

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: P258067

Luminaire Tested: **ARCH-L-AF72-110-D-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-3)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-110-D-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10878.1 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

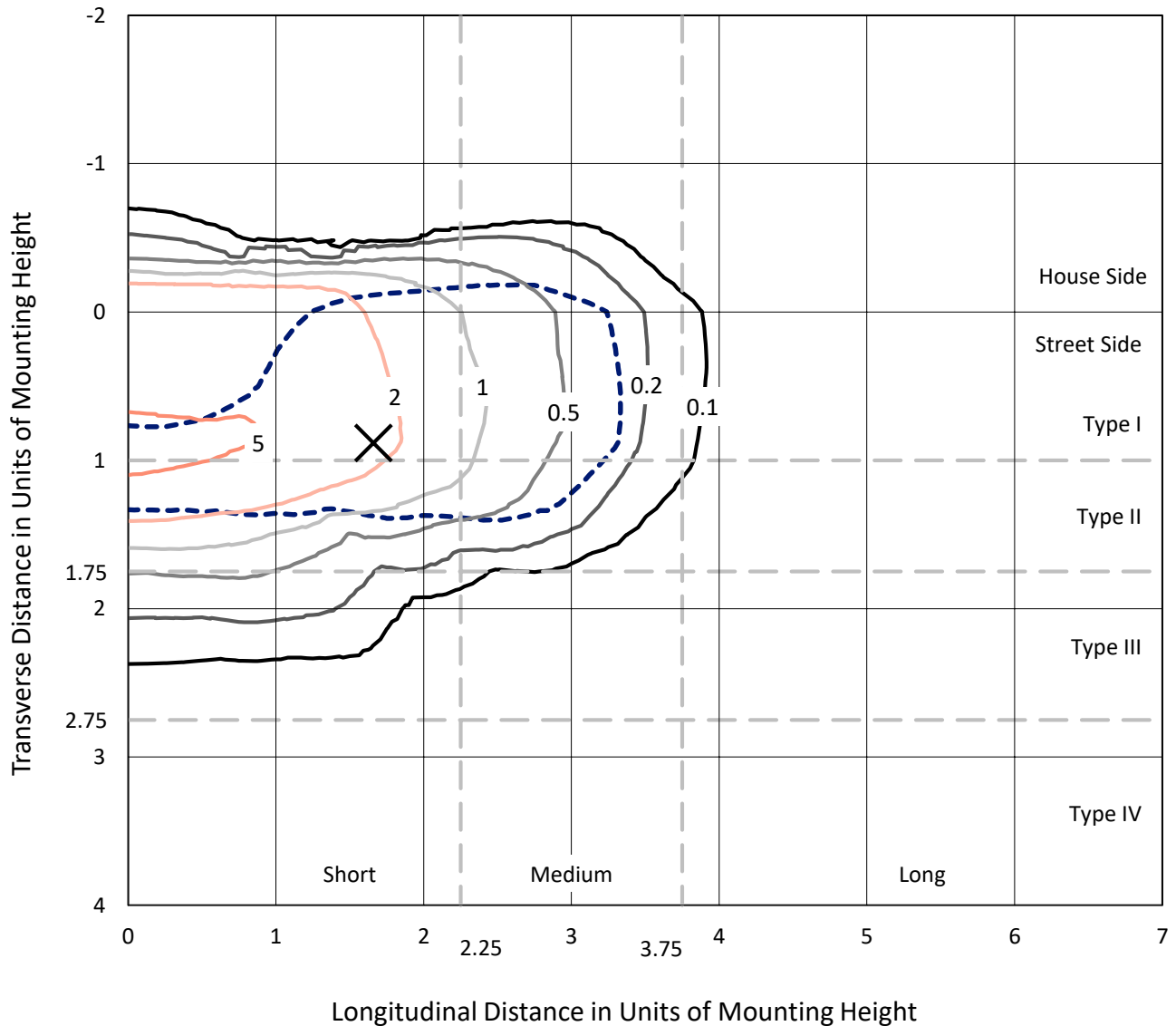
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P258067
 CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

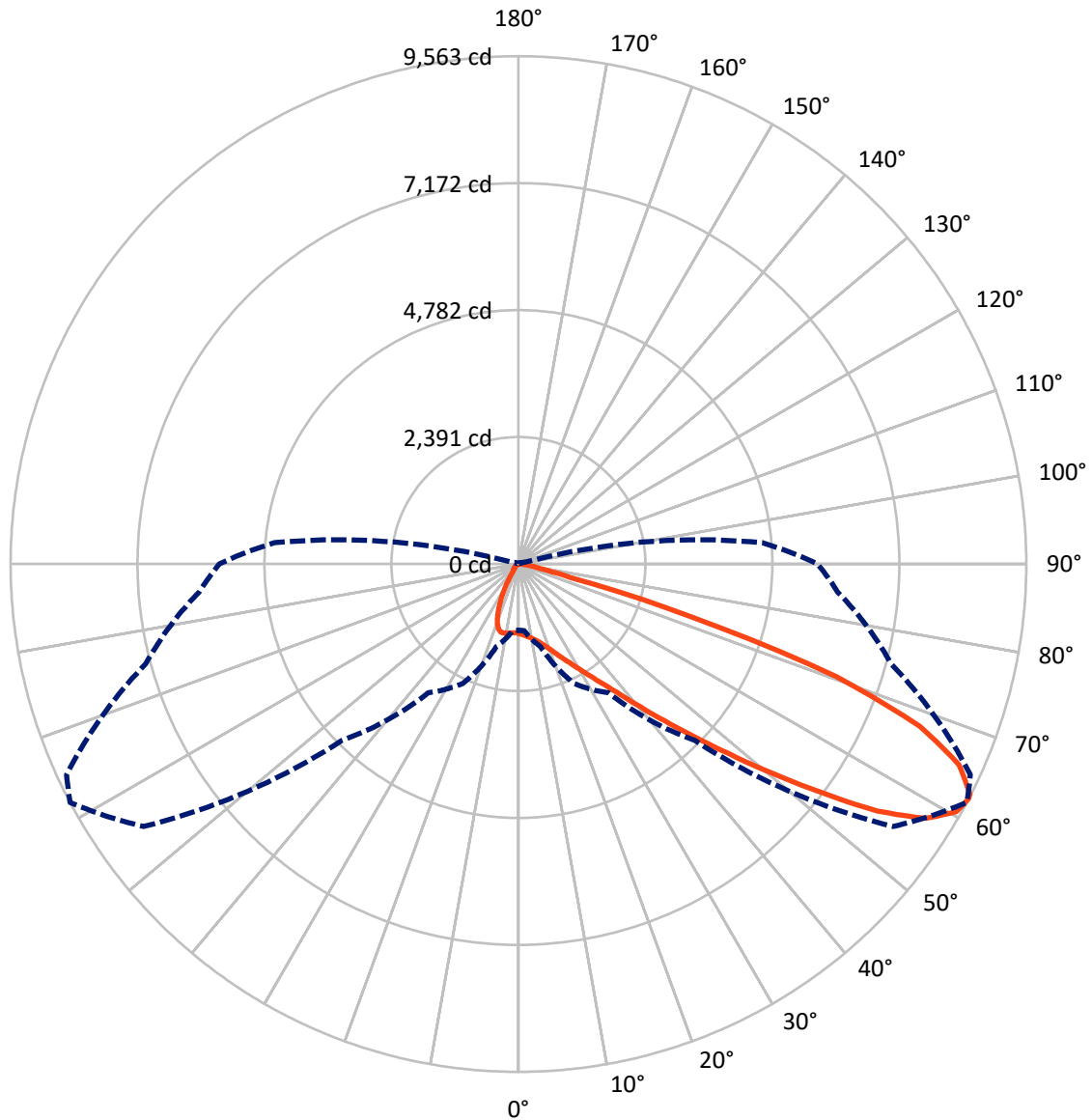
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P258067
CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2U-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical

REPORT NUMBER: P258067

CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2U-HSS

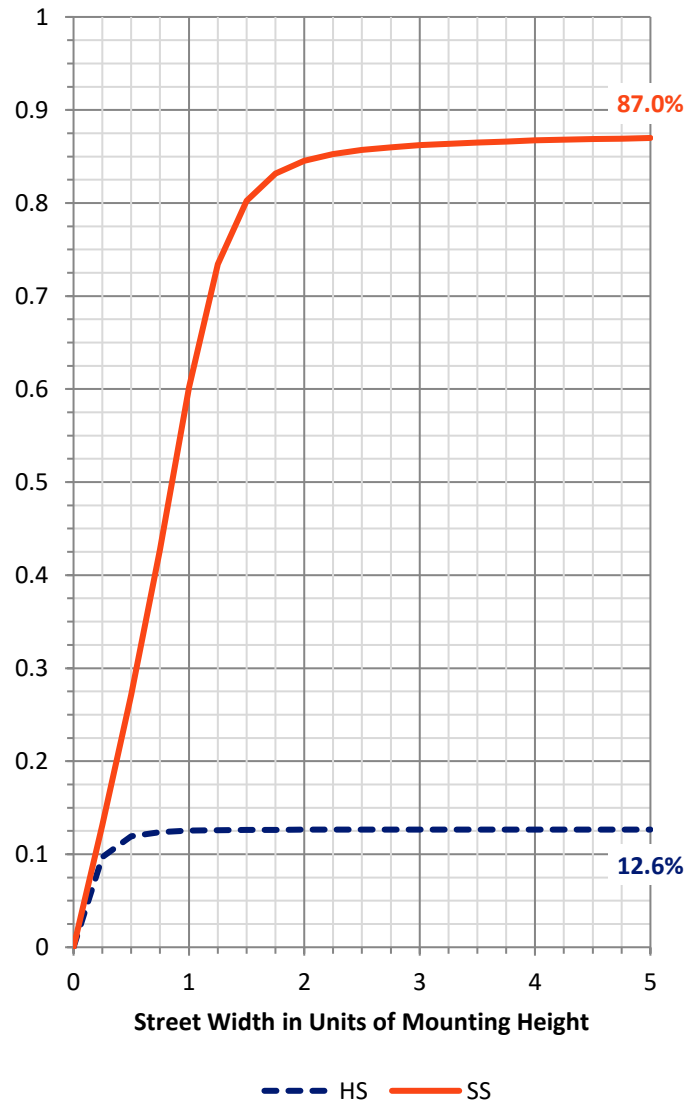
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1390.9	0.0	1390.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	9487.2	0.0	9487.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	10878.1	0.0	10878.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	1.2
10°-20°	352.2	3.2
20°-30°	591.4	5.4
30°-40°	1133.7	10.4
40°-50°	2315.7	21.3
50°-60°	3064.4	28.2
60°-70°	2380.5	21.9
70°-80°	859.3	7.9
80°-90°	54.8	0.5
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°	10878.1	100.0
0°-180°	10878.1	100.0

Coefficient of Utilization



REPORT NUMBER: P258067

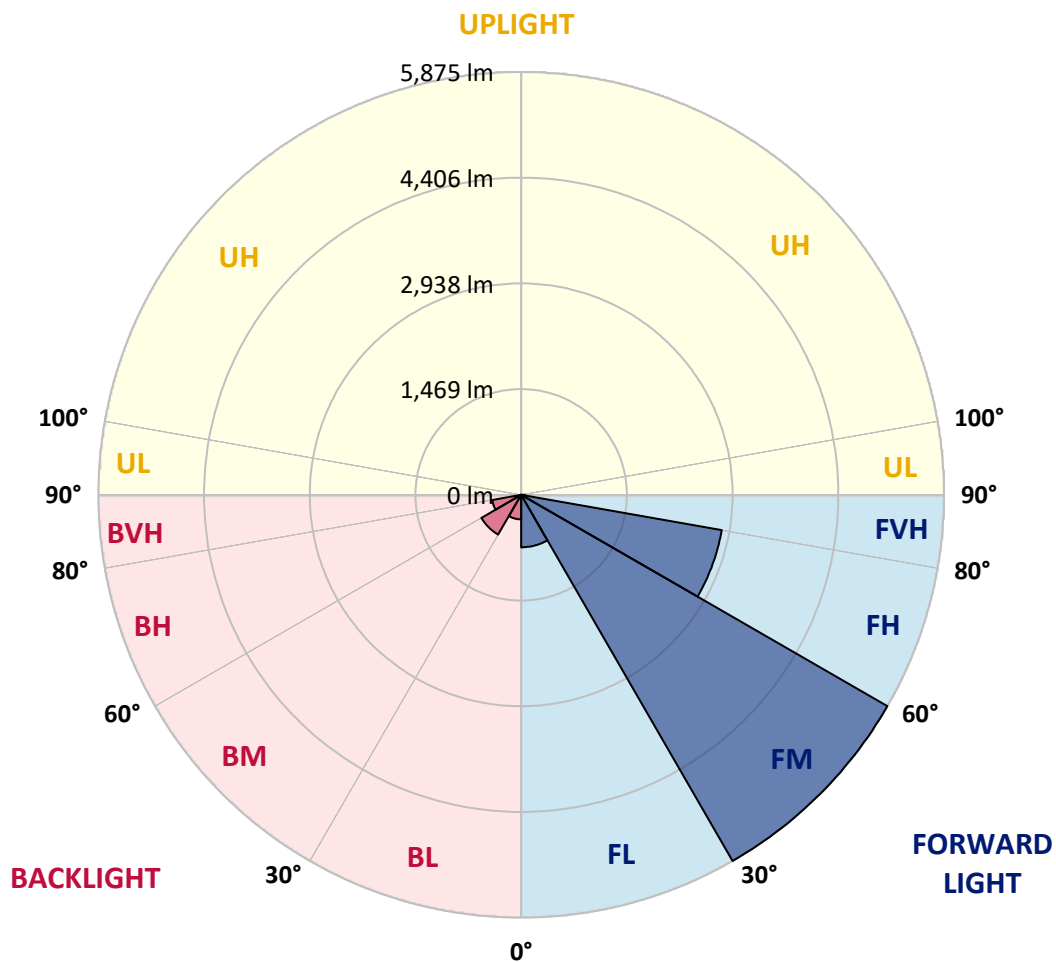
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	729.3	6.7			
FM	(30°-60°)	5875.3	54.0			
FH	(60°-80°)	2830.2	26.0			G2/5000
FVH	(80°-90°)	52.4	0.5			G1/100
BL	(0°-30°)	340.4	3.1	B1/500		
BM	(30°-60°)	638.5	5.9	B1/1000		
BH	(60°-80°)	409.6	3.8	B1/500		G1/500
BVH	(80°-90°)	2.4	0.0			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: P258067

CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	1310.4	1310.4	1310.4	1310.4	1310.4	1310.4	1310.4	1310.4	1310.4	1310.4	1310.4
2.5°	1345.2	1342.5	1339.9	1337.1	1337.1	1334.4	1331.8	1326.5	1321.1	1315.7	1313.1
5°	1369.2	1366.6	1363.9	1366.6	1363.9	1363.9	1361.2	1355.8	1350.5	1342.5	1334.4
7.5°	1387.9	1385.3	1382.6	1385.3	1387.9	1390.6	1393.3	1387.9	1385.3	1374.5	1366.6
10°	1412.0	1409.3	1406.7	1412.0	1412.0	1425.4	1428.0	1425.4	1422.7	1414.7	1401.3
12.5°	1446.8	1449.4	1449.4	1454.8	1460.2	1476.2	1481.5	1473.6	1473.6	1462.8	1446.8
15°	1511.0	1511.0	1511.0	1516.3	1519.0	1540.4	1545.8	1537.7	1543.0	1524.3	1508.3
17.5°	1572.5	1575.1	1580.5	1591.2	1591.2	1609.9	1620.7	1620.7	1631.3	1607.3	1585.9
20°	1634.0	1636.6	1644.7	1668.7	1668.7	1692.8	1711.5	1719.6	1730.2	1706.2	1668.7
22.5°	1700.9	1700.9	1714.3	1751.7	1743.6	1791.8	1826.6	1839.9	1850.6	1818.5	1759.7
25°	1802.4	1791.8	1802.4	1837.2	1831.9	1898.7	1962.9	1976.3	1989.6	1952.2	1864.0
27.5°	1995.1	1979.0	1941.6	1944.2	1944.2	2021.8	2112.7	2131.4	2139.4	2107.4	1997.7
30°	2380.1	2380.1	2241.1	2147.5	2085.9	2155.5	2283.8	2316.0	2326.6	2278.5	2134.1
32.5°	3051.4	3051.4	2794.6	2556.7	2323.9	2323.9	2471.0	2529.9	2540.6	2484.4	2316.0
35°	3907.2	3901.8	3516.7	3190.5	2735.8	2564.6	2690.4	2789.3	2821.4	2746.5	2551.2
37.5°	4816.4	4781.7	4367.1	3992.7	3369.6	2949.8	2987.2	3118.3	3147.6	3086.1	2856.2
40°	5554.5	5514.4	5180.1	4867.2	4188.0	3564.9	3415.1	3535.4	3570.2	3484.6	3219.8
42.5°	6223.1	6124.1	5894.1	5669.5	5129.3	4629.2	3984.7	4032.9	4070.3	3979.4	3629.0
45°	6707.1	6554.7	6437.0	6367.5	6081.3	5797.9	4722.8	4626.5	4639.9	4527.6	4075.6
47.5°	6720.5	6613.5	6624.2	6806.1	6923.7	6913.0	5682.9	5340.5	5289.8	5102.6	4551.6
50°	6078.7	6140.2	6335.4	6854.2	7490.7	7875.8	6824.8	6185.7	6033.2	5696.2	5025.0
52.5°	5009.0	5105.2	5471.6	6346.1	7573.6	8509.6	8009.5	7151.0	6878.3	6284.6	5388.7
55°	3923.2	3928.5	4313.7	5204.2	7020.0	8624.6	8956.2	8212.8	7795.6	6731.2	5629.4
57.5°	2698.3	2845.4	3334.8	3933.9	5771.1	8052.3	9311.9	9036.4	8498.9	7006.6	5797.9
60°	1767.7	1775.7	2345.3	3038.0	3928.5	6552.0	9095.3	9472.3	9068.6	7169.8	5912.9
62°	1246.3	1259.6	1612.6	2481.8	2960.4	4696.1	8616.6	9563.3	9389.5	7266.0	6033.2
62.5°	1155.3	1166.0	1462.8	2342.7	2781.3	4212.0	8445.4	9541.9	9437.5	7298.1	6076.0
65°	847.7	847.7	957.4	1609.9	2037.8	2275.9	7156.4	9116.6	9373.4	7554.9	6236.4
67.5°	655.2	660.5	698.0	992.2	1537.7	1380.0	4567.7	8159.3	8704.8	7934.6	6327.4
70°	564.3	561.6	588.3	657.9	1109.8	917.3	2011.0	6367.5	7290.2	7838.4	6244.5
72.5°	417.2	419.8	481.4	577.7	772.8	596.4	909.3	3380.3	4728.2	6134.8	5351.3
75°	267.4	270.1	339.6	454.6	556.3	390.5	524.2	1008.2	1936.1	3401.7	3273.3
77.5°	179.2	184.5	222.0	318.2	486.7	243.4	329.0	422.6	583.0	1275.6	1174.0
80°	120.3	120.3	141.8	213.9	307.5	203.3	176.5	280.8	302.2	395.8	197.9
82.5°	80.2	80.2	93.6	141.8	200.6	181.9	107.0	152.4	176.5	197.9	69.6
85°	48.2	48.2	64.1	88.3	131.0	101.6	69.6	85.6	90.9	125.7	37.4
87.5°	29.5	26.7	42.8	61.5	69.6	61.5	45.4	45.4	48.2	69.6	18.7
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: P258067

CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1310.4	1310.4	1310.4	1310.4	1310.4	1310.4	1310.4	1310.4	1310.4	1310.4	1310.4
2.5°	1307.7	1305.1	1302.4	1297.0	1289.0	1283.7	1278.3	1273.0	1267.6	1267.6	1275.6
5°	1331.8	1323.8	1313.1	1302.4	1286.4	1275.6	1267.6	1256.9	1251.6	1251.6	1254.2
7.5°	1361.2	1353.2	1334.4	1315.7	1291.7	1273.0	1254.2	1230.2	1211.5	1203.4	1211.5
10°	1393.3	1382.6	1355.8	1326.5	1299.7	1251.6	1190.1	1115.2	1051.0	1021.6	1034.9
12.5°	1433.5	1420.1	1387.9	1347.8	1286.4	1168.6	1016.2	842.4	732.7	681.9	692.6
15°	1492.3	1473.6	1428.0	1366.6	1230.2	976.1	727.4	526.8	425.2	382.4	387.8
17.5°	1561.7	1537.7	1476.2	1361.2	1085.8	703.4	433.2	307.5	264.7	254.1	254.1
20°	1636.6	1604.6	1524.3	1321.1	866.4	441.3	270.1	235.4	219.3	211.2	211.2
22.5°	1714.3	1671.4	1564.5	1227.5	617.8	275.5	222.0	197.9	179.2	171.1	171.1
25°	1807.9	1751.7	1604.6	1064.4	393.1	222.0	189.9	165.8	147.1	136.4	139.0
27.5°	1917.4	1845.3	1639.4	861.1	254.1	192.5	157.7	133.7	117.6	112.3	112.3
30°	2032.5	1946.9	1647.4	644.5	205.9	165.8	131.0	109.7	98.9	93.6	93.6
32.5°	2190.2	2077.9	1623.3	427.9	173.8	139.0	109.7	90.9	82.9	80.2	80.2
35°	2398.8	2249.1	1567.2	264.7	147.1	115.0	90.9	80.2	72.2	69.6	69.6
37.5°	2663.6	2487.1	1468.1	181.9	125.7	93.6	77.5	69.6	64.1	61.5	61.5
40°	3016.6	2775.9	1339.9	157.7	107.0	80.2	66.9	61.5	56.2	56.2	56.2
42.5°	3391.0	3126.2	1174.0	139.0	90.9	69.6	58.8	53.5	50.8	48.2	48.2
45°	3800.2	3484.6	968.1	123.1	77.5	61.5	53.5	45.4	42.8	42.8	42.8
47.5°	4206.7	3853.7	743.5	107.0	66.9	53.5	45.4	40.1	37.4	34.8	34.8
50°	4623.8	4188.0	545.5	93.6	58.8	48.2	40.1	34.8	29.5	26.7	26.7
52.5°	4926.0	4388.6	398.4	80.2	50.8	40.1	32.1	26.7	21.4	18.7	18.7
55°	5148.0	4511.5	291.5	66.9	45.4	34.8	26.7	21.4	16.1	16.1	13.4
57.5°	5321.8	4570.3	219.3	58.8	40.1	29.5	21.4	16.1	13.4	10.7	10.7
60°	5455.6	4573.0	163.2	48.2	34.8	24.0	16.1	10.7	8.0	8.0	8.0
62°	5632.1	4607.8	133.7	40.1	32.1	21.4	13.4	8.0	5.3	2.7	2.7
62.5°	5682.9	4621.2	128.4	40.1	29.5	18.7	10.7	8.0	5.3	2.7	2.7
65°	5918.2	4645.2	98.9	32.1	24.0	16.1	8.0	5.3	0.0	0.0	0.0
67.5°	6132.2	4607.8	72.2	24.0	18.7	10.7	8.0	2.7	0.0	0.0	0.0
70°	6110.8	4351.1	50.8	16.1	13.4	8.0	5.3	0.0	0.0	0.0	0.0
72.5°	5035.7	3257.3	34.8	13.4	8.0	5.3	2.7	0.0	0.0	0.0	0.0
75°	3040.7	1425.4	24.0	8.0	8.0	5.3	2.7	0.0	0.0	0.0	0.0
77.5°	997.5	516.2	16.1	5.3	5.3	2.7	2.7	0.0	0.0	0.0	0.0
80°	163.2	85.6	8.0	5.3	5.3	2.7	2.7	0.0	0.0	0.0	0.0
82.5°	50.8	21.4	5.3	5.3	2.7	2.7	0.0	0.0	0.0	0.0	0.0
85°	18.7	8.0	5.3	5.3	2.7	2.7	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	5.3	5.3	5.3	2.7	2.7	0.0	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)