

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: P800052

Luminaire Tested: **ARCH2-70-740-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-70-740-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7004 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 73.6
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: 24 FT

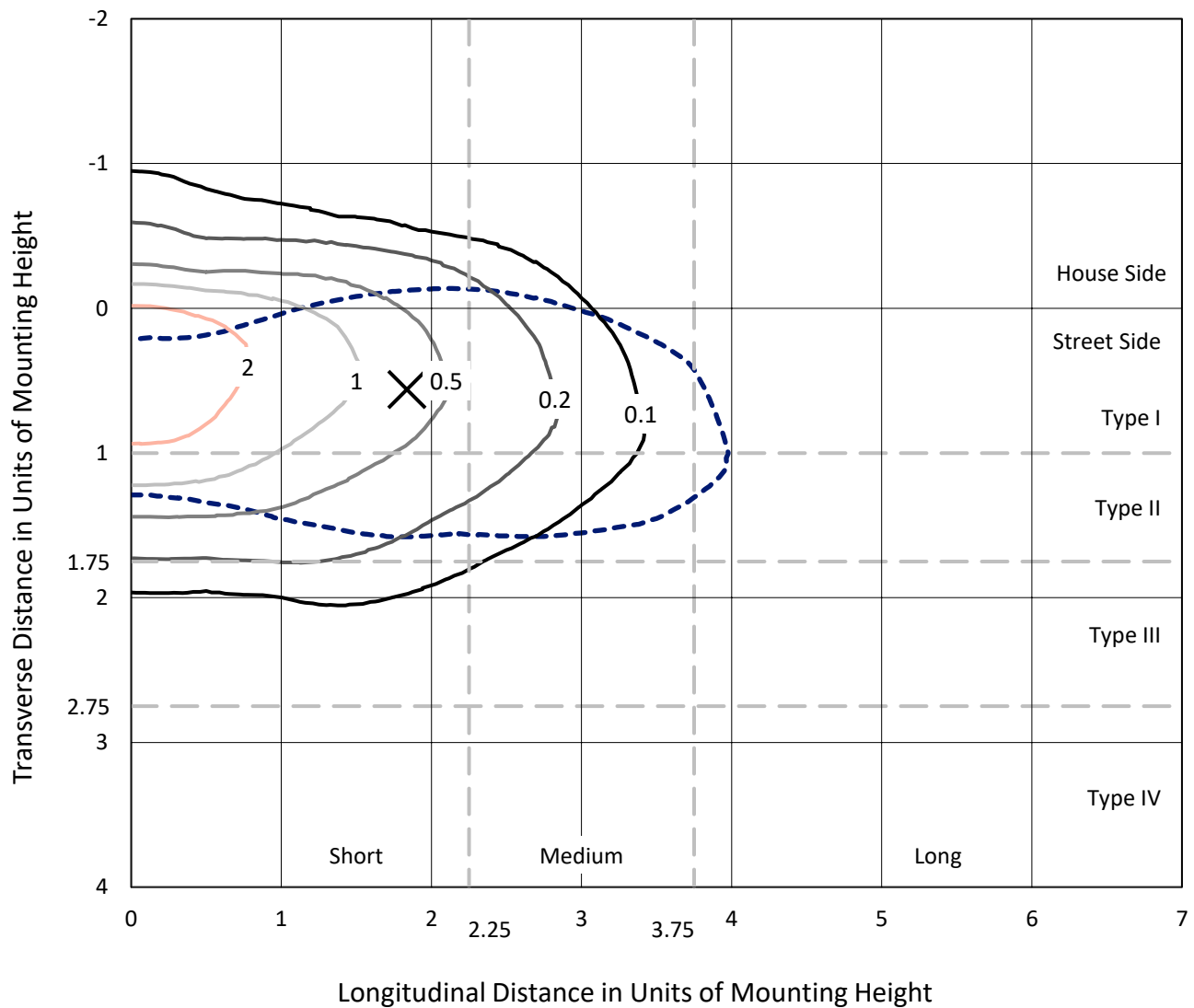


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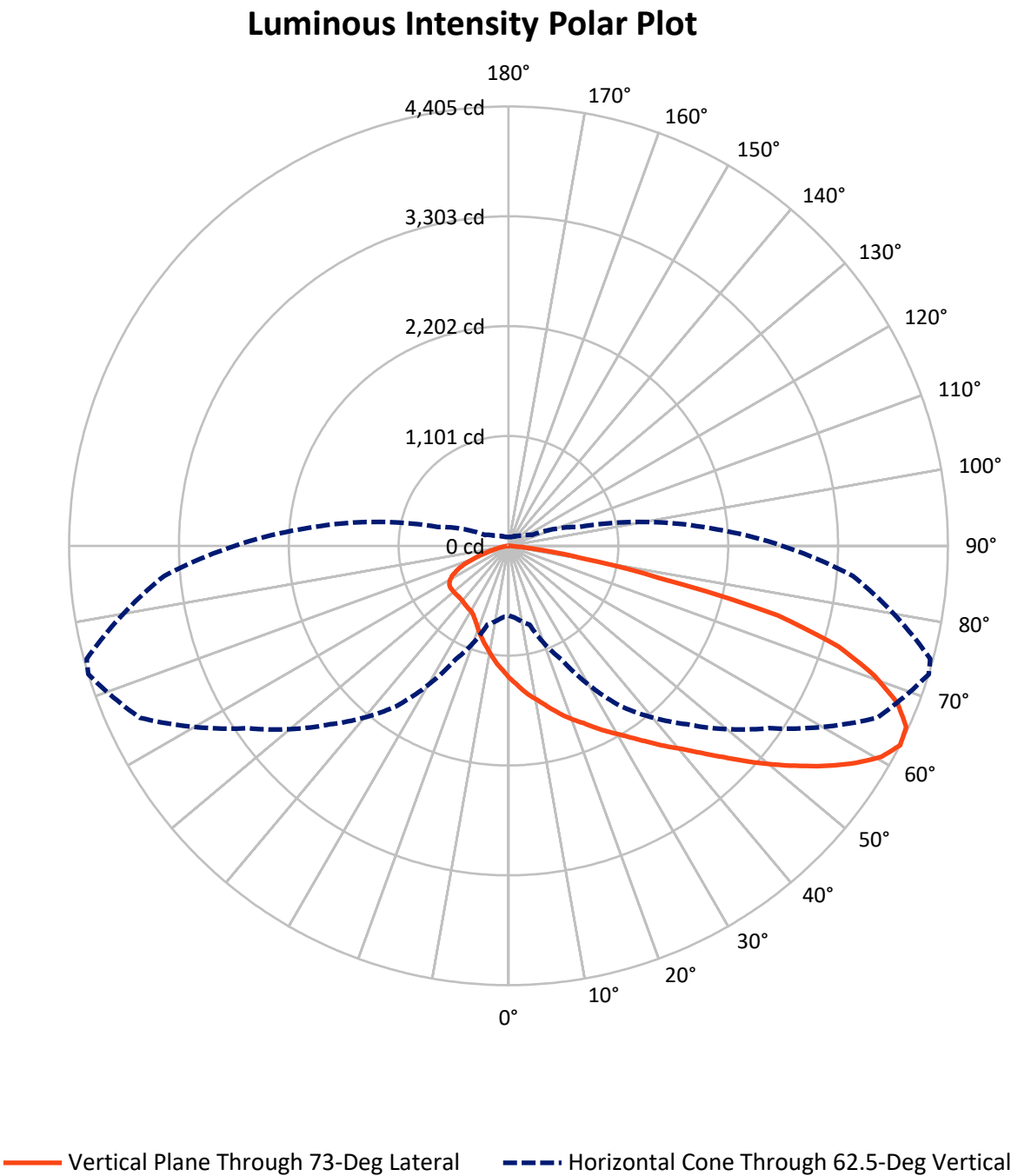
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type II - Short - N/A

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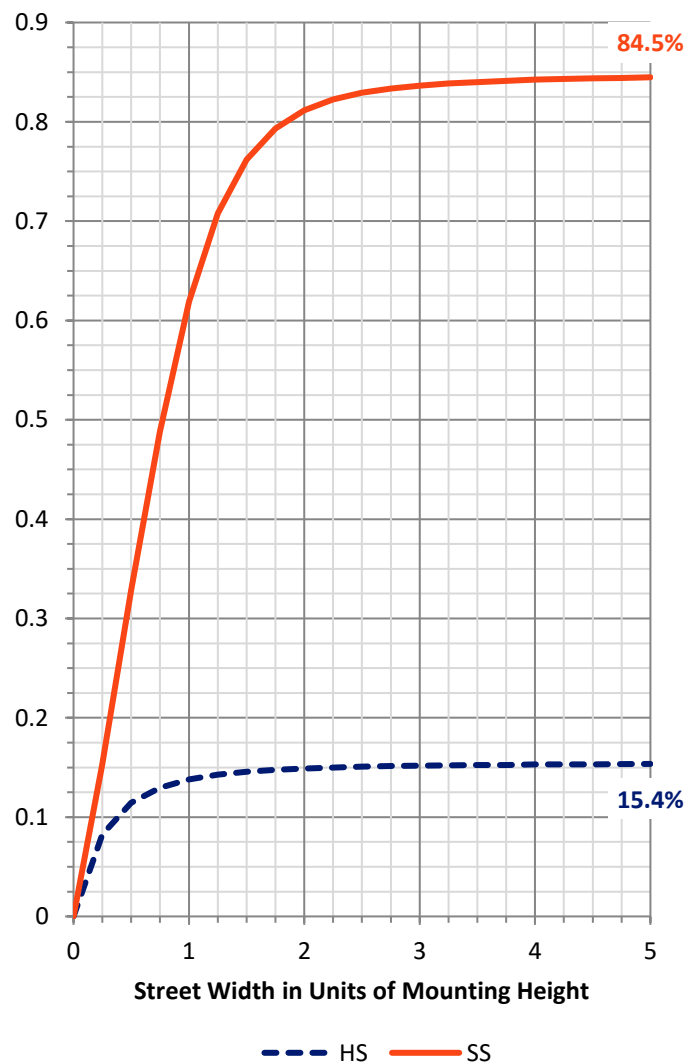
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1085.7	0.0	1085.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	5918.3	0.0	5918.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	7004.0	0.0	7004.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	1.8
10°-20°	386.6	5.5
20°-30°	643.5	9.2
30°-40°	971.0	13.9
40°-50°	1357.2	19.4
50°-60°	1499.1	21.4
60°-70°	1305.9	18.6
70°-80°	659.7	9.4
80°-90°	53.0	0.8
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°	7004.0	100.0
0°-180°	7004.0	100.0

Coefficient of Utilization



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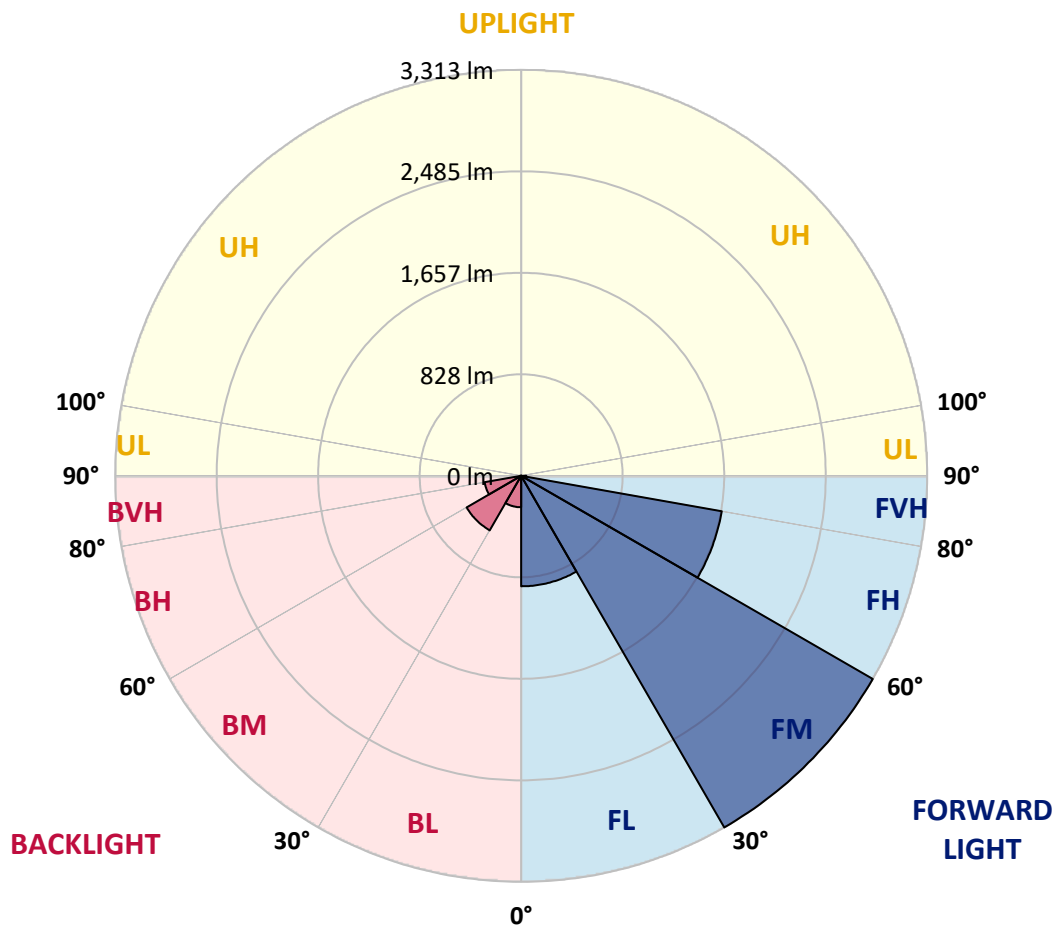
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	901.6	12.9			
FM	(30°-60°)	3313.1	47.3			
FH	(60°-80°)	1662.5	23.7			G1/1800
FVH	(80°-90°)	41.0	0.6			G1/100
BL	(0°-30°)	256.6	3.7	B1/500		
BM	(30°-60°)	514.1	7.3	B1/1000		
BH	(60°-80°)	303.0	4.3	B1/500		G1/500
BVH	(80°-90°)	12.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1326.2	1326.2	1326.2	1326.2	1326.2	1326.2	1326.2	1326.2	1326.2	1326.2	1326.2
2.5°	1509.4	1526.1	1517.0	1523.1	1492.6	1472.7	1449.8	1405.6	1381.2	1378.1	1349.1
5°	1730.7	1749.0	1733.7	1729.1	1675.7	1629.9	1578.0	1500.2	1448.3	1439.2	1375.1
7.5°	1951.9	1968.7	1950.4	1936.7	1865.0	1784.1	1707.8	1593.3	1512.4	1497.2	1396.4
10°	2107.6	2122.9	2109.1	2095.4	2020.6	1938.2	1829.9	1680.3	1570.4	1546.0	1410.2
12.5°	2225.1	2234.3	2228.2	2216.0	2145.8	2057.2	1953.5	1778.0	1636.0	1605.5	1431.5
15°	2321.3	2336.5	2328.9	2319.7	2252.6	2164.1	2064.9	1880.2	1712.3	1674.2	1463.6
17.5°	2385.4	2396.1	2397.6	2397.6	2338.1	2251.1	2154.9	1973.3	1788.6	1739.8	1494.1
20°	2414.4	2426.6	2434.2	2446.4	2397.6	2322.8	2225.1	2052.7	1860.4	1805.4	1523.1
22.5°	2428.1	2438.8	2458.6	2486.1	2446.4	2383.8	2293.8	2125.9	1932.1	1874.1	1556.7
25°	2438.8	2452.5	2481.5	2533.4	2505.9	2452.5	2374.7	2209.9	2017.6	1958.0	1605.5
27.5°	2467.8	2484.6	2512.0	2574.6	2541.0	2515.1	2460.1	2299.9	2107.6	2046.6	1665.0
30°	2568.5	2582.2	2580.7	2620.4	2579.2	2571.6	2533.4	2386.9	2194.6	2133.6	1735.2
32.5°	2751.6	2765.4	2731.8	2716.5	2626.5	2628.0	2612.8	2480.0	2298.4	2235.8	1816.1
35°	2948.5	2963.8	2919.5	2893.6	2742.5	2698.2	2705.9	2596.0	2414.4	2351.8	1916.8
37.5°	3124.0	3142.3	3104.2	3066.0	2913.4	2811.2	2809.6	2725.7	2547.1	2483.0	2028.3
40°	3220.2	3241.5	3264.4	3243.1	3082.8	2969.9	2921.0	2858.5	2678.4	2612.8	2148.8
42.5°	3266.0	3325.5	3366.7	3352.9	3221.7	3107.2	3049.2	2997.4	2838.6	2774.5	2292.3
45°	3137.8	3139.3	3226.3	3301.1	3276.6	3200.3	3189.6	3153.0	3021.8	2960.7	2454.0
47.5°	2977.5	2965.3	3026.4	3159.1	3227.8	3247.6	3310.2	3325.5	3230.9	3169.8	2618.9
50°	2592.9	2600.6	2799.0	2989.7	3124.0	3252.2	3395.7	3502.5	3446.0	3388.0	2792.9
52.5°	2109.1	2127.4	2354.8	2774.5	2986.7	3206.4	3446.0	3679.5	3665.8	3610.9	2966.8
55°	1691.0	1720.0	1961.1	2415.9	2811.2	3104.2	3467.4	3841.3	3893.2	3842.8	3137.8
57.5°	1292.6	1323.2	1526.1	1993.1	2586.8	2937.8	3452.1	3983.2	4105.3	4073.3	3295.0
60°	973.7	1004.2	1133.9	1616.2	2306.0	2751.6	3375.8	4076.3	4296.1	4262.5	3409.4
62.5°	697.4	721.9	818.0	1257.5	1964.2	2530.4	3188.1	4077.9	4404.5	4377.0	3464.4
65°	502.1	502.1	579.9	897.4	1643.7	2264.8	2904.3	3890.2	4381.6	4373.9	3426.2
67.5°	361.7	364.7	427.3	627.2	1311.0	1942.8	2536.5	3555.9	4204.5	4242.7	3288.8
70°	256.4	264.0	293.0	438.0	990.5	1533.8	2142.7	3117.9	3885.6	3952.7	3023.3
72.5°	198.4	203.0	222.8	305.2	723.4	1140.0	1707.8	2629.6	3459.8	3536.1	2661.6
75°	152.6	157.2	172.5	224.3	518.9	799.7	1213.3	2040.5	2789.8	2925.6	2138.1
77.5°	111.4	117.5	128.2	163.3	302.2	508.2	735.6	1147.7	1539.9	1604.0	1120.2
80°	51.9	59.5	74.8	105.3	163.3	239.6	261.0	442.6	740.2	773.8	607.4
82.5°	29.0	36.6	42.7	64.1	82.4	85.5	88.5	111.4	279.3	308.3	254.9
85°	13.7	18.3	19.8	27.5	27.5	24.4	29.0	21.4	45.8	54.9	53.4
87.5°	0.0	1.5	3.1	7.6	6.1	4.6	4.6	4.6	4.6	6.1	4.6
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°	1326.2	1326.2	1326.2	1326.2	1326.2	1326.2	1326.2	1326.2	1326.2	1326.2	1326.2
2.5°	1335.4	1315.5	1269.8	1230.1	1204.1	1181.2	1150.7	1137.0	1112.6	1117.1	1103.4
5°	1343.0	1306.4	1225.5	1150.7	1095.8	1046.9	993.5	963.0	929.4	926.4	915.7
7.5°	1347.6	1291.1	1175.1	1069.8	985.9	911.1	839.4	799.7	758.5	749.3	740.2
10°	1343.0	1268.2	1123.2	985.9	874.5	781.4	700.5	650.1	607.4	596.7	587.6
12.5°	1347.6	1256.0	1074.4	908.1	775.3	670.0	578.4	526.5	486.8	476.2	470.1
15°	1358.3	1248.4	1033.2	837.9	686.8	569.3	479.2	435.0	402.9	392.2	389.2
17.5°	1367.4	1240.8	988.9	769.2	598.2	480.7	402.9	366.3	338.8	328.1	325.1
20°	1379.6	1230.1	944.7	703.6	520.4	410.5	341.9	309.8	288.4	280.8	279.3
22.5°	1390.3	1222.4	903.5	637.9	448.7	354.1	296.1	270.1	254.9	247.2	247.2
25°	1417.8	1225.5	868.4	576.9	395.3	309.8	261.0	241.1	228.9	224.3	224.3
27.5°	1449.8	1237.7	840.9	525.0	349.5	276.2	236.6	219.8	213.7	207.6	209.1
30°	1495.6	1262.1	822.6	482.3	315.9	250.3	216.7	204.5	198.4	196.9	196.9
32.5°	1553.6	1301.8	821.1	454.8	291.5	230.4	203.0	192.3	189.2	187.7	187.7
35°	1622.3	1336.9	811.9	442.6	276.2	216.7	192.3	184.7	183.1	183.1	183.1
37.5°	1704.7	1394.9	805.8	425.8	268.6	209.1	184.7	178.6	178.6	178.6	178.6
40°	1790.2	1442.2	796.6	410.5	265.5	204.5	180.1	172.5	172.5	172.5	172.5
42.5°	1892.4	1510.9	793.6	402.9	261.0	201.5	174.0	164.8	166.4	166.4	167.9
45°	2016.0	1588.7	792.1	395.3	259.4	198.4	167.9	157.2	158.7	157.2	157.2
47.5°	2141.2	1678.8	796.6	390.7	257.9	195.3	163.3	149.6	149.6	148.0	148.0
50°	2272.4	1761.2	799.7	386.1	254.9	189.2	155.7	143.5	140.4	137.4	138.9
52.5°	2396.1	1837.5	801.2	378.5	245.7	180.1	149.6	135.8	131.2	126.7	128.2
55°	2519.7	1910.7	804.3	369.3	233.5	170.9	141.9	128.2	122.1	116.0	116.0
57.5°	2631.1	1974.8	796.6	346.4	219.8	161.8	134.3	119.0	109.9	103.8	103.8
60°	2707.4	2020.6	773.8	312.9	201.5	151.1	126.7	109.9	99.2	94.6	94.6
62.5°	2744.0	2028.3	732.6	257.9	178.6	140.4	117.5	100.7	91.6	88.5	88.5
65°	2708.9	1994.7	668.5	193.8	154.1	128.2	108.4	93.1	83.9	76.3	76.3
67.5°	2586.8	1900.1	579.9	146.5	131.2	116.0	99.2	85.5	74.8	68.7	68.7
70°	2341.1	1703.2	448.7	117.5	111.4	100.7	90.0	76.3	67.2	59.5	59.5
72.5°	2019.1	1443.7	315.9	94.6	94.6	85.5	76.3	67.2	58.0	51.9	51.9
75°	1549.0	1068.3	212.1	76.3	77.8	71.7	62.6	54.9	48.8	44.3	44.3
77.5°	845.5	528.0	129.7	56.5	58.0	54.9	48.8	44.3	41.2	36.6	36.6
80°	410.5	232.0	74.8	39.7	41.2	39.7	36.6	32.0	32.0	29.0	29.0
82.5°	172.5	87.0	39.7	27.5	27.5	24.4	22.9	22.9	22.9	21.4	21.4
85°	42.7	16.8	16.8	15.3	15.3	15.3	13.7	13.7	13.7	10.7	12.2
87.5°	6.1	6.1	6.1	6.1	6.1	6.1	4.6	1.5	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)