

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: P399239

Luminaire Tested: **ARCH-L-PA3-110-827-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-110-827-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 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: 9289 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

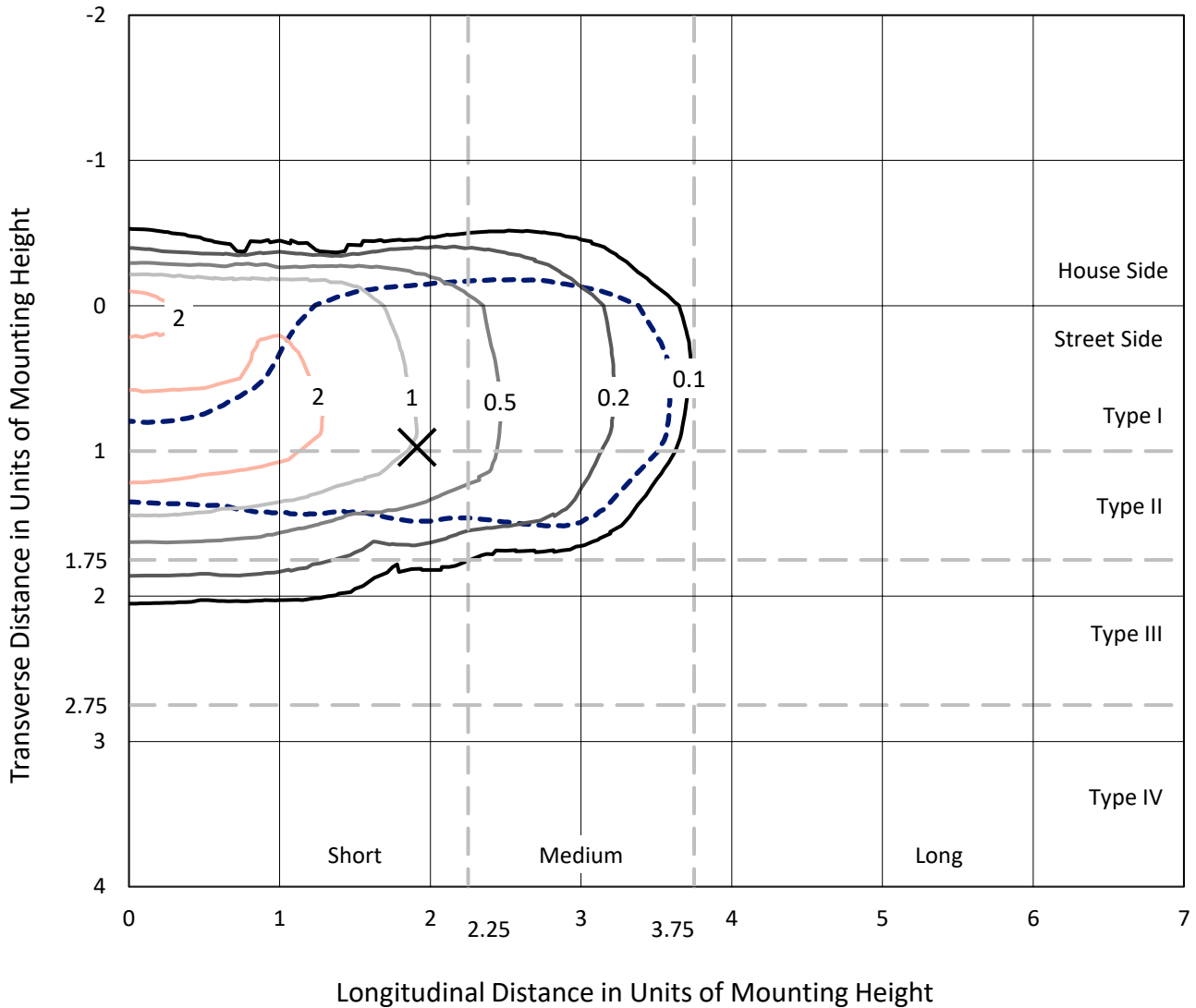
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

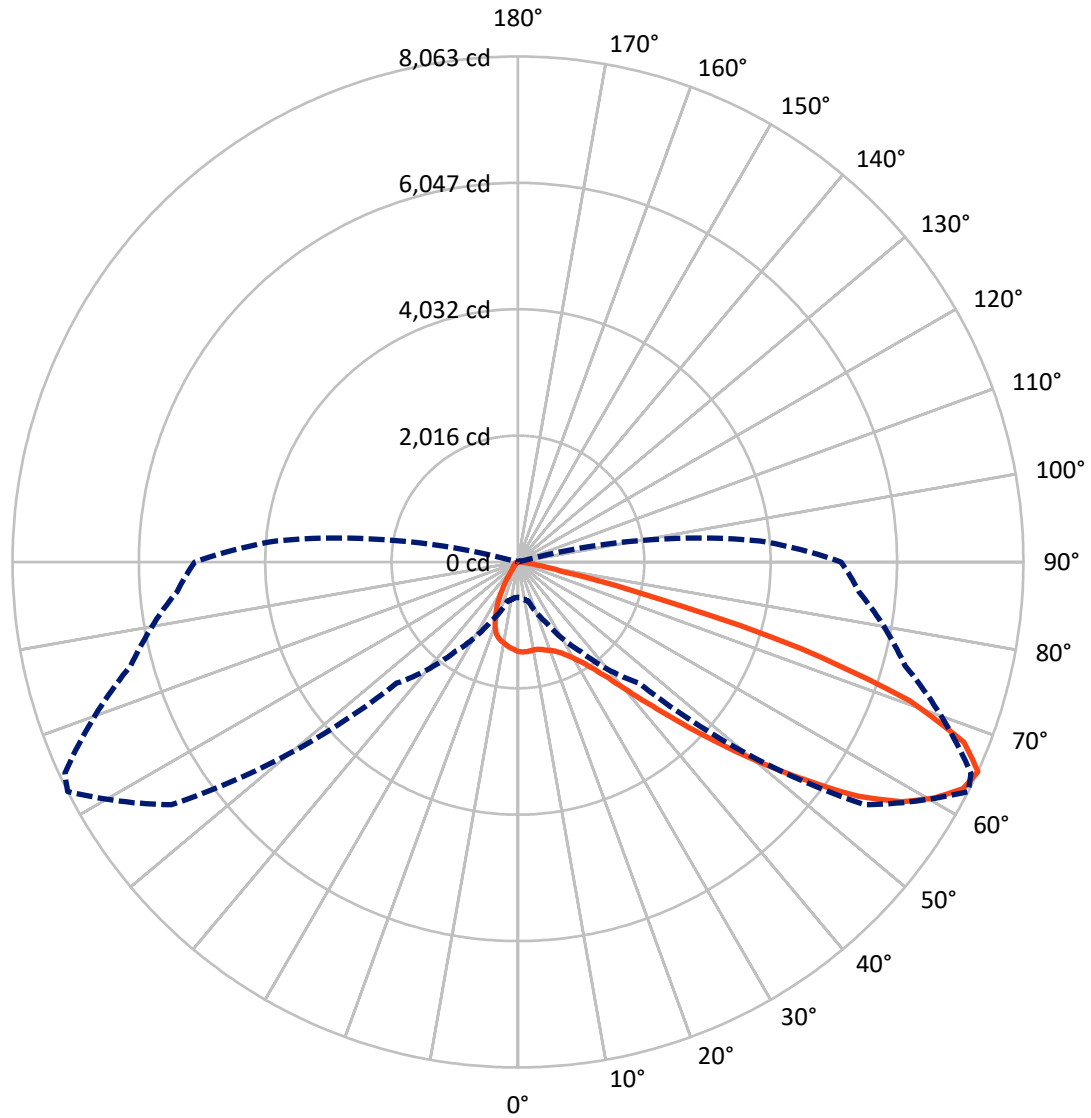
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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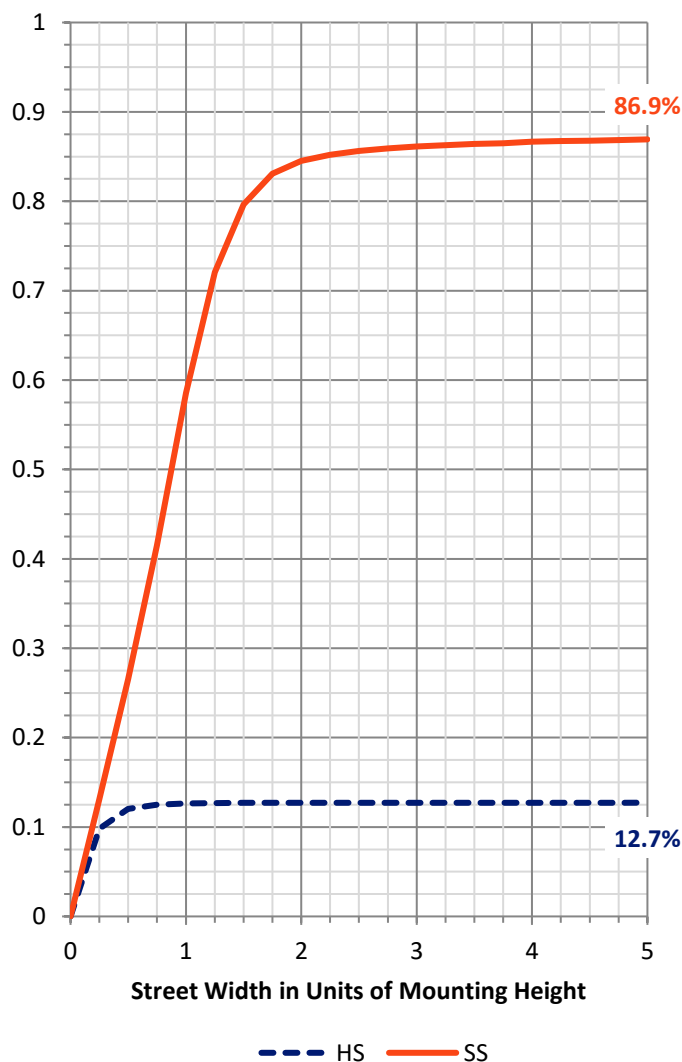
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1195.5	0.0	1195.5
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	8093.5	0.0	8093.5
	% Fixture	87.1	0.0	87.1
Total	Lumens	9289.0	0.0	9289.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	1.4
10°-20°	322.1	3.5
20°-30°	477.4	5.1
30°-40°	886.5	9.5
40°-50°	1877.9	20.2
50°-60°	2596.7	28.0
60°-70°	2078.7	22.4
70°-80°	863.7	9.3
80°-90°	55.5	0.6
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°	9289.0	100.0
0°-180°	9289.0	100.0

Coefficient of Utilization

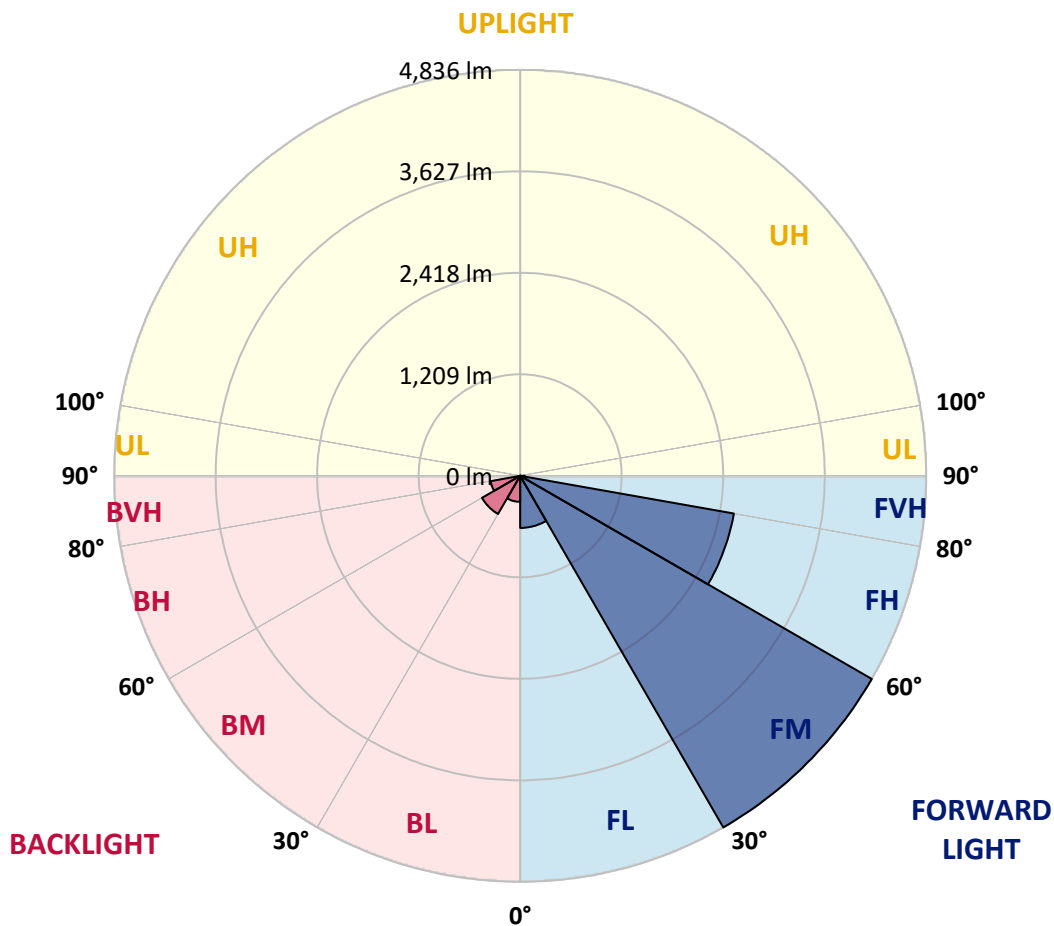


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	620.3	6.7			
FM (30°-60°)	4835.9	52.1			
FH (60°-80°)	2584.4	27.8			G2/5000
FVH (80°-90°)	52.9	0.6			G1/100
BL (0°-30°)	309.8	3.3	B1/500		
BM (30°-60°)	525.2	5.7	B1/1000		
BH (60°-80°)	358.0	3.9	B1/500		G1/500
BVH (80°-90°)	2.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0
2.5°	1455.5	1452.0	1448.5	1446.8	1446.8	1445.0	1438.0	1436.2	1432.7	1429.2	1425.7
5°	1441.5	1436.2	1434.5	1436.2	1438.0	1441.5	1438.0	1438.0	1434.5	1431.0	1424.0
7.5°	1406.4	1402.9	1404.7	1409.9	1411.7	1424.0	1425.7	1431.0	1431.0	1427.5	1422.2
10°	1364.3	1362.6	1362.6	1371.4	1380.1	1397.7	1409.9	1424.0	1425.7	1425.7	1416.9
12.5°	1332.8	1331.0	1336.3	1346.8	1364.3	1387.1	1408.2	1429.2	1432.7	1434.5	1420.5
15°	1313.5	1313.5	1320.5	1341.5	1366.1	1397.7	1422.2	1450.3	1453.8	1452.0	1432.7
17.5°	1295.9	1297.7	1311.7	1346.8	1374.9	1416.9	1446.8	1478.3	1480.1	1478.3	1446.8
20°	1288.9	1292.4	1313.5	1359.1	1390.6	1438.0	1476.6	1508.1	1509.9	1502.9	1460.8
22.5°	1308.2	1310.0	1336.3	1385.4	1415.2	1467.8	1516.9	1546.7	1548.5	1537.9	1481.8
25°	1374.9	1374.9	1397.7	1439.7	1466.0	1518.7	1571.3	1606.3	1606.3	1594.1	1529.2
27.5°	1530.9	1516.9	1511.6	1523.9	1532.7	1588.8	1644.9	1688.8	1687.0	1669.5	1590.6
30°	1832.6	1797.5	1741.4	1678.2	1646.7	1685.3	1737.9	1794.0	1792.2	1764.2	1666.0
32.5°	2339.4	2288.5	2155.2	1988.6	1853.6	1809.8	1858.9	1920.2	1922.0	1888.7	1787.0
35°	3049.6	2968.9	2730.4	2498.9	2190.3	2023.7	2037.7	2104.4	2125.4	2107.9	1990.4
37.5°	3733.5	3659.9	3431.9	3111.0	2691.8	2351.6	2292.0	2349.9	2374.4	2374.4	2249.9
40°	4422.7	4336.8	4135.1	3812.4	3370.5	2863.7	2649.8	2697.1	2723.4	2728.7	2565.6
42.5°	4975.1	4919.0	4764.7	4513.9	4100.0	3761.6	3165.3	3139.0	3163.6	3144.3	2932.1
45°	5357.4	5313.5	5206.6	5111.9	4910.2	4740.1	3854.5	3677.4	3693.2	3626.5	3344.2
47.5°	5436.3	5387.2	5364.4	5495.9	5639.7	5681.8	4701.5	4317.5	4301.7	4154.4	3772.1
50°	5092.6	5097.9	5182.0	5557.3	6157.1	6535.8	5683.6	5040.0	4982.1	4654.2	4170.2
52.5°	4350.8	4435.0	4647.2	5255.7	6314.9	7156.6	6665.6	5806.3	5716.9	5139.9	4468.3
55°	3403.8	3512.6	3861.5	4561.2	5985.2	7433.7	7493.3	6602.5	6399.1	5504.7	4699.8
57.5°	2530.5	2563.8	2970.7	3609.0	5204.8	7161.9	7917.7	7216.3	6955.0	5795.8	4929.5
60°	1576.5	1597.6	2027.2	2748.0	3942.2	6157.1	7917.7	7638.9	7389.9	6057.1	5139.9
62.5°	980.3	987.3	1148.6	1883.4	2679.6	4566.5	7589.8	7966.8	7766.9	6244.7	5320.6
65°	564.7	571.7	647.1	1064.5	1743.1	2733.9	6751.5	8063.3	7973.8	6393.8	5460.9
67.5°	412.1	415.6	445.4	598.0	1139.9	1404.7	5071.5	7675.7	7787.9	6467.4	5457.3
70°	357.7	363.0	401.6	466.5	822.5	862.8	2581.4	6628.8	6942.7	6362.2	5294.3
72.5°	275.3	282.3	340.2	438.4	603.3	620.8	934.7	4717.3	5192.5	5704.6	4847.1
75°	189.4	196.4	254.3	361.3	498.0	464.7	513.8	2171.0	2739.2	3826.5	3689.7
77.5°	121.0	122.8	159.6	263.0	429.6	329.7	352.5	708.5	994.3	1730.8	1741.4
80°	80.7	82.4	98.2	170.1	294.6	305.1	217.5	327.9	359.5	505.1	350.7
82.5°	49.1	49.1	66.6	107.0	178.9	252.5	142.0	171.9	184.1	194.7	91.2
85°	19.3	19.3	40.3	70.1	112.2	117.5	89.4	100.0	105.2	114.0	42.1
87.5°	5.3	5.3	22.8	38.6	49.1	54.4	54.4	49.1	52.6	64.9	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0	1431.0
2.5°	1424.0	1418.7	1411.7	1404.7	1397.7	1392.4	1387.1	1387.1	1383.6	1378.4	1374.9
5°	1420.5	1411.7	1395.9	1383.6	1364.3	1350.3	1339.8	1331.0	1325.8	1313.5	1311.7
7.5°	1415.2	1404.7	1381.9	1357.3	1325.8	1301.2	1276.7	1259.1	1241.6	1227.6	1224.0
10°	1406.4	1394.1	1360.8	1325.8	1281.9	1236.3	1178.5	1111.8	1050.4	1015.4	1004.8
12.5°	1406.4	1390.6	1346.8	1299.5	1236.3	1124.1	976.8	829.5	715.5	664.6	650.6
15°	1415.2	1394.1	1336.3	1271.4	1153.9	925.9	687.4	492.8	368.3	329.7	320.9
17.5°	1424.0	1394.1	1320.5	1232.8	1003.1	671.6	391.1	259.5	219.2	210.4	210.4
20°	1427.5	1390.6	1299.5	1160.9	801.4	417.4	233.2	194.7	178.9	173.6	173.6
22.5°	1441.5	1392.4	1283.7	1057.4	582.2	245.5	184.1	163.1	147.3	142.0	142.0
25°	1476.6	1413.4	1287.2	925.9	373.5	185.9	156.1	135.0	119.2	112.2	112.2
27.5°	1532.7	1460.8	1306.5	773.4	235.0	159.6	131.5	108.7	96.5	89.4	89.4
30°	1595.8	1513.4	1315.2	598.0	175.4	135.0	107.0	85.9	77.2	71.9	70.1
32.5°	1706.3	1604.6	1308.2	410.4	143.8	114.0	85.9	68.4	61.4	59.6	59.6
35°	1883.4	1764.2	1294.2	257.8	119.2	91.2	68.4	56.1	50.9	49.1	47.3
37.5°	2123.7	1997.4	1252.1	170.1	98.2	71.9	56.1	47.3	42.1	40.3	40.3
40°	2416.5	2264.0	1171.4	129.8	84.2	57.9	47.3	40.3	36.8	35.1	35.1
42.5°	2751.5	2560.3	1043.4	112.2	70.1	49.1	40.3	33.3	31.6	29.8	29.8
45°	3118.0	2870.7	866.3	100.0	59.6	40.3	33.3	29.8	26.3	26.3	24.6
47.5°	3507.3	3182.9	666.4	87.7	50.9	35.1	29.8	24.6	22.8	21.0	21.0
50°	3882.6	3461.7	468.2	75.4	42.1	29.8	24.6	21.0	19.3	17.5	17.5
52.5°	4147.4	3630.0	331.4	64.9	35.1	26.3	19.3	15.8	14.0	14.0	14.0
55°	4359.6	3735.3	231.5	54.4	29.8	22.8	15.8	12.3	12.3	10.5	10.5
57.5°	4559.5	3803.7	170.1	45.6	24.6	17.5	12.3	8.8	8.8	7.0	7.0
60°	4766.4	3840.5	129.8	36.8	21.0	14.0	8.8	7.0	5.3	5.3	5.3
62.5°	4975.1	3863.3	100.0	29.8	17.5	10.5	7.0	5.3	3.5	1.8	1.8
65°	5157.5	3870.3	77.2	22.8	14.0	7.0	5.3	1.8	0.0	0.0	0.0
67.5°	5211.8	3789.6	59.6	17.5	10.5	5.3	3.5	0.0	0.0	0.0	0.0
70°	5064.5	3575.7	45.6	14.0	8.8	3.5	1.8	0.0	0.0	0.0	0.0
72.5°	4494.6	2998.7	35.1	8.8	7.0	3.5	1.8	0.0	0.0	0.0	0.0
75°	3216.2	1599.3	24.6	7.0	5.3	1.8	0.0	0.0	0.0	0.0	0.0
77.5°	1480.1	619.0	17.5	5.3	3.5	1.8	0.0	0.0	0.0	0.0	0.0
80°	289.4	154.3	7.0	3.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	66.6	26.3	3.5	3.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.8	8.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.8	3.5	1.8	0.0	0.0	0.0	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)