

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: P265602

Luminaire Tested: **ARCH-L-AF72-120-D-U-T2U-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265602
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-AF72-120-D-U-T2U-7027-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 530mA 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: 9958.1 lumens
Efficiency: N/A
Efficacy: 81.0 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): 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

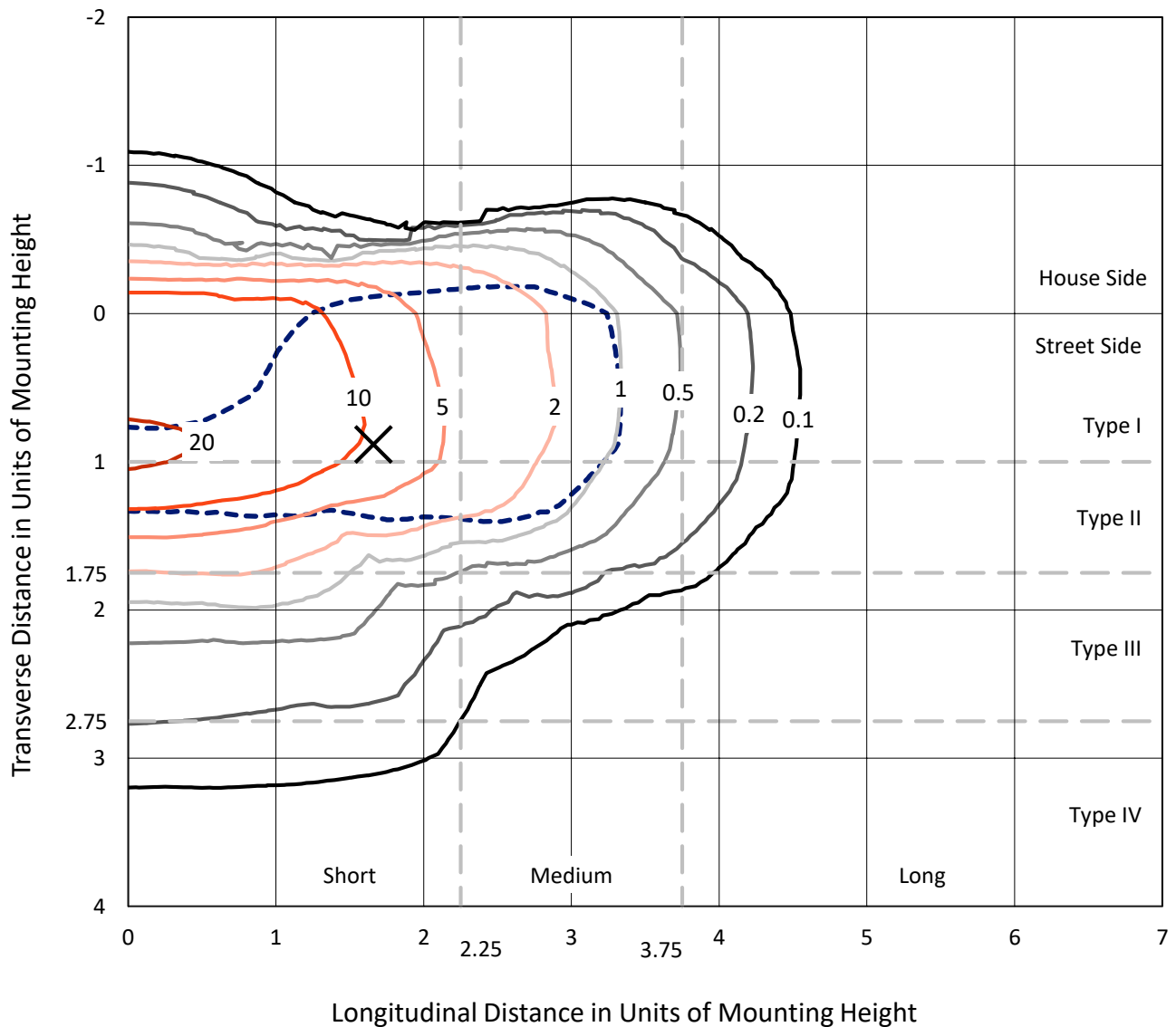


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

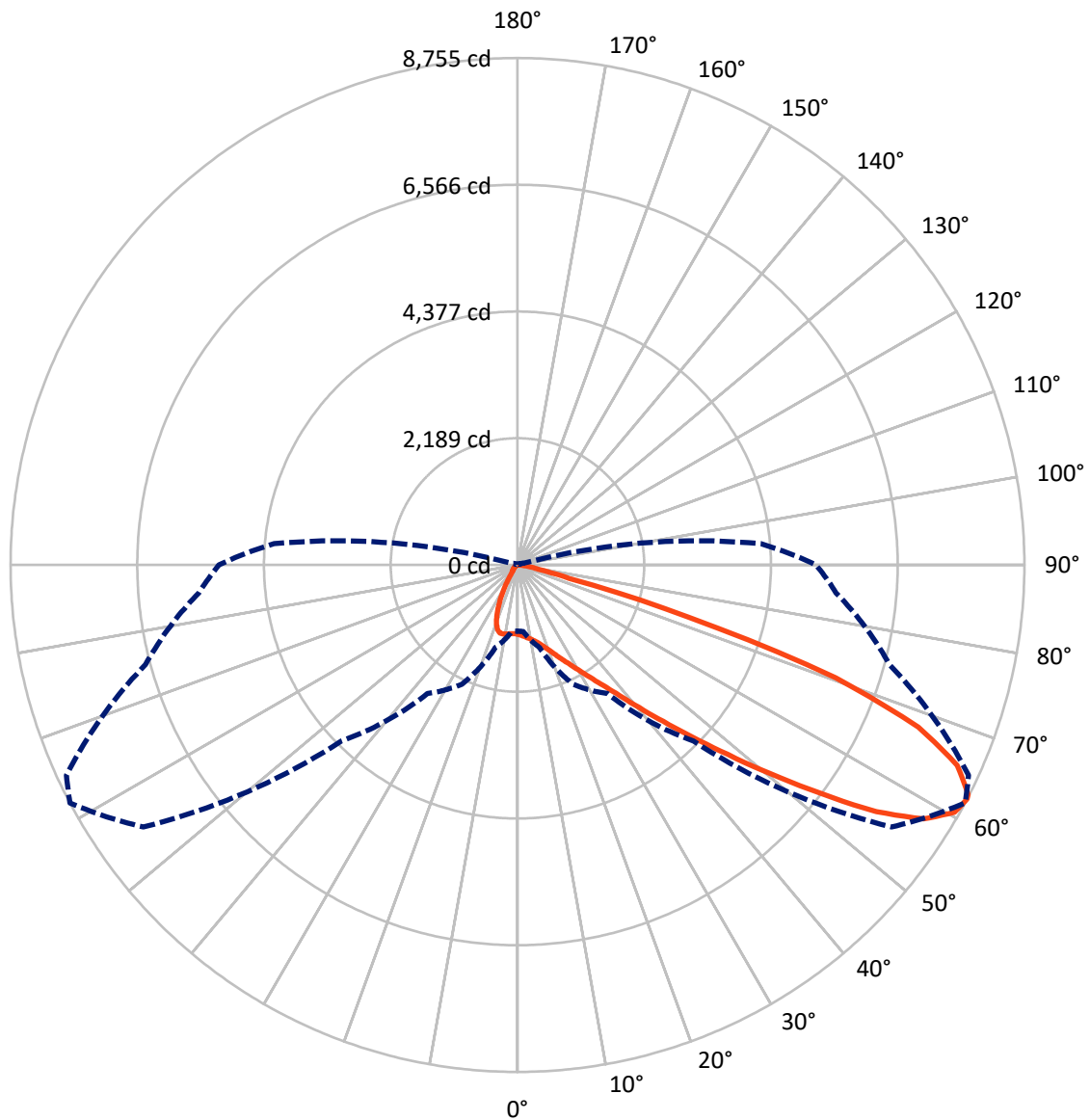


Based on 10 foot mounting height. Maximum calculated value = 22.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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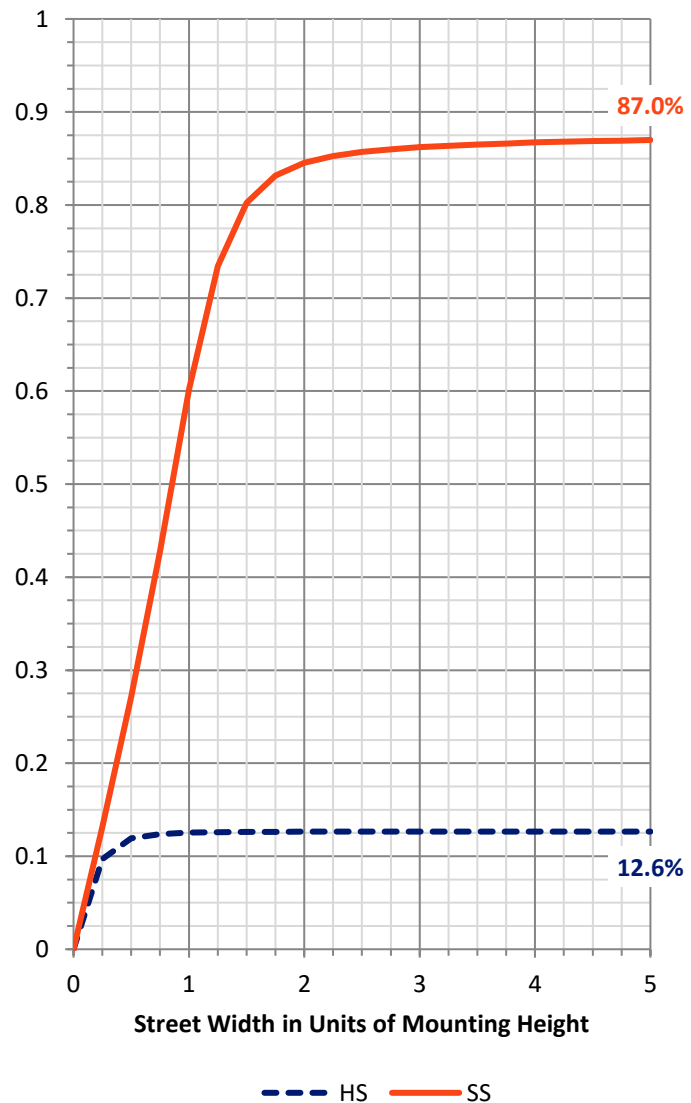
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1273.3	0.0	1273.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	8684.8	0.0	8684.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	9958.1	0.0	9958.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	1.2
10°-20°	322.4	3.2
20°-30°	541.4	5.4
30°-40°	1037.9	10.4
40°-50°	2119.8	21.3
50°-60°	2805.3	28.2
60°-70°	2179.2	21.9
70°-80°	786.6	7.9
80°-90°	50.1	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°	9958.1	100.0
0°-180°	9958.1	100.0



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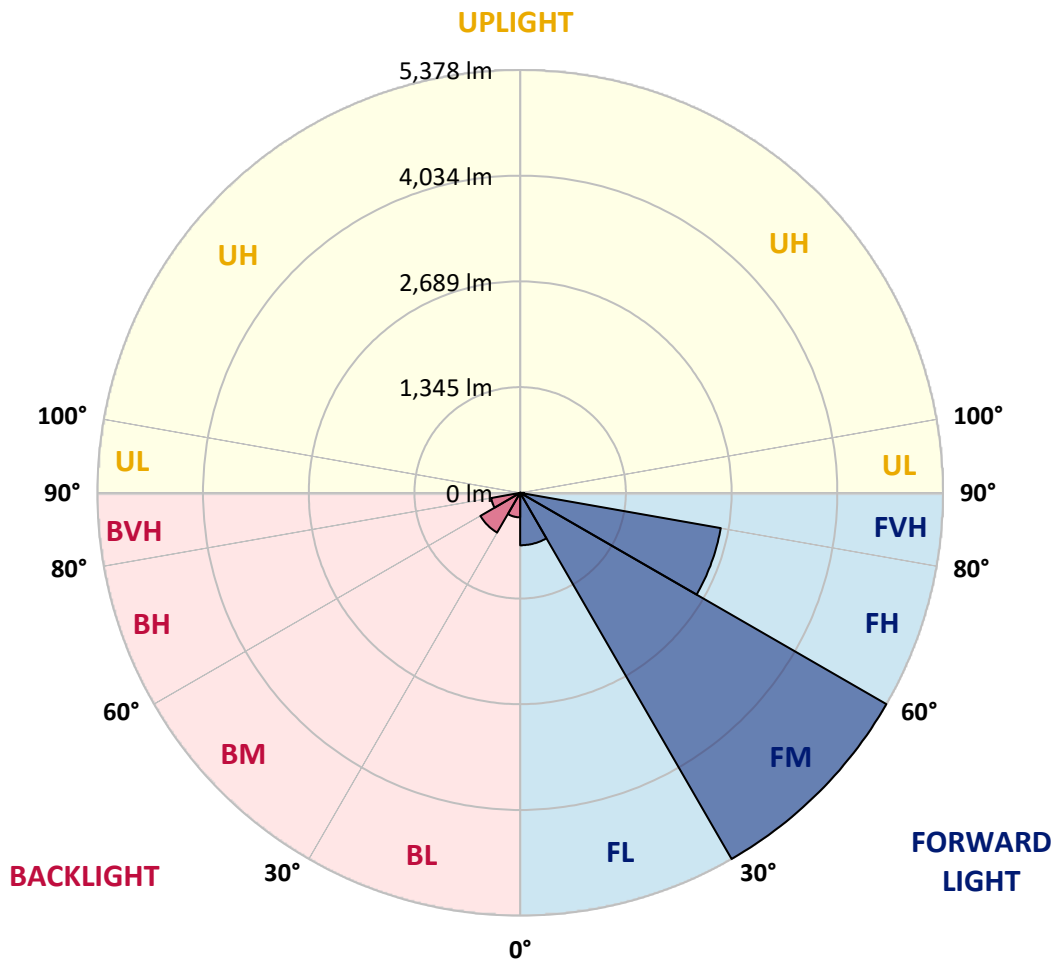
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	667.6	6.7			
FM	(30°-60°)	5378.4	54.0			
FH	(60°-80°)	2590.9	26.0			G2/5000
FVH	(80°-90°)	47.9	0.5			G1/100
BL	(0°-30°)	311.6	3.1	B1/500		
BM	(30°-60°)	584.5	5.9	B1/1000		
BH	(60°-80°)	374.9	3.8	B1/500		G1/500
BVH	(80°-90°)	2.2	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°	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5
2.5°	1231.3	1228.9	1226.5	1224.1	1224.1	1221.7	1219.2	1214.2	1209.4	1204.4	1202.0
5°	1253.5	1251.0	1248.6	1251.0	1248.6	1248.6	1246.0	1241.2	1236.2	1228.9	1221.7
7.5°	1270.7	1268.1	1265.7	1268.1	1270.7	1273.0	1275.5	1270.7	1268.1	1258.3	1251.0
10°	1292.7	1290.1	1287.7	1292.7	1292.7	1304.9	1307.4	1304.9	1302.5	1295.0	1282.8
12.5°	1324.5	1326.8	1326.8	1331.7	1336.7	1351.4	1356.4	1349.0	1349.0	1339.2	1324.5
15°	1383.2	1383.2	1383.2	1388.2	1390.5	1410.1	1415.0	1407.6	1412.6	1395.4	1380.8
17.5°	1439.5	1442.0	1446.8	1456.6	1456.6	1473.8	1483.6	1483.6	1493.3	1471.3	1451.8
20°	1495.8	1498.3	1505.6	1527.7	1527.7	1549.7	1566.9	1574.1	1583.9	1562.0	1527.7
22.5°	1557.0	1557.0	1569.2	1603.6	1596.2	1640.2	1672.0	1684.3	1694.2	1664.6	1610.9
25°	1650.0	1640.2	1650.0	1681.8	1677.0	1738.2	1796.9	1809.1	1821.5	1787.2	1706.3
27.5°	1826.3	1811.6	1777.3	1779.8	1779.8	1850.8	1934.1	1951.2	1958.6	1929.1	1828.8
30°	2178.7	2178.7	2051.5	1965.9	1909.5	1973.1	2090.7	2120.1	2129.9	2085.9	1953.6
32.5°	2793.3	2793.3	2558.4	2340.4	2127.5	2127.5	2262.1	2315.9	2325.7	2274.2	2120.1
35°	3576.7	3571.8	3219.3	2920.6	2504.5	2347.8	2462.9	2553.4	2582.7	2514.3	2335.6
37.5°	4409.2	4377.3	3997.7	3655.1	3084.6	2700.2	2734.6	2854.5	2881.5	2825.1	2614.5
40°	5084.8	5048.0	4742.1	4455.7	3833.7	3263.4	3126.2	3236.5	3268.3	3189.9	2947.6
42.5°	5696.8	5606.2	5395.7	5190.0	4695.5	4237.8	3647.7	3691.8	3726.1	3642.8	3322.1
45°	6139.9	6000.4	5892.6	5829.0	5567.1	5307.5	4323.5	4235.2	4247.5	4144.7	3730.9
47.5°	6152.1	6054.2	6064.0	6230.6	6338.3	6328.4	5202.3	4888.9	4842.5	4671.0	4166.7
50°	5564.6	5621.0	5799.5	6274.5	6857.2	7209.7	6247.6	5662.6	5523.0	5214.5	4600.0
52.5°	4585.4	4673.5	5008.9	5809.3	6933.1	7789.9	7332.1	6546.3	6296.6	5753.1	4933.0
55°	3591.5	3596.4	3948.8	4764.2	6426.4	7895.3	8198.8	7518.3	7136.2	6162.0	5153.2
57.5°	2470.2	2604.8	3052.8	3601.1	5283.0	7371.3	8524.3	8272.2	7780.2	6414.1	5307.5
60°	1618.1	1625.6	2146.9	2781.2	3596.4	5998.0	8326.1	8671.2	8301.5	6563.5	5412.7
62°	1140.8	1153.1	1476.3	2271.9	2710.0	4298.8	7887.8	8754.5	8595.4	6651.6	5523.0
62.5°	1057.6	1067.4	1339.2	2144.6	2546.1	3855.9	7731.3	8734.8	8639.4	6681.0	5562.1
65°	776.0	776.0	876.4	1473.8	1865.5	2083.3	6551.2	8345.7	8580.7	6916.1	5709.1
67.5°	599.8	604.6	639.0	908.2	1407.6	1263.2	4181.4	7469.2	7968.7	7263.6	5792.4
70°	516.5	514.1	538.7	602.3	1016.0	839.7	1840.9	5829.0	6673.6	7175.5	5716.4
72.5°	381.9	384.4	440.7	528.8	707.5	545.9	832.4	3094.4	4328.4	5616.1	4898.6
75°	244.8	247.3	311.0	416.2	509.2	357.4	479.9	923.0	1772.4	3114.1	2996.6
77.5°	164.0	168.9	203.1	291.3	445.6	222.8	301.1	386.8	533.8	1167.7	1074.7
80°	110.1	110.1	129.7	195.8	281.4	186.0	161.5	257.1	276.7	362.3	181.2
82.5°	73.4	73.4	85.7	129.7	183.7	166.5	97.9	139.5	161.5	181.2	63.7
85°	44.0	44.0	58.7	80.8	120.0	93.1	63.7	78.3	83.3	115.1	34.2
87.5°	26.9	24.4	39.2	56.4	63.7	56.4	41.6	41.6	44.0	63.7	17.2
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°	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5	1199.5
2.5°	1197.1	1194.7	1192.2	1187.3	1180.1	1175.2	1170.2	1165.3	1160.4	1160.4	1167.7
5°	1219.2	1211.9	1202.0	1192.2	1177.6	1167.7	1160.4	1150.5	1145.7	1145.7	1148.2
7.5°	1246.0	1238.8	1221.7	1204.4	1182.4	1165.3	1148.2	1126.1	1109.0	1101.6	1109.0
10°	1275.5	1265.7	1241.2	1214.2	1189.7	1145.7	1089.5	1020.8	962.2	935.1	947.4
12.5°	1312.2	1299.9	1270.7	1233.8	1177.6	1069.8	930.3	771.1	670.8	624.3	634.1
15°	1366.1	1349.0	1307.4	1251.0	1126.1	893.5	666.0	482.3	389.2	350.1	355.0
17.5°	1429.7	1407.6	1351.4	1246.0	994.0	643.8	396.6	281.4	242.4	232.7	232.7
20°	1498.3	1468.9	1395.4	1209.4	793.3	404.0	247.3	215.5	200.7	193.4	193.4
22.5°	1569.2	1530.2	1432.2	1123.7	565.6	252.2	203.1	181.2	164.0	156.7	156.7
25°	1654.9	1603.6	1468.9	974.3	360.0	203.1	173.8	151.8	134.7	124.9	127.3
27.5°	1755.3	1689.3	1500.7	788.4	232.7	176.2	144.4	122.3	107.7	102.9	102.9
30°	1860.6	1782.2	1508.1	589.9	188.6	151.8	120.0	100.4	90.5	85.7	85.7
32.5°	2005.0	1902.3	1486.1	391.8	159.1	127.3	100.4	83.3	75.8	73.4	73.4
35°	2195.9	2058.8	1434.7	242.4	134.7	105.3	83.3	73.4	66.0	63.7	63.7
37.5°	2438.3	2276.8	1344.0	166.5	115.1	85.7	71.0	63.7	58.7	56.4	56.4
40°	2761.5	2541.1	1226.5	144.4	97.9	73.4	61.3	56.4	51.5	51.5	51.5
42.5°	3104.3	2861.9	1074.7	127.3	83.3	63.7	53.9	49.0	46.5	44.0	44.0
45°	3478.7	3189.9	886.2	112.6	71.0	56.4	49.0	41.6	39.2	39.2	39.2
47.5°	3850.9	3527.7	680.6	97.9	61.3	49.0	41.6	36.7	34.2	31.8	31.8
50°	4232.9	3833.7	499.4	85.7	53.9	44.0	36.7	31.8	26.9	24.4	24.4
52.5°	4509.4	4017.4	364.8	73.4	46.5	36.7	29.4	24.4	19.7	17.2	17.2
55°	4712.7	4130.0	266.8	61.3	41.6	31.8	24.4	19.7	14.7	14.7	12.2
57.5°	4871.8	4183.9	200.7	53.9	36.7	26.9	19.7	14.7	12.2	9.8	9.8
60°	4994.1	4186.3	149.4	44.0	31.8	22.0	14.7	9.8	7.4	7.4	7.4
62°	5155.7	4218.1	122.3	36.7	29.4	19.7	12.2	7.4	4.9	2.4	2.4
62.5°	5202.3	4230.4	117.5	36.7	26.9	17.2	9.8	7.4	4.9	2.4	2.4
65°	5417.7	4252.3	90.5	29.4	22.0	14.7	7.4	4.9	0.0	0.0	0.0
67.5°	5613.6	4218.1	66.0	22.0	17.2	9.8	7.4	2.4	0.0	0.0	0.0
70°	5593.9	3983.2	46.5	14.7	12.2	7.4	4.9	0.0	0.0	0.0	0.0
72.5°	4609.8	2981.8	31.8	12.2	7.4	4.9	2.4	0.0	0.0	0.0	0.0
75°	2783.5	1304.9	22.0	7.4	7.4	4.9	2.4	0.0	0.0	0.0	0.0
77.5°	913.1	472.5	14.7	4.9	4.9	2.4	2.4	0.0	0.0	0.0	0.0
80°	149.4	78.3	7.4	4.9	4.9	2.4	2.4	0.0	0.0	0.0	0.0
82.5°	46.5	19.7	4.9	4.9	2.4	2.4	0.0	0.0	0.0	0.0	0.0
85°	17.2	7.4	4.9	4.9	2.4	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	4.9	4.9	4.9	2.4	2.4	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)