

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: P265611

Luminaire Tested: **ARCH-L-AF72-130-D-U-T2U-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265611
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-AF72-130-D-U-T2U-7027-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 575mA 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: 10672.6 lumens
Efficiency: N/A
Efficacy: 80.2 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): 133
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

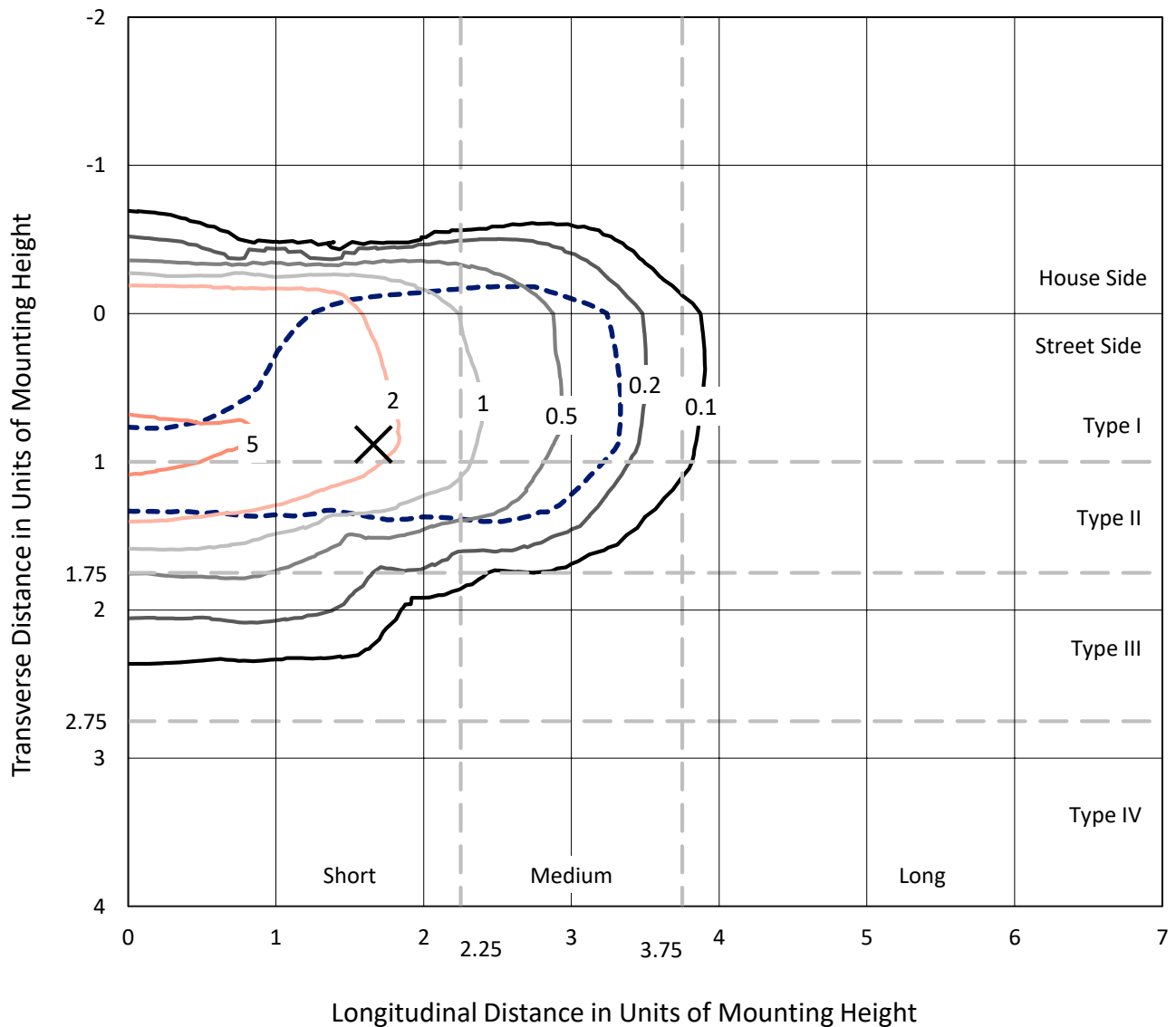


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

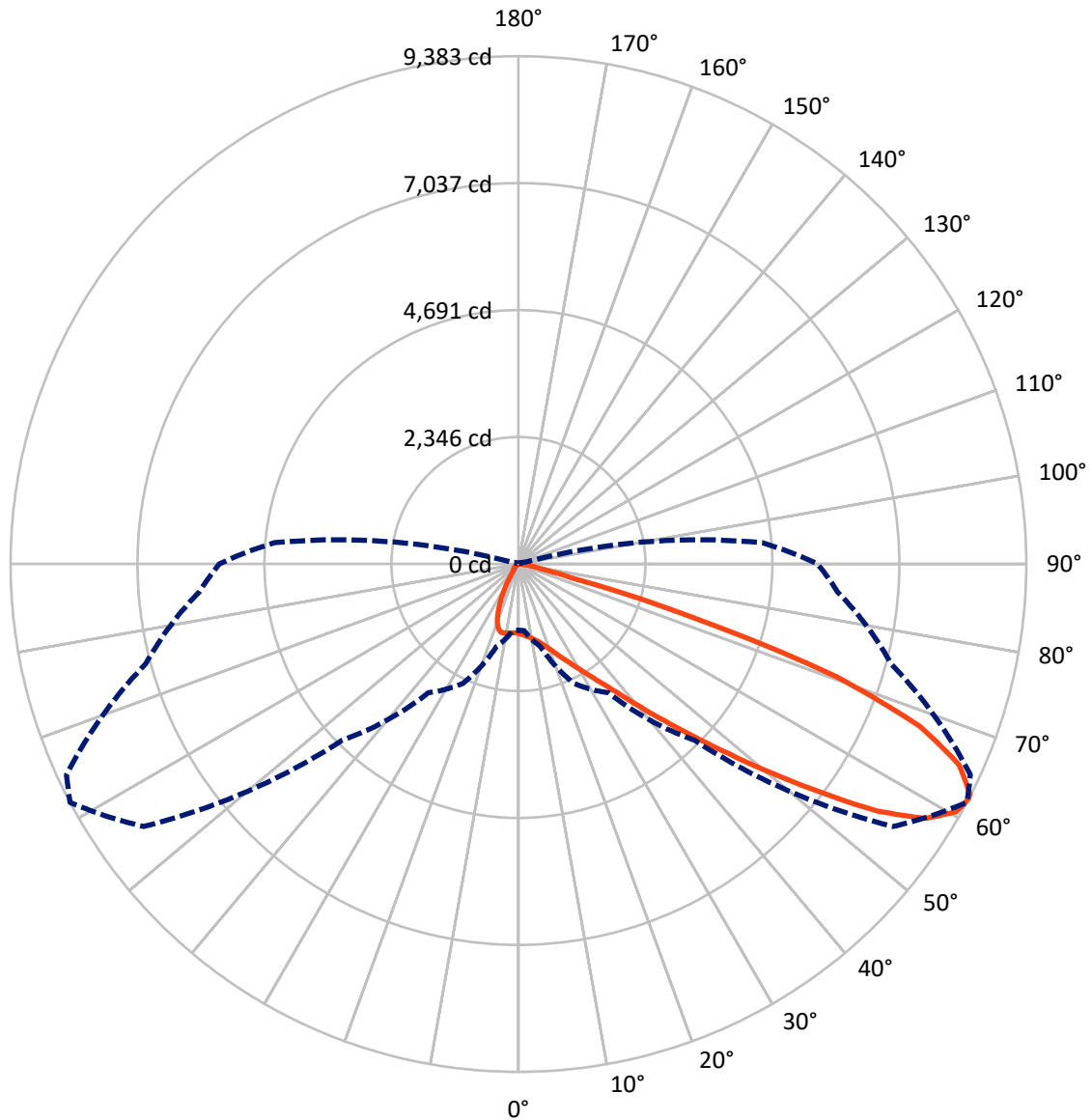


Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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



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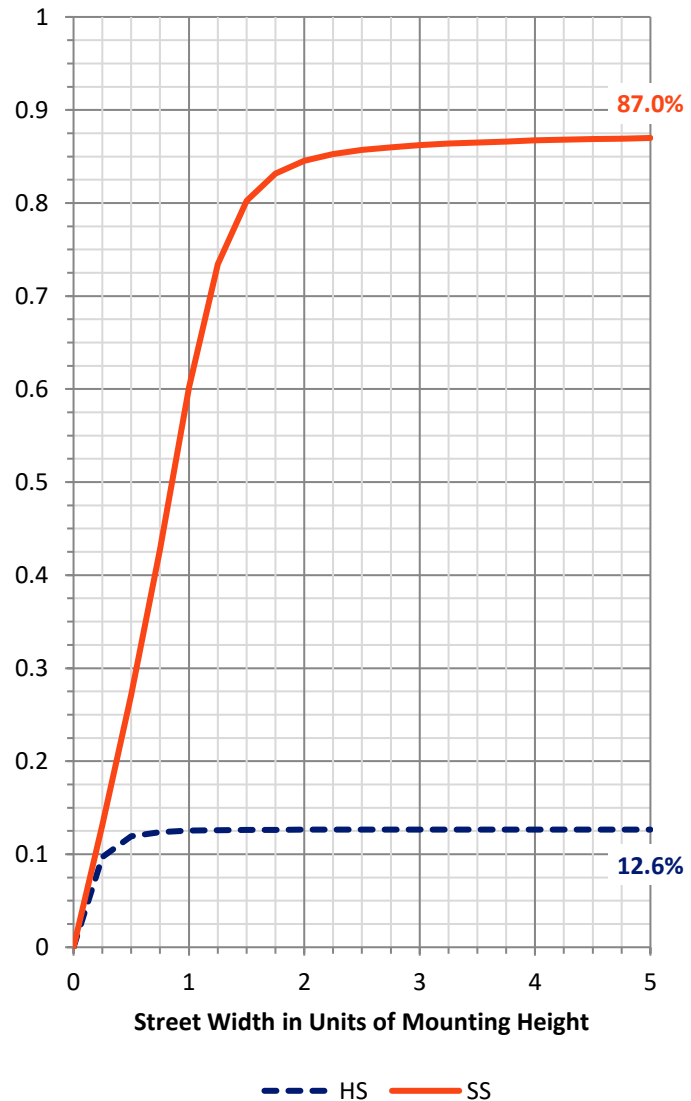
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1364.6	0.0	1364.6
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	9308.0	0.0	9308.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	10672.6	0.0	10672.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	1.2
10°-20°	345.5	3.2
20°-30°	580.3	5.4
30°-40°	1112.3	10.4
40°-50°	2271.9	21.3
50°-60°	3006.5	28.2
60°-70°	2335.6	21.9
70°-80°	843.0	7.9
80°-90°	53.7	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°	10672.6	100.0
0°-180°	10672.6	100.0



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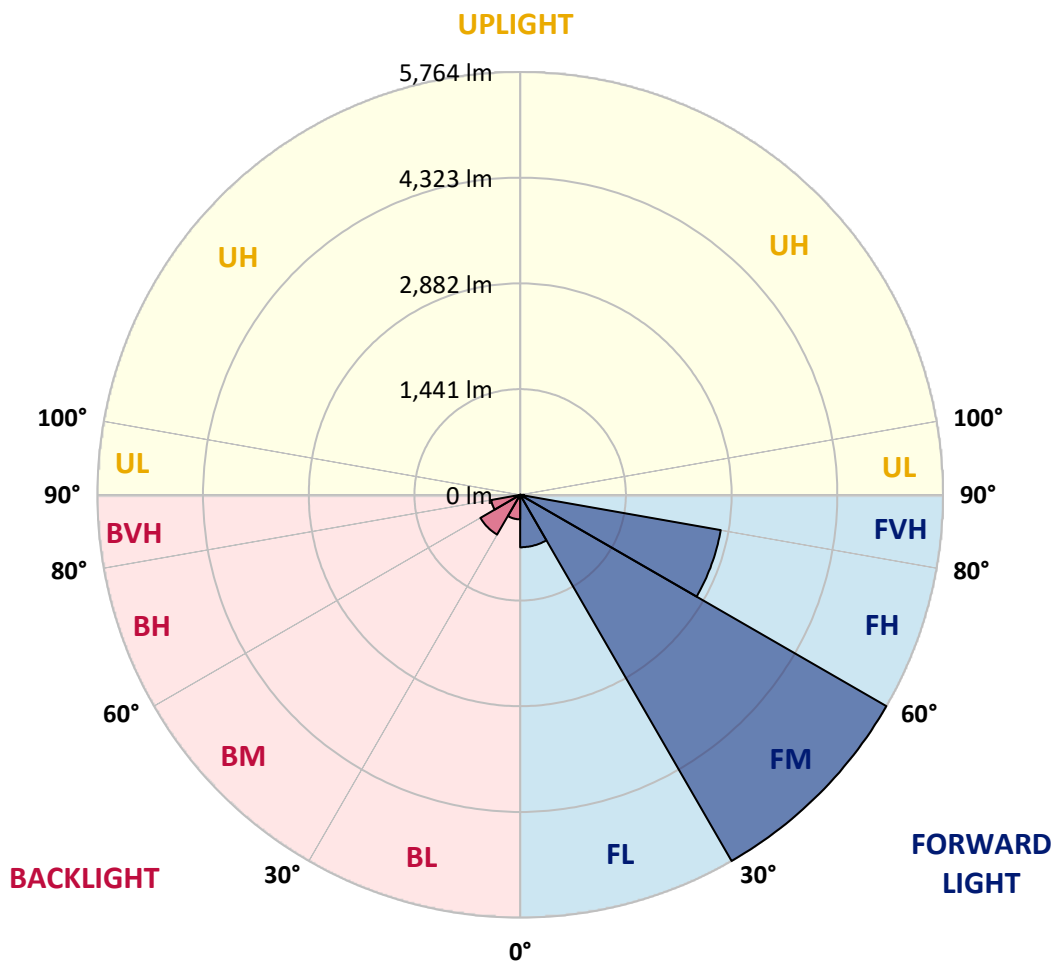
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	715.5	6.7			
FM	(30°-60°)	5764.3	54.0			
FH	(60°-80°)	2776.8	26.0			G2/5000
FVH	(80°-90°)	51.4	0.5			G1/100
BL	(0°-30°)	334.0	3.1	B1/500		
BM	(30°-60°)	626.5	5.9	B1/1000		
BH	(60°-80°)	401.8	3.8	B1/500		G1/500
BVH	(80°-90°)	2.3	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°	62°	65°	75°	85°
0°	1285.7	1285.7	1285.7	1285.7	1285.7	1285.7	1285.7	1285.7	1285.7	1285.7	1285.7
2.5°	1319.8	1317.2	1314.5	1311.9	1311.9	1309.3	1306.7	1301.5	1296.2	1291.0	1288.3
5°	1343.3	1340.8	1338.1	1340.8	1338.1	1338.1	1335.5	1330.3	1325.0	1317.2	1309.3
7.5°	1361.7	1359.1	1356.5	1359.1	1361.7	1364.3	1367.0	1361.7	1359.1	1348.6	1340.8
10°	1385.4	1382.8	1380.2	1385.4	1385.4	1398.5	1401.0	1398.5	1395.8	1388.1	1374.9
12.5°	1419.5	1422.0	1422.0	1427.3	1432.5	1448.3	1453.5	1445.7	1445.7	1435.2	1419.5
15°	1482.5	1482.5	1482.5	1487.8	1490.3	1511.3	1516.6	1508.7	1514.0	1495.6	1479.8
17.5°	1542.7	1545.4	1550.7	1561.2	1561.2	1579.5	1590.0	1590.0	1600.5	1577.0	1556.0
20°	1603.1	1605.8	1613.6	1637.3	1637.3	1660.8	1679.2	1687.0	1697.5	1674.0	1637.3
22.5°	1668.7	1668.7	1681.8	1718.5	1710.7	1758.0	1792.1	1805.1	1815.7	1784.2	1726.5
25°	1768.5	1758.0	1768.5	1802.5	1797.2	1862.8	1925.8	1939.0	1952.0	1915.4	1828.8
27.5°	1957.3	1941.5	1904.9	1907.6	1907.6	1983.5	2072.7	2091.2	2099.0	2067.5	1960.0
30°	2335.1	2335.1	2198.7	2107.0	2046.6	2114.8	2240.7	2272.3	2282.8	2235.4	2093.8
32.5°	2993.7	2993.7	2741.8	2508.3	2280.1	2280.1	2424.3	2482.0	2492.5	2437.6	2272.3
35°	3833.3	3828.0	3450.3	3130.1	2684.1	2516.2	2639.5	2736.5	2768.0	2694.6	2503.0
37.5°	4725.4	4691.4	4284.6	3917.2	3306.0	2894.0	2930.8	3059.4	3088.3	3027.8	2802.3
40°	5449.6	5410.2	5082.3	4775.3	4108.8	3497.6	3350.6	3468.6	3502.9	3418.8	3159.0
42.5°	6105.6	6008.5	5782.7	5562.5	5032.5	4541.8	3909.5	3956.7	3993.4	3904.3	3560.5
45°	6580.4	6430.8	6315.4	6247.3	5966.5	5688.3	4633.5	4539.1	4552.3	4442.1	3998.6
47.5°	6593.6	6488.6	6499.1	6677.6	6793.1	6782.6	5575.6	5239.8	5189.9	5006.2	4465.7
50°	5963.8	6024.3	6215.7	6724.8	7349.3	7727.1	6696.0	6068.8	5919.3	5588.6	4930.1
52.5°	4914.4	5008.8	5368.4	6226.2	7430.6	8348.8	7858.3	7016.0	6748.3	6165.8	5287.0
55°	3849.1	3854.4	4232.2	5105.8	6887.5	8461.8	8787.1	8057.6	7648.3	6604.1	5523.0
57.5°	2647.5	2791.8	3271.8	3859.6	5662.1	7900.2	9136.0	8865.8	8338.3	6874.3	5688.3
60°	1734.3	1742.3	2301.1	2980.7	3854.4	6428.4	8923.6	9293.4	8897.3	7034.4	5801.3
62°	1222.8	1235.8	1582.2	2434.9	2904.5	4607.3	8453.9	9382.6	9212.1	7128.8	5919.3
62.5°	1133.5	1144.0	1435.2	2298.5	2728.7	4132.5	8286.0	9361.6	9259.4	7160.3	5961.2
65°	831.7	831.7	939.3	1579.5	1999.4	2232.8	7021.2	8944.6	9196.4	7412.3	6118.6
67.5°	642.8	648.0	684.8	973.5	1508.7	1353.8	4481.5	8005.2	8540.5	7784.8	6207.8
70°	553.6	551.0	577.3	645.4	1088.8	899.9	1973.0	6247.3	7152.5	7690.3	6126.5
72.5°	409.3	412.0	472.2	566.7	758.3	585.1	892.0	3316.5	4638.8	6019.0	5250.2
75°	262.3	265.0	333.2	446.1	545.7	383.0	514.3	989.2	1899.6	3337.5	3211.5
77.5°	175.8	181.1	217.7	312.3	477.4	238.8	322.8	414.6	572.0	1251.6	1151.8
80°	118.0	118.0	139.1	209.9	301.7	199.5	173.2	275.5	296.5	388.2	194.2
82.5°	78.7	78.7	91.8	139.1	196.8	178.5	104.9	149.6	173.2	194.2	68.2
85°	47.3	47.3	63.1	86.5	128.5	99.7	68.2	83.9	89.2	123.2	36.7
87.5°	28.8	26.2	42.0	60.4	68.2	60.4	44.6	44.6	47.3	68.2	18.3
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°	1285.7	1285.7	1285.7	1285.7	1285.7	1285.7	1285.7	1285.7	1285.7	1285.7	1285.7
2.5°	1283.0	1280.4	1277.7	1272.4	1264.6	1259.5	1254.2	1249.0	1243.7	1243.7	1251.6
5°	1306.7	1298.8	1288.3	1277.7	1262.1	1251.6	1243.7	1233.2	1228.0	1228.0	1230.6
7.5°	1335.5	1327.7	1309.3	1291.0	1267.2	1249.0	1230.6	1207.0	1188.5	1180.7	1188.5
10°	1367.0	1356.5	1330.3	1301.5	1275.1	1228.0	1167.5	1094.1	1031.2	1002.2	1015.4
12.5°	1406.3	1393.2	1361.7	1322.3	1262.1	1146.5	997.1	826.5	719.0	669.1	679.6
15°	1464.1	1445.7	1401.0	1340.8	1207.0	957.8	713.7	516.9	417.3	375.2	380.4
17.5°	1532.2	1508.7	1448.3	1335.5	1065.3	690.1	425.1	301.7	259.8	249.3	249.3
20°	1605.8	1574.3	1495.6	1296.2	850.1	433.0	265.0	231.0	215.1	207.2	207.2
22.5°	1681.8	1639.9	1534.9	1204.3	606.0	270.2	217.7	194.2	175.8	168.0	168.0
25°	1773.7	1718.5	1574.3	1044.3	385.7	217.7	186.3	162.7	144.3	133.8	136.5
27.5°	1881.3	1810.4	1608.3	844.9	249.3	189.0	154.8	131.2	115.4	110.2	110.2
30°	1994.1	1910.2	1616.3	632.3	201.9	162.7	128.5	107.5	97.0	91.8	91.8
32.5°	2148.8	2038.8	1592.7	419.8	170.6	136.5	107.5	89.2	81.3	78.7	78.7
35°	2353.5	2206.5	1537.5	259.8	144.3	112.8	89.2	78.7	70.8	68.2	68.2
37.5°	2613.3	2440.2	1440.4	178.5	123.2	91.8	76.0	68.2	63.1	60.4	60.4
40°	2959.6	2723.5	1314.5	154.8	104.9	78.7	65.5	60.4	55.1	55.1	55.1
42.5°	3327.0	3067.3	1151.8	136.5	89.2	68.2	57.8	52.6	49.9	47.3	47.3
45°	3728.4	3418.8	949.8	120.7	76.0	60.4	52.6	44.6	42.0	42.0	42.0
47.5°	4127.3	3780.8	729.5	104.9	65.5	52.6	44.6	39.3	36.7	34.1	34.1
50°	4536.5	4108.8	535.3	91.8	57.8	47.3	39.3	34.1	28.8	26.2	26.2
52.5°	4833.1	4305.7	390.9	78.7	49.9	39.3	31.5	26.2	21.0	18.3	18.3
55°	5050.8	4426.4	286.0	65.5	44.6	34.1	26.2	21.0	15.7	15.7	13.1
57.5°	5221.4	4484.1	215.1	57.8	39.3	28.8	21.0	15.7	13.1	10.5	10.5
60°	5352.6	4486.7	160.1	47.3	34.1	23.6	15.7	10.5	7.8	7.8	7.8
62°	5525.7	4520.8	131.2	39.3	31.5	21.0	13.1	7.8	5.2	2.6	2.6
62.5°	5575.6	4533.9	125.9	39.3	28.8	18.3	10.5	7.8	5.2	2.6	2.6
65°	5806.5	4557.6	97.0	31.5	23.6	15.7	7.8	5.2	0.0	0.0	0.0
67.5°	6016.4	4520.8	70.8	23.6	18.3	10.5	7.8	2.6	0.0	0.0	0.0
70°	5995.4	4268.9	49.9	15.7	13.1	7.8	5.2	0.0	0.0	0.0	0.0
72.5°	4940.6	3195.8	34.1	13.1	7.8	5.2	2.6	0.0	0.0	0.0	0.0
75°	2983.2	1398.5	23.6	7.8	7.8	5.2	2.6	0.0	0.0	0.0	0.0
77.5°	978.7	506.4	15.7	5.2	5.2	2.6	2.6	0.0	0.0	0.0	0.0
80°	160.1	83.9	7.8	5.2	5.2	2.6	2.6	0.0	0.0	0.0	0.0
82.5°	49.9	21.0	5.2	5.2	2.6	2.6	0.0	0.0	0.0	0.0	0.0
85°	18.3	7.8	5.2	5.2	2.6	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	5.2	5.2	5.2	2.6	2.6	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)