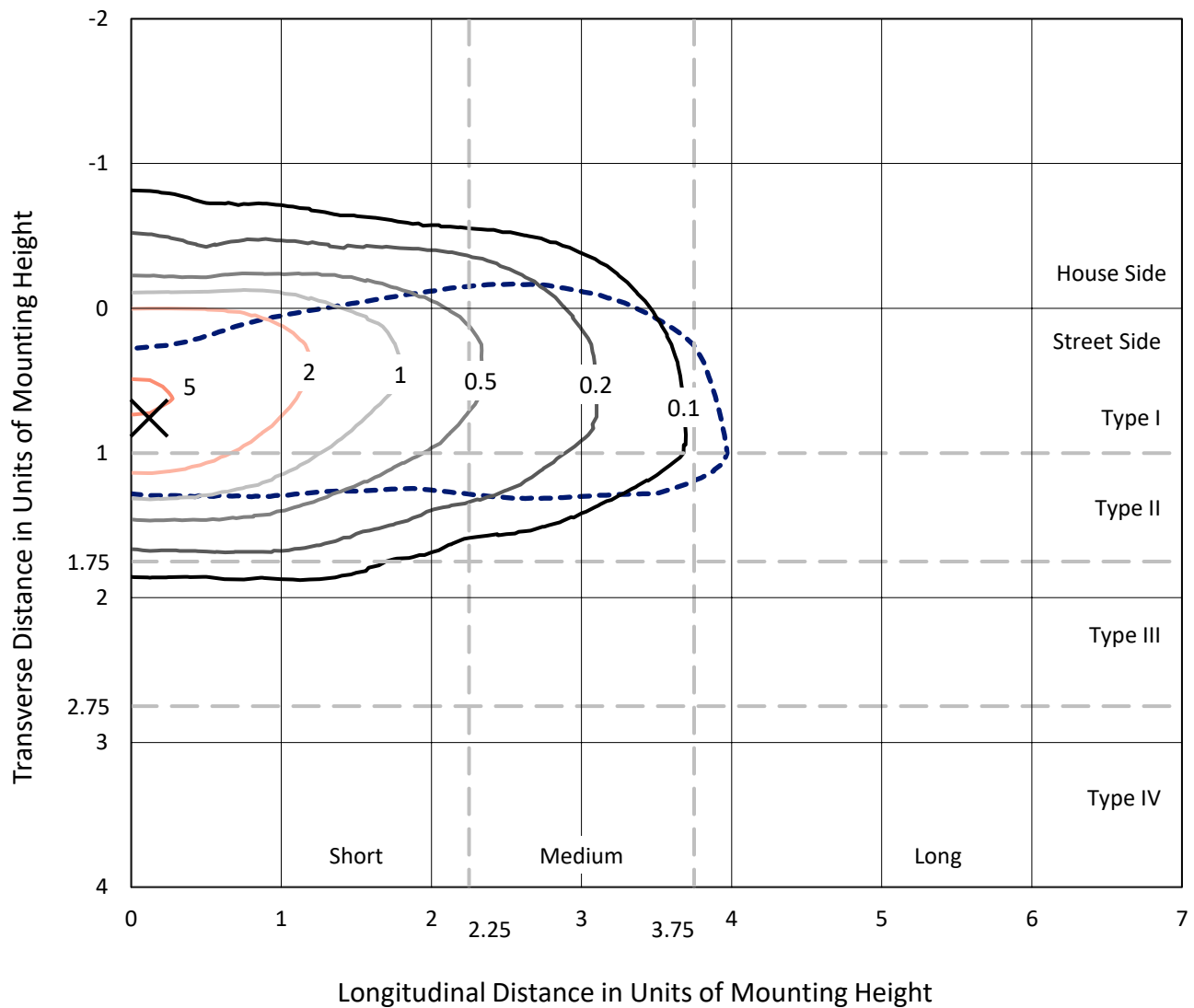


REPORT NUMBER: P799378

CATALOG NUMBER: ARCH2-110-730-U-T2R-HSS

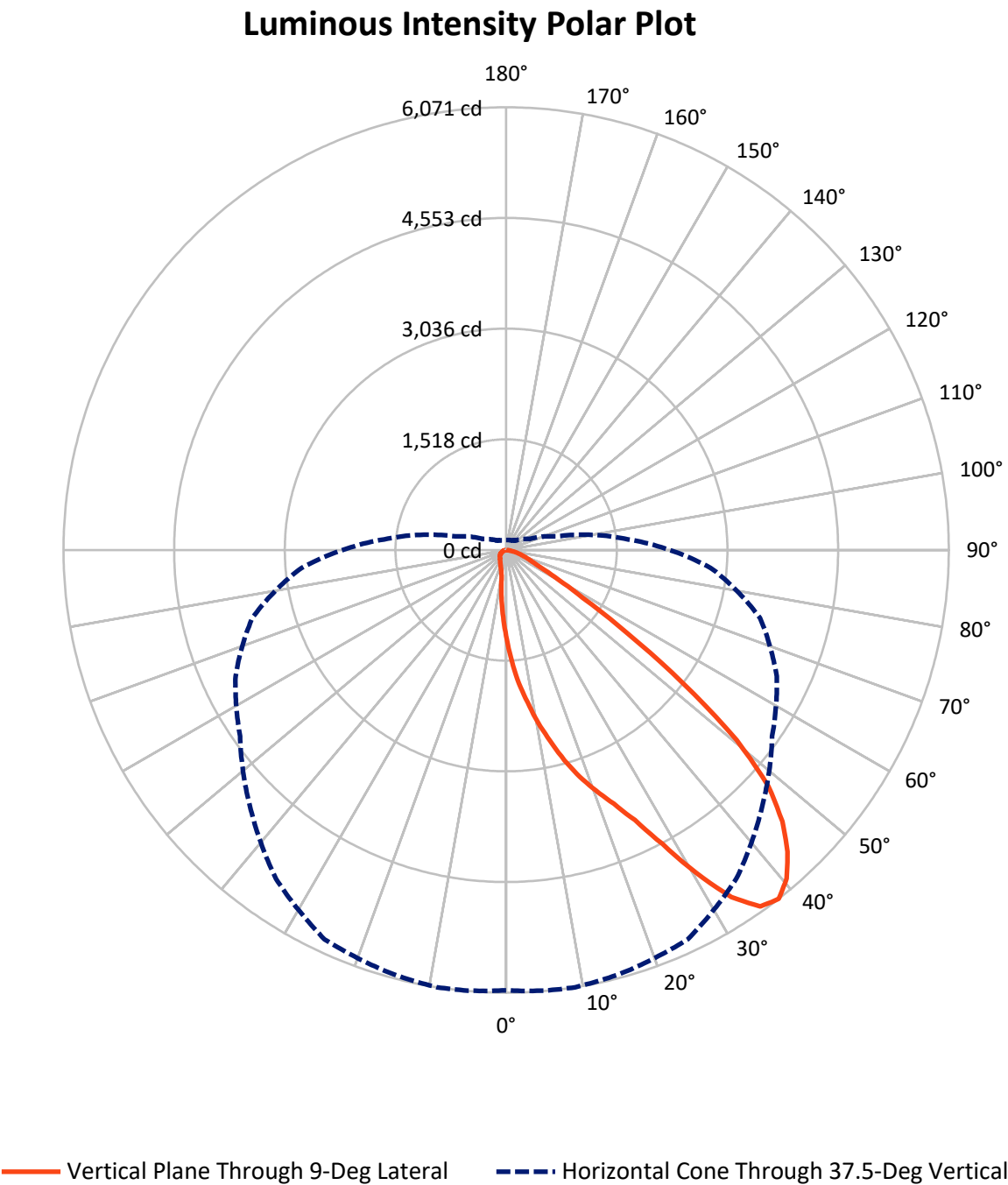
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type II - Short - N/A

REPORT NUMBER: P799378
CATALOG NUMBER: ARCH2-110-730-U-T2R-HSS



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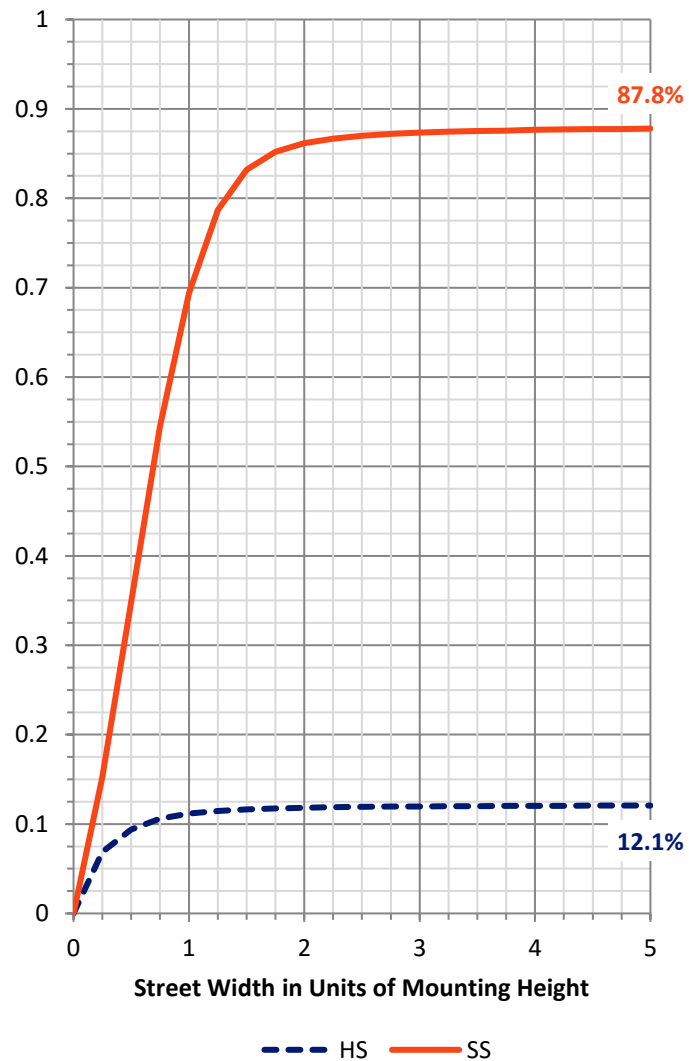
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1132.6	0.0	1132.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	8180.4	0.0	8180.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	9313.0	0.0	9313.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	1.3
10°-20°	430.1	4.6
20°-30°	883.7	9.5
30°-40°	1562.0	16.8
40°-50°	2075.0	22.3
50°-60°	1968.0	21.1
60°-70°	1501.4	16.1
70°-80°	727.9	7.8
80°-90°	41.0	0.4
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°	9313.0	100.0
0°-180°	9313.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799378

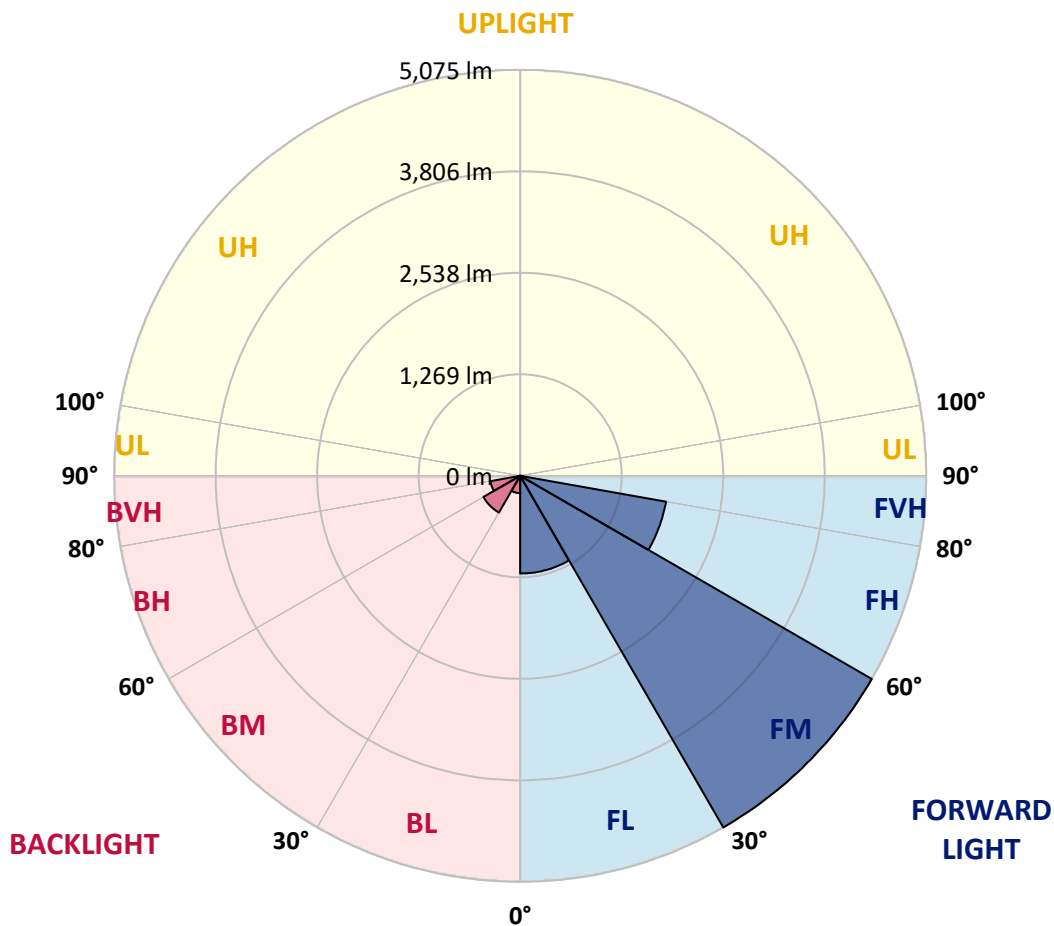
CATALOG NUMBER: ARCH2-110-730-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1221.4	13.1			
FM	(30°-60°)	5075.1	54.5			
FH	(60°-80°)	1851.4	19.9			G2/5000
FVH	(80°-90°)	32.4	0.3			G1/100
BL	(0°-30°)	216.1	2.3	B1/500		
BM	(30°-60°)	530.0	5.7	B1/1000		
BH	(60°-80°)	378.0	4.1	B1/500		G1/500
BVH	(80°-90°)	8.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



REPORT NUMBER: P799378

CATALOG NUMBER: ARCH2-110-730-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1231.1	1231.1	1231.1	1231.1	1231.1	1231.1	1231.1	1231.1	1231.1	1231.1	1231.1
2.5°	1525.5	1498.7	1529.3	1525.5	1498.7	1481.5	1428.0	1410.8	1347.7	1301.8	1261.7
5°	1839.0	1812.2	1839.0	1831.3	1793.1	1751.0	1663.1	1605.7	1493.0	1393.6	1303.7
7.5°	2098.9	2098.9	2110.4	2112.3	2066.4	2001.4	1892.5	1806.5	1647.8	1494.9	1351.5
10°	2379.9	2381.8	2406.7	2389.5	2328.3	2240.4	2102.8	1993.8	1802.6	1601.9	1397.4
12.5°	2680.1	2682.0	2689.6	2682.0	2609.3	2496.5	2330.2	2186.9	1967.0	1724.3	1460.5
15°	2980.2	2982.1	2991.6	2978.3	2898.0	2766.1	2576.8	2401.0	2141.0	1861.9	1536.9
17.5°	3261.2	3265.0	3272.6	3255.4	3171.3	3014.6	2821.5	2609.3	2326.4	2009.1	1622.9
20°	3513.5	3517.3	3523.1	3500.1	3416.0	3259.3	3050.9	2829.2	2515.7	2160.1	1716.6
22.5°	3767.7	3771.6	3781.1	3750.5	3656.9	3477.2	3272.6	3043.3	2716.4	2326.4	1825.6
25°	4092.7	4096.5	4104.2	4060.2	3932.1	3721.9	3505.9	3270.7	2934.3	2513.7	1959.4
27.5°	4568.7	4564.9	4564.9	4484.6	4264.8	3991.4	3741.0	3502.0	3169.4	2714.5	2106.6
30°	5157.5	5147.9	5142.2	5033.2	4719.7	4295.3	3981.8	3718.0	3395.0	2926.6	2265.2
32.5°	5685.1	5685.1	5673.6	5558.9	5226.3	4704.4	4238.0	3928.3	3612.9	3140.7	2429.6
35°	5996.7	6010.0	6004.3	5918.3	5675.5	5144.1	4584.0	4180.7	3842.3	3364.4	2626.5
37.5°	6038.7	6065.5	6071.2	6019.6	5891.5	5503.5	4968.2	4454.0	4094.6	3605.3	2817.7
40°	5868.6	5925.9	5925.9	5918.3	5872.4	5673.6	5291.3	4771.3	4354.6	3855.7	3010.8
42.5°	5606.7	5666.0	5658.3	5687.0	5675.5	5633.5	5472.9	5067.6	4614.6	4113.7	3186.6
45°	5264.5	5325.7	5310.4	5362.0	5385.0	5430.8	5453.8	5274.1	4870.7	4394.8	3383.5
47.5°	4715.9	4819.1	4842.1	4933.8	5029.4	5172.8	5281.7	5348.6	5109.7	4696.8	3597.6
50°	3905.4	4050.7	4096.5	4289.6	4551.5	4847.8	5023.7	5256.9	5277.9	5006.5	3828.9
52.5°	2796.7	2964.9	3035.6	3352.9	3892.0	4408.1	4725.5	5054.3	5342.9	5302.8	4079.3
55°	1808.4	1951.7	2020.6	2318.8	3035.6	3846.1	4373.7	4792.4	5306.6	5574.2	4366.1
57.5°	1114.5	1196.7	1242.5	1498.7	2158.2	3125.5	3913.0	4551.5	5195.7	5809.3	4664.3
60°	751.3	799.0	822.0	942.4	1466.2	2336.0	3280.3	4299.2	5050.4	5968.0	4935.7
62.5°	498.9	514.2	537.2	611.7	967.3	1640.1	2519.5	3848.0	4941.5	5977.6	5136.5
65°	386.1	393.8	403.3	435.8	596.4	1147.0	1772.0	3117.8	4779.0	5774.9	5199.5
67.5°	303.9	311.6	323.1	340.3	432.0	778.0	1206.2	2284.4	4446.4	5457.6	5096.3
70°	238.9	244.7	252.3	267.6	336.4	563.9	797.1	1517.8	3775.4	5155.6	4771.3
72.5°	189.2	195.0	202.6	217.9	273.4	412.9	546.7	946.2	2911.4	4786.6	4146.2
75°	149.1	152.9	158.7	174.0	219.8	321.1	370.8	565.8	1978.5	4111.8	3230.6
77.5°	74.6	91.8	105.1	120.4	160.6	221.7	246.6	313.5	835.4	2110.4	1540.7
80°	44.0	53.5	57.3	66.9	105.1	133.8	133.8	126.2	263.8	810.5	628.9
82.5°	24.9	34.4	36.3	38.2	63.1	76.5	61.2	45.9	53.5	271.4	183.5
85°	7.6	11.5	13.4	15.3	21.0	22.9	21.0	19.1	15.3	26.8	17.2
87.5°	0.0	0.0	0.0	0.0	1.9	3.8	3.8	3.8	5.7	5.7	5.7
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: P799378

CATALOG NUMBER: ARCH2-110-730-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1231.1	1231.1	1231.1	1231.1	1231.1	1231.1	1231.1	1231.1	1231.1	1231.1	1231.1
2.5°	1238.7	1213.9	1166.1	1122.1	1080.1	1049.5	1020.8	994.0	974.9	959.6	957.7
5°	1255.9	1206.2	1114.5	1028.4	950.1	885.1	829.6	785.7	753.2	730.2	728.3
7.5°	1278.9	1202.4	1062.8	934.8	818.2	724.5	644.2	584.9	542.9	525.7	512.3
10°	1298.0	1198.6	1011.2	841.1	688.2	569.7	474.1	414.8	384.2	372.8	367.0
12.5°	1330.5	1202.4	967.3	755.1	575.4	435.8	363.2	330.7	317.3	307.8	305.9
15°	1378.3	1219.6	925.2	671.0	460.7	351.7	309.7	288.7	275.3	273.4	271.4
17.5°	1426.0	1234.9	887.0	584.9	382.3	305.9	277.2	260.0	250.4	248.5	248.5
20°	1481.5	1254.0	844.9	502.7	326.9	275.3	252.3	238.9	227.5	225.6	225.6
22.5°	1546.5	1280.8	804.8	430.1	290.6	252.3	233.2	217.9	208.4	206.5	206.5
25°	1634.4	1320.9	772.3	376.6	265.7	233.2	216.0	202.6	195.0	191.2	191.2
27.5°	1731.9	1376.3	749.3	344.1	248.5	217.9	200.7	189.2	181.6	177.8	177.8
30°	1840.9	1437.5	734.1	330.7	238.9	204.5	189.2	177.8	168.2	166.3	166.3
32.5°	1961.3	1508.2	724.5	332.6	237.0	195.0	177.8	166.3	158.7	154.8	154.8
35°	2095.1	1586.6	718.8	344.1	240.9	187.3	168.2	156.8	149.1	145.3	145.3
37.5°	2244.2	1678.4	718.8	355.6	250.4	185.4	158.7	147.2	141.5	137.6	137.6
40°	2383.8	1775.9	726.4	368.9	260.0	185.4	151.0	141.5	133.8	130.0	130.0
42.5°	2492.7	1831.3	732.1	382.3	265.7	183.5	143.4	133.8	128.1	124.3	124.3
45°	2617.0	1890.6	720.7	388.1	265.7	179.7	137.6	128.1	122.3	118.5	118.5
47.5°	2754.6	1963.2	718.8	391.9	260.0	172.0	131.9	122.3	118.5	114.7	114.7
50°	2894.2	2043.5	722.6	390.0	252.3	160.6	124.3	118.5	112.8	109.0	109.0
52.5°	3052.8	2127.6	730.2	386.1	235.1	147.2	118.5	112.8	107.0	103.2	101.3
55°	3228.7	2219.4	745.5	378.5	212.2	133.8	112.8	107.0	99.4	95.6	93.7
57.5°	3431.3	2332.1	762.7	363.2	187.3	122.3	107.0	99.4	87.9	82.2	80.3
60°	3624.4	2460.2	781.8	326.9	162.5	110.9	101.3	89.8	78.4	74.6	72.6
62.5°	3806.0	2586.4	791.4	261.9	137.6	101.3	95.6	82.2	70.7	66.9	65.0
65°	3922.6	2724.0	770.4	177.8	112.8	93.7	87.9	76.5	65.0	59.3	59.3
67.5°	3930.2	2789.0	697.7	116.6	91.8	84.1	80.3	68.8	57.3	53.5	51.6
70°	3737.2	2691.5	533.3	91.8	76.5	72.6	72.6	61.2	49.7	45.9	44.0
72.5°	3293.7	2383.8	340.3	74.6	65.0	61.2	61.2	51.6	44.0	38.2	36.3
75°	2599.8	1839.0	181.6	61.2	53.5	51.6	47.8	42.1	36.3	32.5	30.6
77.5°	1194.7	810.5	84.1	44.0	40.1	40.1	36.3	30.6	28.7	24.9	24.9
80°	472.2	275.3	42.1	28.7	26.8	26.8	26.8	21.0	21.0	17.2	15.3
82.5°	130.0	57.3	21.0	17.2	17.2	17.2	15.3	13.4	13.4	11.5	11.5
85°	13.4	9.6	9.6	9.6	9.6	7.6	7.6	5.7	3.8	3.8	3.8
87.5°	5.7	5.7	5.7	5.7	5.7	3.8	1.9	0.0	0.0	0.0	0.0
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)