

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: P399194

Luminaire Tested: **ARCH-L-PA3-110-727-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399194
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-PA3-110-727-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 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: 10567 lumens
Efficiency: N/A
Efficacy: 93.5 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

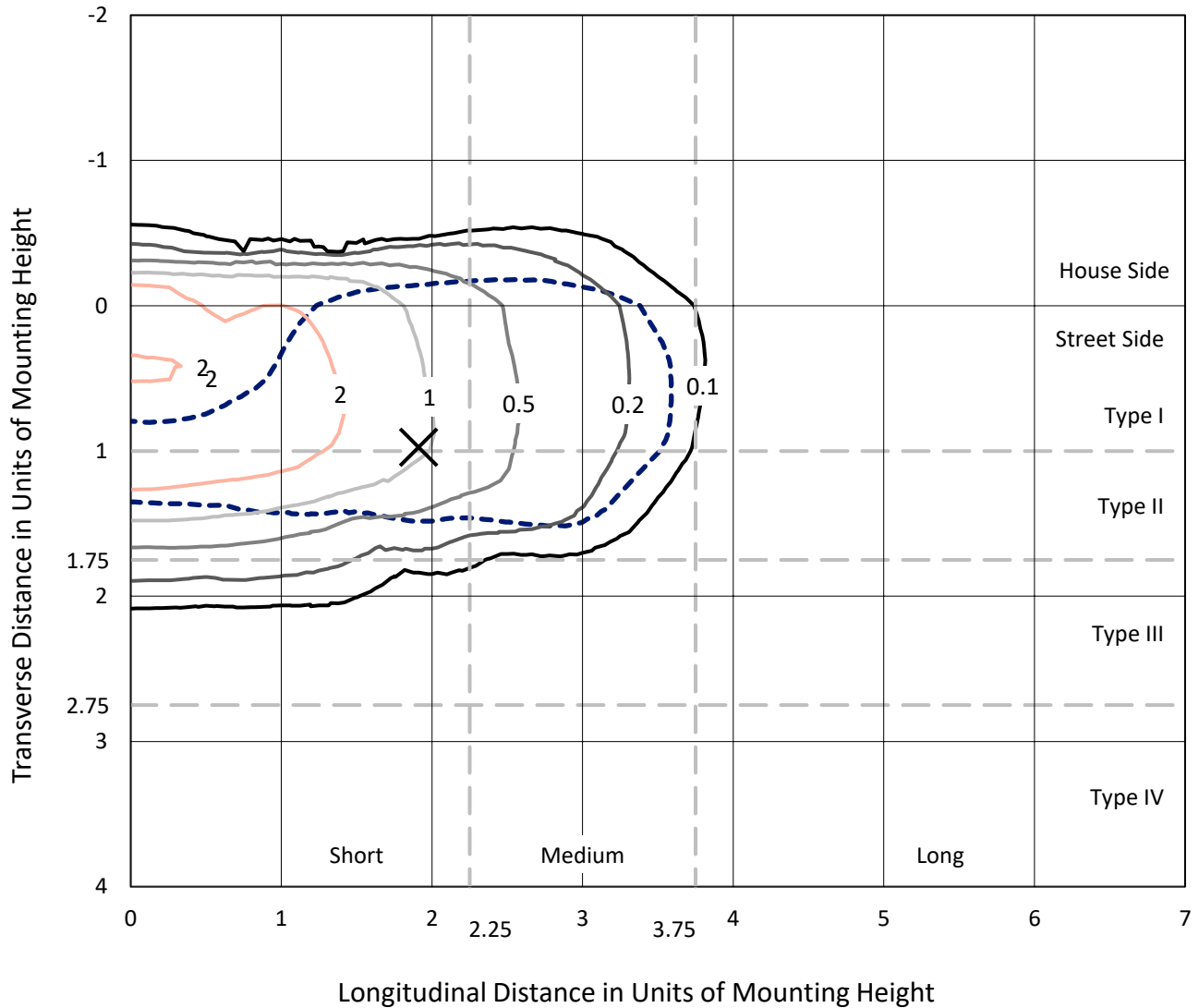
Input Watts (W): 113
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

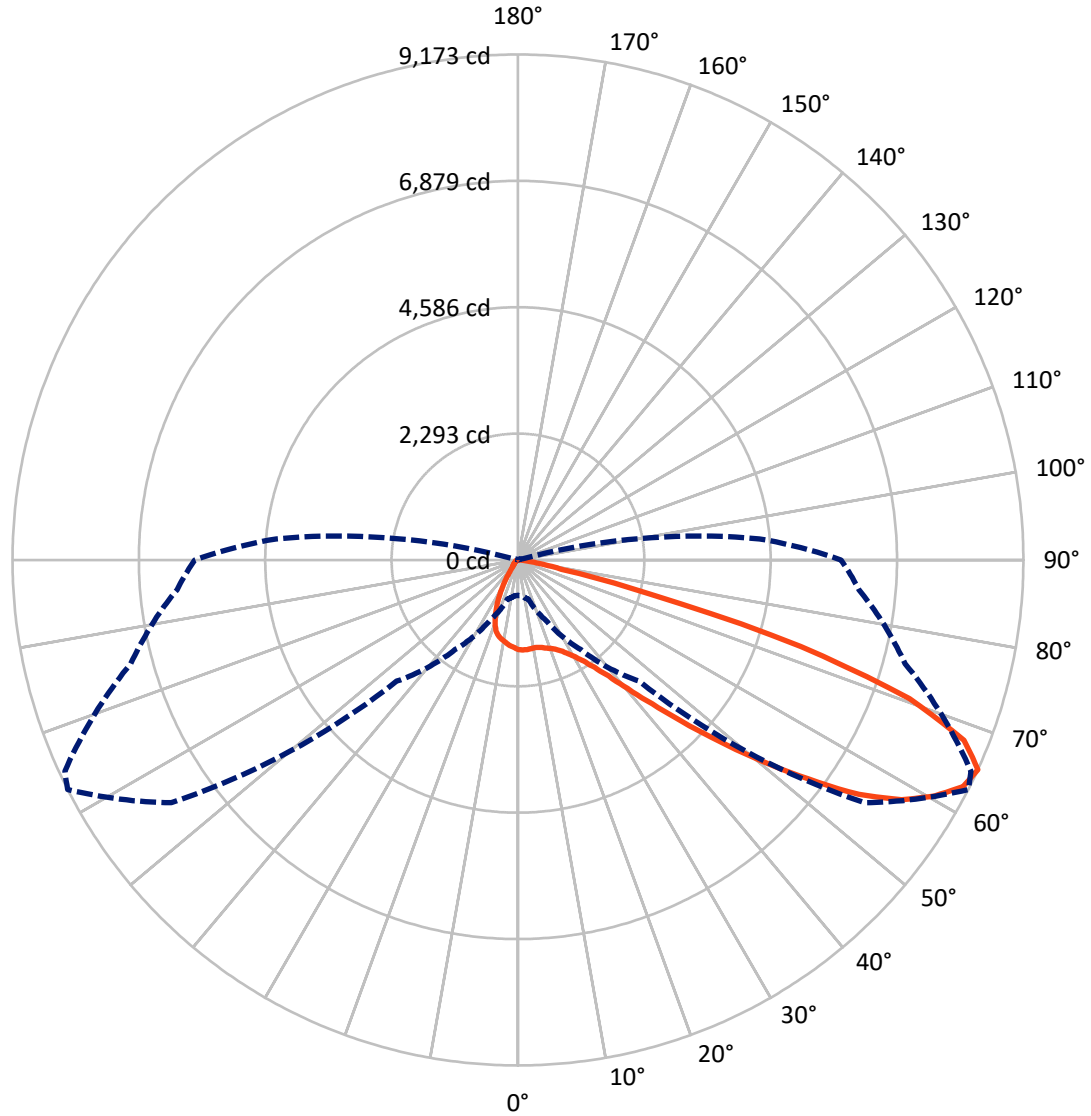
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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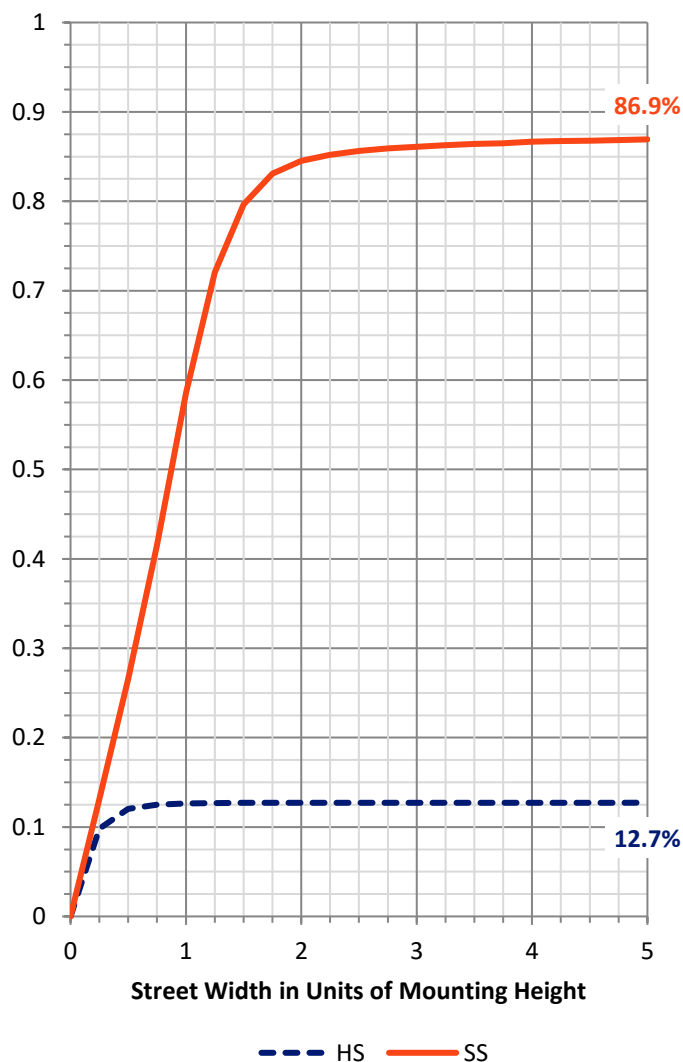
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1360.0	0.0	1360.0
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	9207.0	0.0	9207.0
	% Fixture	87.1	0.0	87.1
Total	Lumens	10567.0	0.0	10567.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	1.4
10°-20°	366.4	3.5
20°-30°	543.1	5.1
30°-40°	1008.4	9.5
40°-50°	2136.3	20.2
50°-60°	2953.9	28.0
60°-70°	2364.7	22.4
70°-80°	982.5	9.3
80°-90°	63.1	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°	10567.0	100.0
0°-180°	10567.0	100.0

Coefficient of Utilization



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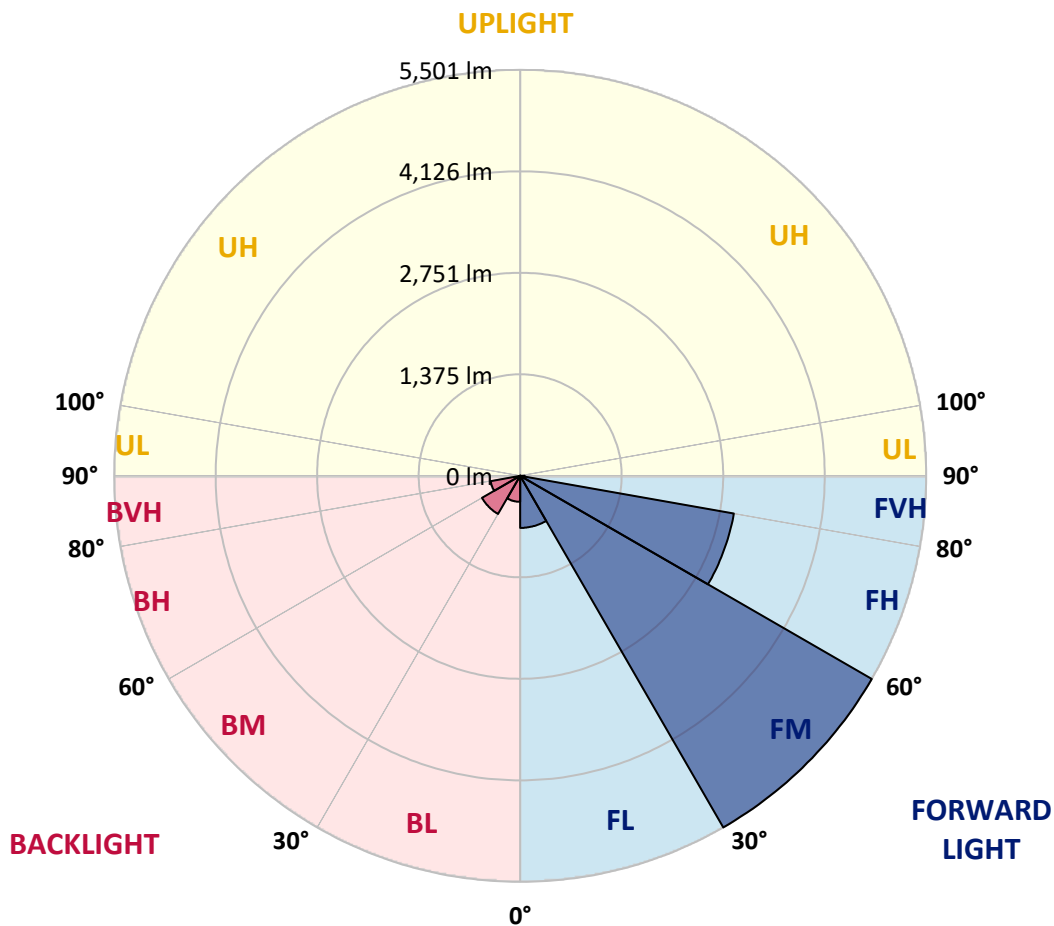
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	705.6	6.7			
FM (30°-60°)	5501.2	52.1			
FH (60°-80°)	2940.0	27.8			G2/5000
FVH (80°-90°)	60.2	0.6			G1/100
BL (0°-30°)	352.5	3.3	B1/500		
BM (30°-60°)	597.4	5.7	B1/1000		
BH (60°-80°)	407.2	3.9	B1/500		G1/500
BVH (80°-90°)	2.9	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°	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9
2.5°	1655.8	1651.8	1647.8	1645.8	1645.8	1643.8	1635.8	1633.8	1629.8	1625.9	1621.9
5°	1639.8	1633.8	1631.8	1633.8	1635.8	1639.8	1635.8	1635.8	1631.8	1627.9	1619.9
7.5°	1599.9	1595.9	1597.9	1603.9	1605.9	1619.9	1621.9	1627.9	1627.9	1623.9	1617.9
10°	1552.0	1550.1	1550.1	1560.0	1570.0	1589.9	1603.9	1619.9	1621.9	1621.9	1611.9
12.5°	1516.1	1514.1	1520.1	1532.1	1552.0	1578.0	1601.9	1625.9	1629.8	1631.8	1615.9
15°	1494.2	1494.2	1502.2	1526.1	1554.0	1589.9	1617.9	1649.8	1653.8	1651.8	1629.8
17.5°	1474.2	1476.2	1492.2	1532.1	1564.0	1611.9	1645.8	1681.7	1683.7	1681.7	1645.8
20°	1466.3	1470.3	1494.2	1546.1	1582.0	1635.8	1679.7	1715.6	1717.6	1709.6	1661.8
22.5°	1488.2	1490.2	1520.1	1576.0	1609.9	1669.7	1725.6	1759.5	1761.5	1749.5	1685.7
25°	1564.0	1564.0	1589.9	1637.8	1667.8	1727.6	1787.4	1827.3	1827.3	1813.4	1739.6
27.5°	1741.6	1725.6	1719.6	1733.6	1743.6	1807.4	1871.2	1921.1	1919.1	1899.2	1809.4
30°	2084.7	2044.8	1981.0	1909.1	1873.2	1917.1	1977.0	2040.8	2038.8	2006.9	1895.2
32.5°	2661.2	2603.4	2451.8	2262.2	2108.6	2058.8	2114.6	2184.4	2186.4	2148.5	2032.8
35°	3469.2	3377.4	3106.1	2842.8	2491.7	2302.1	2318.1	2393.9	2417.8	2397.9	2264.2
37.5°	4247.2	4163.4	3904.1	3539.0	3062.2	2675.2	2607.4	2673.2	2701.1	2701.1	2559.5
40°	5031.2	4933.4	4704.0	4336.9	3834.2	3257.7	3014.3	3068.2	3098.1	3104.1	2918.6
42.5°	5659.6	5595.7	5420.2	5134.9	4664.1	4279.1	3600.8	3570.9	3598.8	3576.9	3335.5
45°	6094.5	6044.6	5922.9	5815.2	5585.8	5392.3	4384.8	4183.3	4201.3	4125.5	3804.3
47.5°	6184.2	6128.4	6102.5	6252.1	6415.7	6463.5	5348.4	4911.5	4893.5	4726.0	4291.1
50°	5793.2	5799.2	5895.0	6321.9	7004.2	7435.1	6465.5	5733.4	5667.6	5294.5	4743.9
52.5°	4949.4	5045.1	5286.5	5978.8	7183.7	8141.3	7582.7	6605.2	6503.4	5847.1	5083.0
55°	3872.1	3995.8	4392.8	5188.8	6808.7	8456.5	8524.3	7510.9	7279.5	6262.0	5346.4
57.5°	2878.7	2916.6	3379.4	4105.5	5920.9	8147.2	9007.0	8209.1	7911.8	6593.2	5607.7
60°	1793.4	1817.4	2306.1	3126.0	4484.6	7004.2	9007.0	8689.9	8406.6	6890.4	5847.1
62.5°	1115.2	1123.1	1306.7	2142.5	3048.2	5194.8	8634.0	9062.9	8835.5	7103.9	6052.6
65°	642.4	650.3	736.1	1210.9	1982.9	3110.1	7680.4	9172.6	9070.9	7273.5	6212.2
67.5°	468.8	472.8	506.7	680.3	1296.7	1597.9	5769.3	8731.8	8859.4	7357.3	6208.2
70°	407.0	412.9	456.8	530.6	935.6	981.5	2936.5	7540.8	7897.9	7237.6	6022.7
72.5°	313.2	321.2	387.0	498.7	686.3	706.2	1063.3	5366.3	5906.9	6489.5	5513.9
75°	215.5	223.4	289.3	411.0	566.6	528.7	584.5	2469.7	3116.1	4352.9	4197.3
77.5°	137.6	139.6	181.5	299.2	488.8	375.0	401.0	805.9	1131.1	1969.0	1981.0
80°	91.8	93.8	111.7	193.5	335.1	347.1	247.4	373.0	409.0	574.5	399.0
82.5°	55.9	55.9	75.8	121.7	203.5	287.3	161.6	195.5	209.5	221.4	103.7
85°	21.9	21.9	45.9	79.8	127.7	133.7	101.7	113.7	119.7	129.7	47.9
87.5°	6.0	6.0	25.9	43.9	55.9	61.8	61.8	55.9	59.8	73.8	23.9
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°	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9
2.5°	1619.9	1613.9	1605.9	1597.9	1589.9	1584.0	1578.0	1578.0	1574.0	1568.0	1564.0
5°	1615.9	1605.9	1588.0	1574.0	1552.0	1536.1	1524.1	1514.1	1508.2	1494.2	1492.2
7.5°	1609.9	1597.9	1572.0	1544.1	1508.2	1480.2	1452.3	1432.4	1412.4	1396.4	1392.5
10°	1599.9	1586.0	1548.1	1508.2	1458.3	1406.4	1340.6	1264.8	1195.0	1155.1	1143.1
12.5°	1599.9	1582.0	1532.1	1478.2	1406.4	1278.7	1111.2	943.6	813.9	756.1	740.1
15°	1609.9	1586.0	1520.1	1446.3	1312.7	1053.3	782.0	560.6	418.9	375.0	365.1
17.5°	1619.9	1586.0	1502.2	1402.4	1141.1	764.1	444.9	295.2	249.4	239.4	239.4
20°	1623.9	1582.0	1478.2	1320.6	911.7	474.8	265.3	221.4	203.5	197.5	197.5
22.5°	1639.8	1584.0	1460.3	1202.9	662.3	279.3	209.5	185.5	167.6	161.6	161.6
25°	1679.7	1607.9	1464.3	1053.3	424.9	211.5	177.5	153.6	135.7	127.7	127.7
27.5°	1743.6	1661.8	1486.2	879.8	267.3	181.5	149.6	123.7	109.7	101.7	101.7
30°	1815.4	1721.6	1496.2	680.3	199.5	153.6	121.7	97.8	87.8	81.8	79.8
32.5°	1941.1	1825.3	1488.2	466.8	163.6	129.7	97.8	77.8	69.8	67.8	67.8
35°	2142.5	2006.9	1472.2	293.3	135.7	103.7	77.8	63.8	57.9	55.9	53.9
37.5°	2415.8	2272.2	1424.4	193.5	111.7	81.8	63.8	53.9	47.9	45.9	45.9
40°	2749.0	2575.4	1332.6	147.6	95.8	65.8	53.9	45.9	41.9	39.9	39.9
42.5°	3130.0	2912.6	1187.0	127.7	79.8	55.9	45.9	37.9	35.9	33.9	33.9
45°	3547.0	3265.7	985.5	113.7	67.8	45.9	37.9	33.9	29.9	29.9	27.9
47.5°	3989.8	3620.8	758.1	99.7	57.9	39.9	33.9	27.9	25.9	23.9	23.9
50°	4416.7	3938.0	532.6	85.8	47.9	33.9	27.9	23.9	21.9	19.9	19.9
52.5°	4718.0	4129.5	377.0	73.8	39.9	29.9	21.9	18.0	16.0	16.0	16.0
55°	4959.4	4249.2	263.3	61.8	33.9	25.9	18.0	14.0	14.0	12.0	12.0
57.5°	5186.8	4327.0	193.5	51.9	27.9	19.9	14.0	10.0	10.0	8.0	8.0
60°	5422.2	4368.9	147.6	41.9	23.9	16.0	10.0	8.0	6.0	6.0	6.0
62.5°	5659.6	4394.8	113.7	33.9	19.9	12.0	8.0	6.0	4.0	2.0	2.0
65°	5867.1	4402.8	87.8	25.9	16.0	8.0	6.0	2.0	0.0	0.0	0.0
67.5°	5928.9	4311.0	67.8	19.9	12.0	6.0	4.0	0.0	0.0	0.0	0.0
70°	5761.3	4067.6	51.9	16.0	10.0	4.0	2.0	0.0	0.0	0.0	0.0
72.5°	5113.0	3411.3	39.9	10.0	8.0	4.0	2.0	0.0	0.0	0.0	0.0
75°	3658.7	1819.4	27.9	8.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	1683.7	704.2	19.9	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	329.2	175.6	8.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	75.8	29.9	4.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.9	10.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.0	4.0	2.0	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)