

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: P399315

Luminaire Tested: **ARCH-L-PA3-120-827-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-120-827-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10445 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

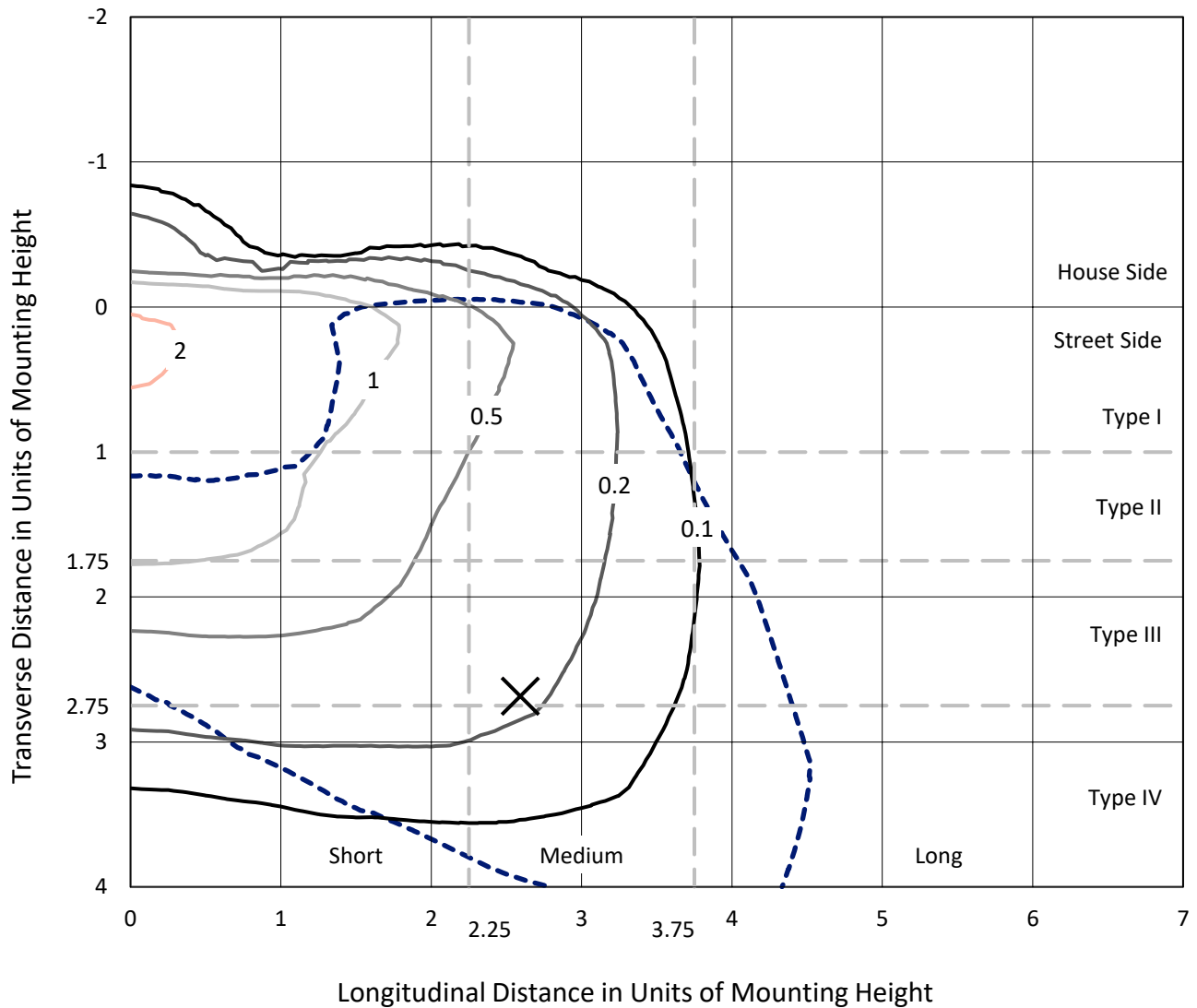
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

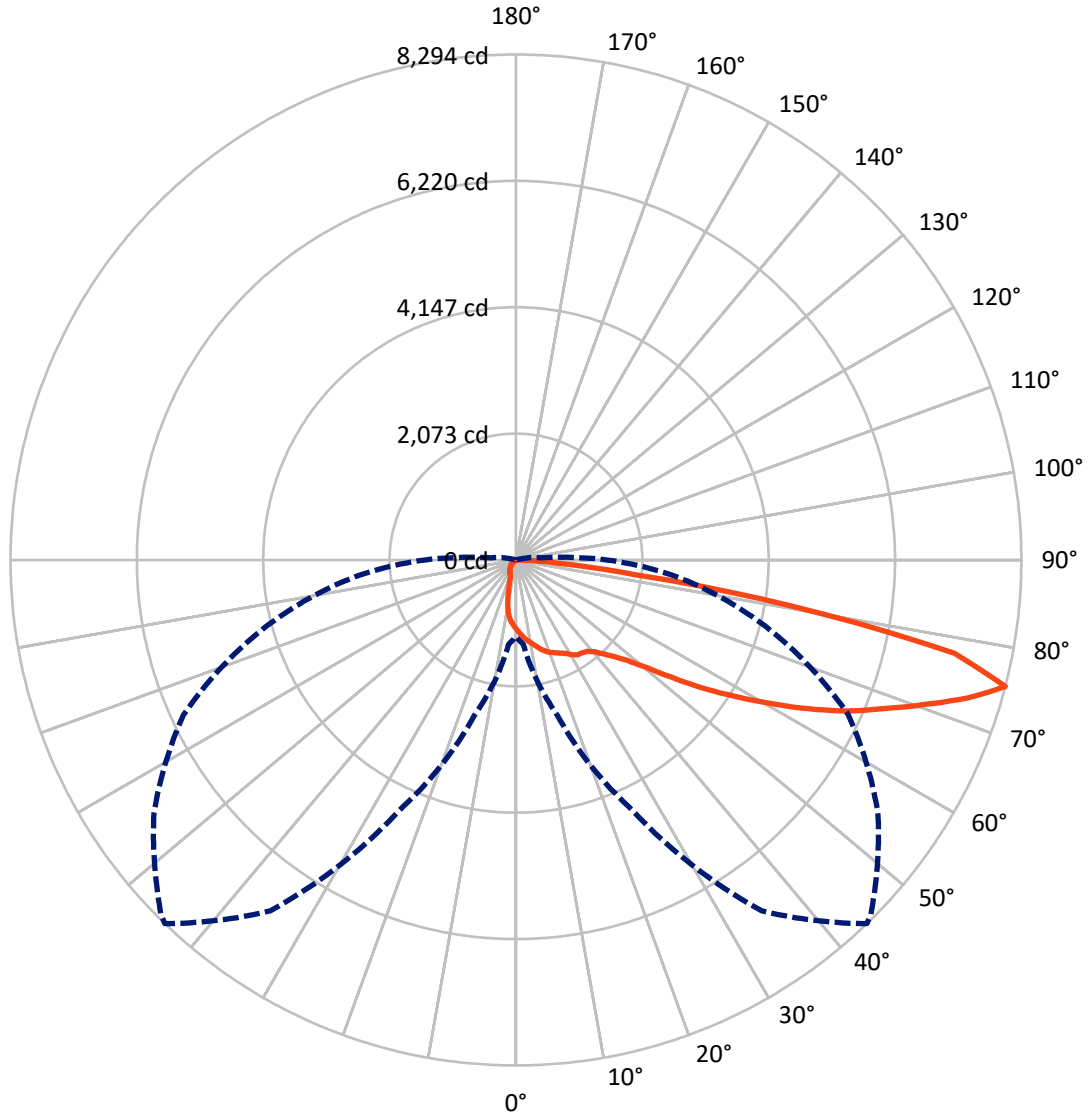
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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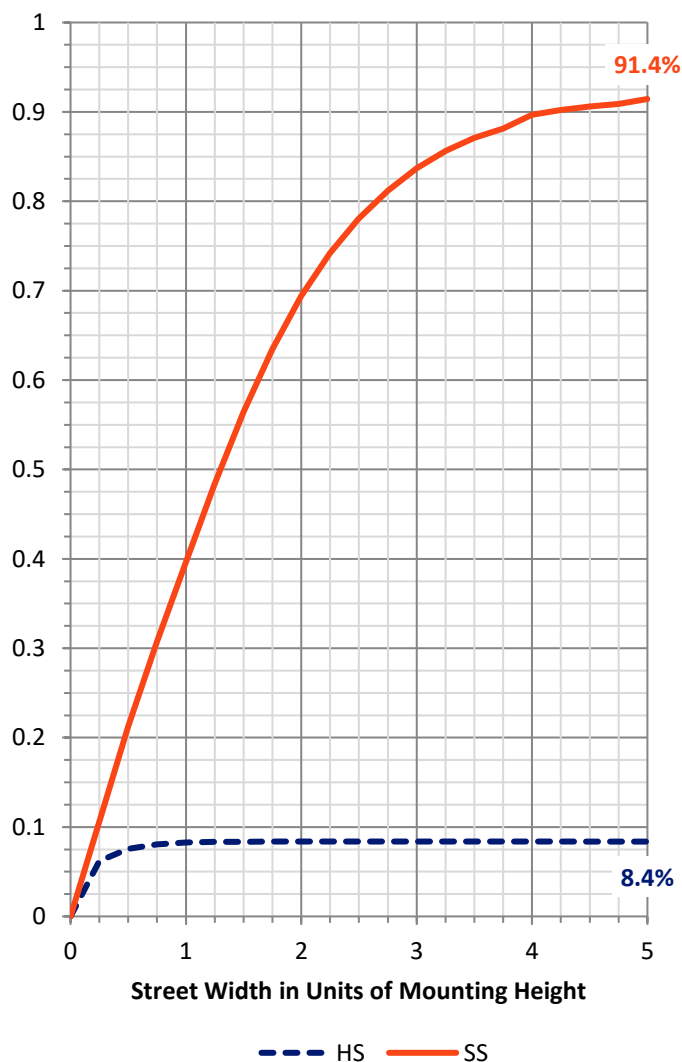
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	880.8	0.0	880.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	9564.1	0.0	9564.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	10445.0	0.0	10445.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	1.0
10°-20°	300.4	2.9
20°-30°	495.8	4.7
30°-40°	719.6	6.9
40°-50°	1169.8	11.2
50°-60°	2062.2	19.7
60°-70°	2963.8	28.4
70°-80°	2373.3	22.7
80°-90°	252.9	2.4
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°	10445.0	100.0
0°-180°	10445.0	100.0

Coefficient of Utilization



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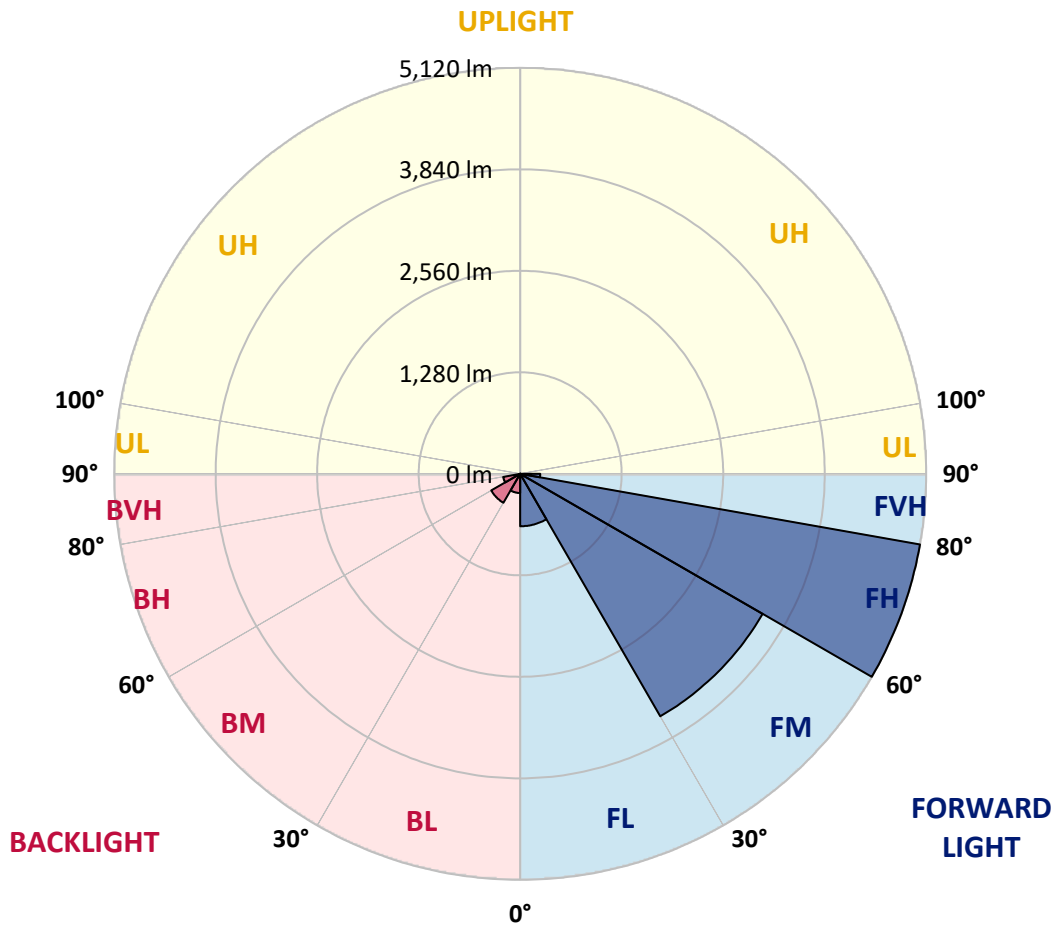
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	661.5	6.3			
FM (30°-60°)	3530.5	33.8			
FH (60°-80°)	5120.0	49.0			G3/7500
FVH (80°-90°)	252.2	2.4			G3/500
BL (0°-30°)	242.0	2.3	B1/500		
BM (30°-60°)	421.1	4.0	B1/1000		
BH (60°-80°)	217.1	2.1	B1/500		G1/500
BVH (80°-90°)	0.6	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-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9
2.5°	1239.0	1237.1	1231.3	1221.7	1212.0	1202.4	1200.5	1185.1	1167.7	1154.2	1142.7
5°	1348.9	1346.9	1337.3	1316.1	1294.9	1269.9	1267.9	1231.3	1198.6	1161.9	1131.1
7.5°	1462.6	1458.7	1441.4	1408.6	1372.0	1333.4	1329.6	1275.6	1227.5	1179.3	1135.0
10°	1551.2	1547.3	1522.3	1483.7	1433.6	1385.5	1379.7	1323.8	1275.6	1214.0	1154.2
12.5°	1637.9	1630.2	1597.4	1555.0	1493.4	1447.1	1441.4	1383.5	1325.7	1262.2	1188.9
15°	1718.8	1709.2	1678.4	1624.4	1558.9	1514.6	1510.7	1449.1	1389.3	1316.1	1235.2
17.5°	1774.7	1770.9	1734.3	1674.5	1610.9	1574.3	1570.5	1506.9	1447.1	1370.1	1283.3
20°	1803.6	1803.6	1768.9	1703.4	1645.6	1620.6	1614.8	1555.0	1497.2	1424.0	1333.4
22.5°	1809.4	1815.2	1788.2	1716.9	1674.5	1653.3	1649.5	1597.4	1541.6	1474.1	1389.3
25°	1821.0	1821.0	1807.5	1730.4	1699.6	1693.8	1691.9	1645.6	1595.5	1528.1	1445.2
27.5°	1834.5	1834.5	1824.8	1749.7	1738.1	1736.2	1734.3	1713.1	1672.6	1593.6	1510.7
30°	1869.1	1871.1	1863.4	1788.2	1780.5	1801.7	1805.5	1794.0	1743.9	1645.6	1578.2
32.5°	1955.9	1938.5	1917.3	1815.2	1828.7	1855.6	1857.6	1834.5	1780.5	1701.5	1659.1
35°	2173.6	2071.5	1975.1	1838.3	1844.1	1871.1	1874.9	1873.0	1840.2	1772.8	1751.6
37.5°	2375.9	2231.4	2094.6	1892.3	1873.0	1901.9	1909.6	1942.4	1917.3	1871.1	1876.8
40°	2493.5	2437.6	2341.2	2040.6	1930.8	1975.1	1982.8	2032.9	2023.3	2004.0	2040.6
42.5°	2855.7	2859.6	2755.5	2262.2	2036.8	2108.1	2117.7	2158.2	2171.7	2181.3	2269.9
45°	3275.8	3289.3	3264.2	2661.1	2237.2	2260.3	2273.8	2327.8	2377.9	2439.5	2601.4
47.5°	3780.7	3769.1	3676.6	3148.6	2586.0	2456.9	2466.5	2570.5	2657.3	2792.1	3023.4
50°	4227.7	4256.6	4081.3	3603.4	3077.3	2767.1	2757.5	2859.6	3015.7	3204.5	3495.5
52.5°	4678.6	4636.2	4399.2	4054.3	3659.3	3189.1	3160.2	3216.1	3435.7	3659.3	3957.9
55°	4798.1	4802.0	4721.0	4547.6	4144.9	3701.7	3653.5	3649.6	3923.3	4075.5	4443.5
57.5°	5033.2	5042.8	5062.1	5096.8	4906.0	4214.2	4164.1	4110.2	4376.1	4464.7	4931.1
60°	5272.1	5283.7	5401.2	5588.1	5461.0	4767.3	4713.3	4586.1	4734.5	4854.0	5443.6
62.5°	5241.3	5322.2	5663.3	6035.2	6019.8	5374.3	5306.8	5000.4	5094.8	5198.9	5913.8
65°	4732.6	4819.3	5586.2	6158.5	6580.5	5973.5	5863.7	5428.2	5434.0	5559.2	6366.6
67.5°	4277.8	4372.2	5104.5	6106.5	6950.5	6511.2	6397.5	5857.9	5767.4	5975.5	6609.4
70°	4015.8	4110.2	4721.0	5944.6	7054.6	7106.6	7008.3	6349.3	6164.3	6355.1	6337.7
72.5°	3142.9	3291.2	4231.6	5636.3	7166.3	7744.4	7667.3	6971.7	6501.5	5958.1	4825.1
75°	1252.5	1389.3	2641.8	4536.0	7025.6	8293.6	8233.8	7251.1	6017.9	4254.7	2470.3
77.5°	377.7	404.7	734.2	2243.0	5150.7	7353.2	7334.0	6096.9	4258.6	1975.1	674.4
80°	125.3	138.7	225.5	618.5	2350.9	4593.8	4680.6	3884.7	1934.7	452.8	136.8
82.5°	52.0	57.8	113.7	248.6	832.4	1979.0	1950.1	1740.0	674.4	281.3	50.1
85°	13.5	17.3	52.0	142.6	304.5	682.1	716.8	583.9	381.5	233.2	15.4
87.5°	0.0	0.0	25.1	57.8	136.8	206.2	215.8	177.3	215.8	175.4	7.7
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°	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9
2.5°	1133.0	1123.4	1106.1	1094.5	1079.1	1075.2	1067.5	1057.9	1056.0	1046.3	1048.3
5°	1113.8	1098.4	1067.5	1046.3	1021.3	1013.6	1000.1	990.5	982.7	969.3	971.2
7.5°	1109.9	1086.8	1044.4	1003.9	963.5	934.6	894.1	861.3	834.4	805.5	811.2
10°	1123.4	1094.5	1034.8	978.9	905.7	813.2	707.2	637.8	603.1	568.4	572.3
12.5°	1150.4	1115.7	1038.6	953.8	805.5	647.5	501.0	406.6	381.5	366.1	368.0
15°	1190.9	1148.5	1050.2	905.7	670.6	468.2	333.4	292.9	302.5	308.3	308.3
17.5°	1233.2	1185.1	1059.8	819.0	518.3	327.6	271.7	267.8	281.3	294.8	294.8
20°	1285.3	1223.6	1061.7	709.1	373.8	265.9	256.3	256.3	265.9	281.3	281.3
22.5°	1335.4	1266.0	1044.4	583.9	285.2	246.6	246.6	246.6	252.4	267.8	269.8
25°	1395.1	1318.0	1007.8	450.9	244.7	235.1	235.1	237.0	240.9	254.4	256.3
27.5°	1458.7	1372.0	946.1	329.5	223.5	221.6	223.5	225.5	227.4	240.9	244.7
30°	1531.9	1431.7	867.1	246.6	204.3	204.3	210.0	213.9	213.9	225.5	229.3
32.5°	1616.7	1510.7	772.7	204.3	185.0	183.1	192.7	198.5	198.5	208.1	212.0
35°	1722.7	1591.7	659.0	181.1	169.6	165.7	169.6	179.2	183.1	190.8	192.7
37.5°	1863.4	1688.0	537.6	167.6	158.0	150.3	150.3	152.2	159.9	167.6	169.6
40°	2042.6	1794.0	418.1	158.0	146.4	138.7	133.0	131.0	129.1	134.9	138.7
42.5°	2268.0	1913.5	312.2	148.4	136.8	125.3	117.5	109.8	100.2	98.3	100.2
45°	2557.1	2059.9	231.2	140.7	131.0	113.7	100.2	86.7	69.4	63.6	65.5
47.5°	2898.1	2212.1	181.1	133.0	127.2	100.2	82.9	59.7	42.4	38.5	40.5
50°	3260.4	2358.6	154.2	123.3	119.5	86.7	59.7	36.6	25.1	25.1	27.0
52.5°	3568.7	2441.4	140.7	115.6	107.9	71.3	38.5	21.2	15.4	15.4	17.3
55°	3867.4	2485.8	131.0	107.9	92.5	50.1	21.2	13.5	9.6	9.6	9.6
57.5°	4175.7	2505.0	119.5	98.3	73.2	30.8	11.6	7.7	5.8	5.8	5.8
60°	4449.3	2468.4	102.1	80.9	48.2	15.4	5.8	5.8	3.9	1.9	1.9
62.5°	4678.6	2399.0	71.3	57.8	28.9	7.7	3.9	1.9	0.0	0.0	0.0
65°	4819.3	2287.3	46.2	38.5	17.3	5.8	1.9	0.0	0.0	0.0	0.0
67.5°	4778.8	2077.2	28.9	25.1	7.7	3.9	1.9	0.0	0.0	0.0	0.0
70°	4312.5	1703.4	21.2	15.4	5.8	1.9	0.0	0.0	0.0	0.0	0.0
72.5°	3108.2	1152.3	15.4	9.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	1495.3	410.4	9.6	7.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	366.1	90.6	5.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	80.9	17.3	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	27.0	7.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	1.9	0.0	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)