

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: P799746

Luminaire Tested: **ARCH2-50-727-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-50-727-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

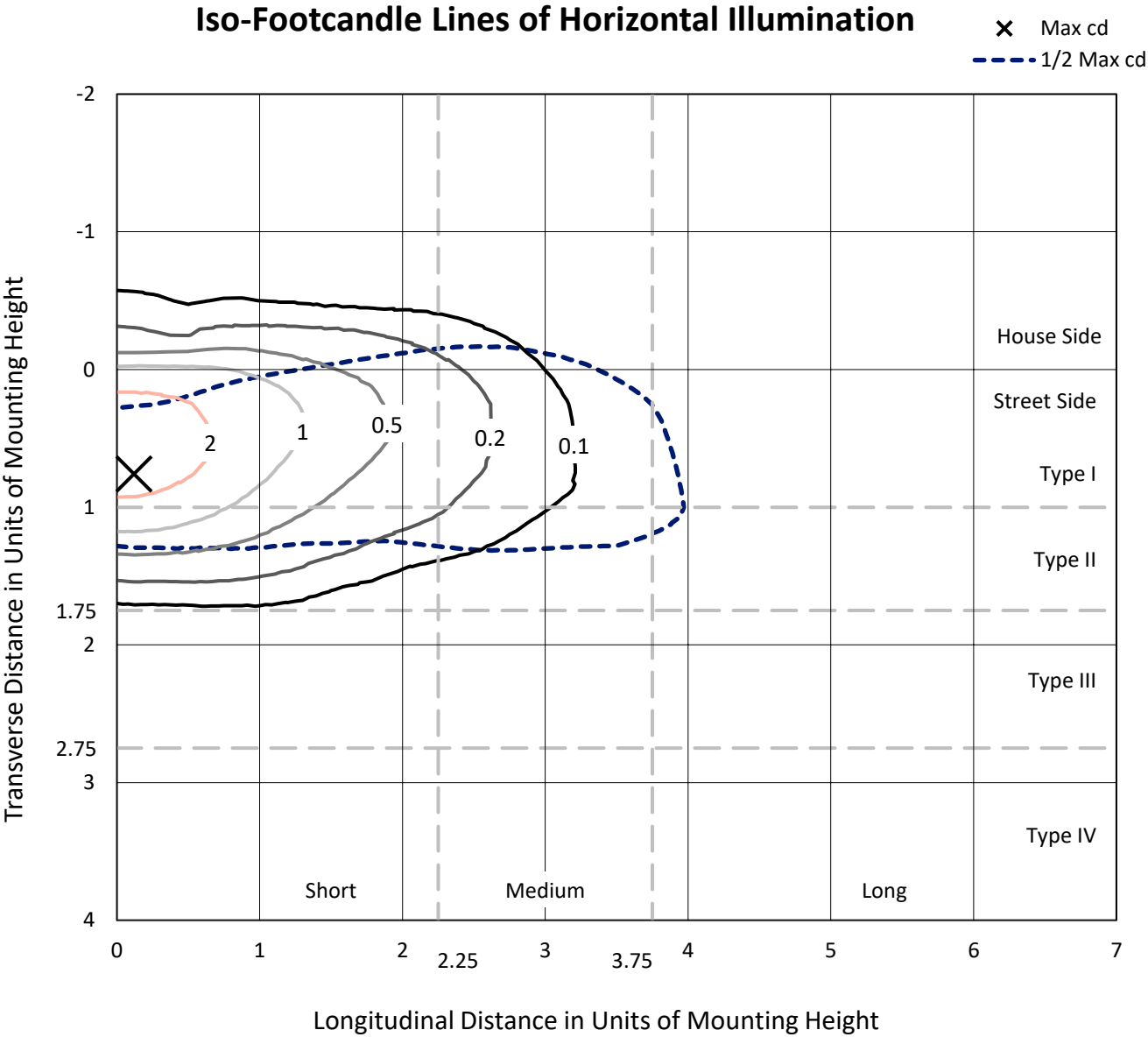
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5285 lumens
Efficiency: N/A
Efficacy: 97.9 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): 54
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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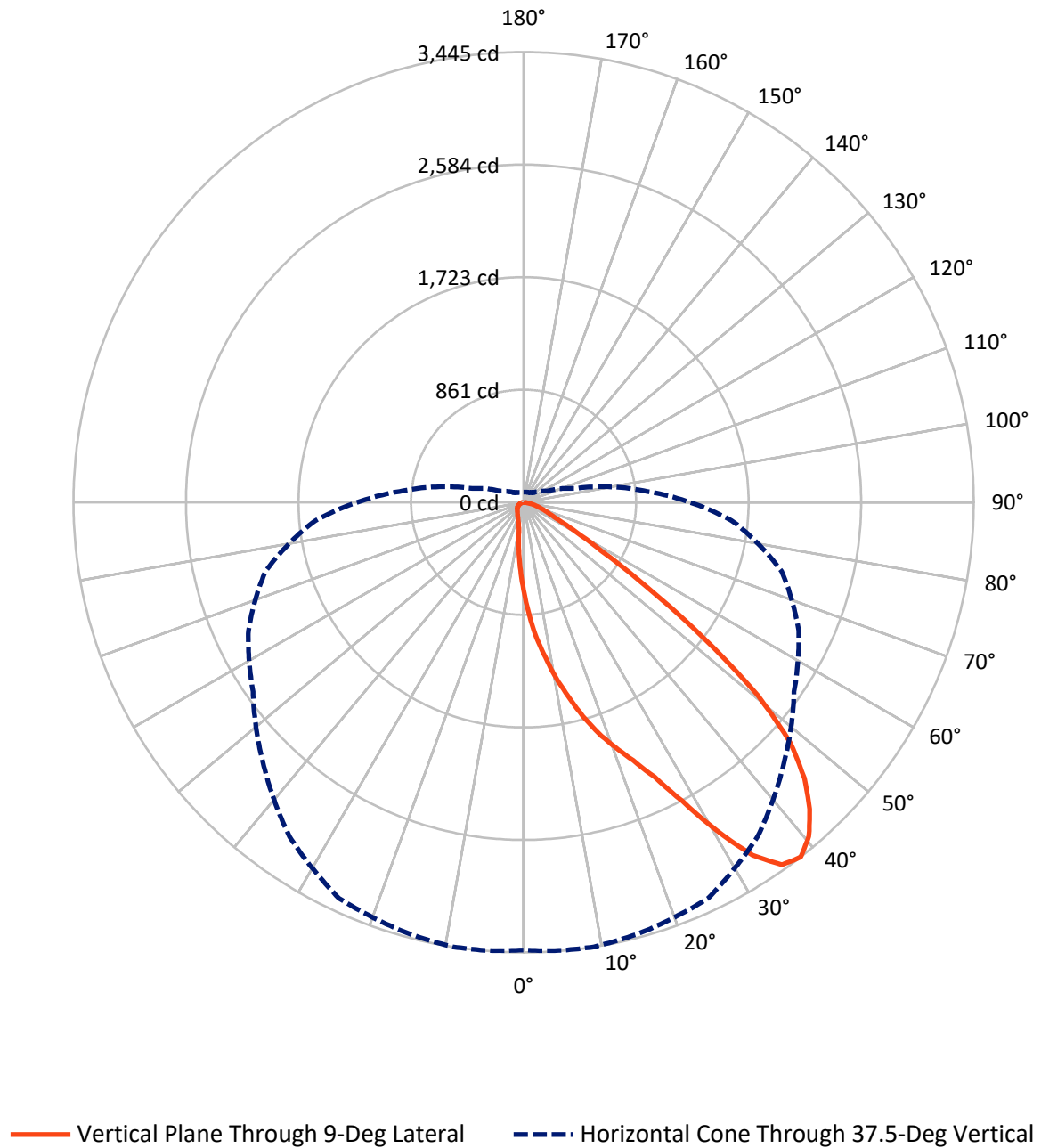


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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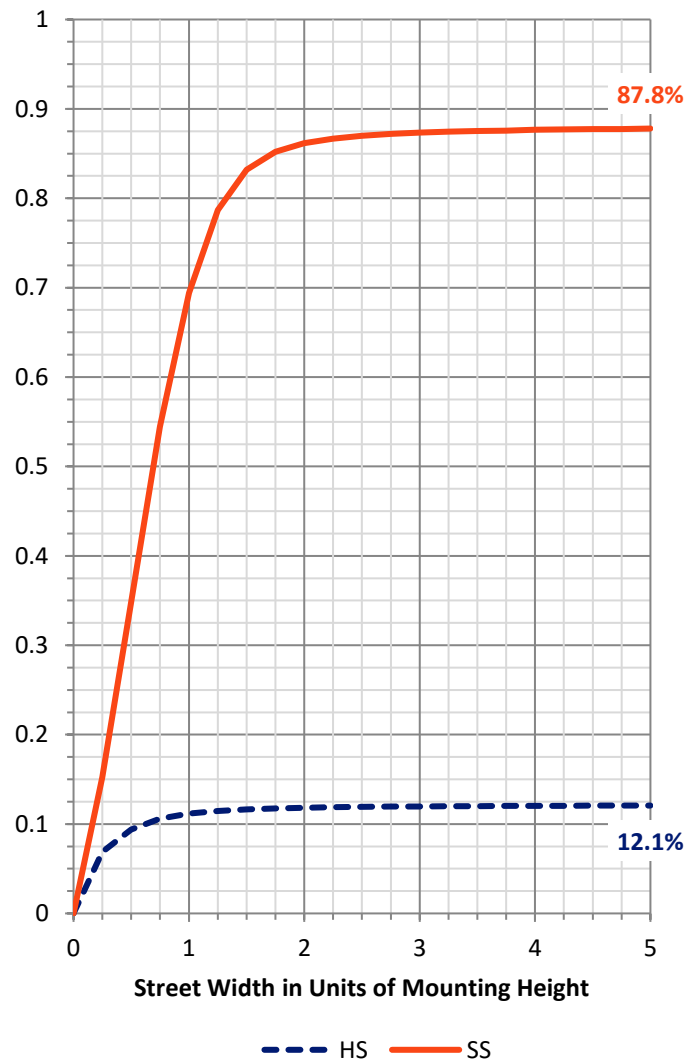
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	642.8	0.0	642.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	4642.3	0.0	4642.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	5285.0	0.0	5285.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	1.3
10°-20°	244.1	4.6
20°-30°	501.5	9.5
30°-40°	886.4	16.8
40°-50°	1177.6	22.3
50°-60°	1116.8	21.1
60°-70°	852.1	16.1
70°-80°	413.1	7.8
80°-90°	23.3	0.4
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°	5285.0	100.0
0°-180°	5285.0	100.0

Coefficient of Utilization



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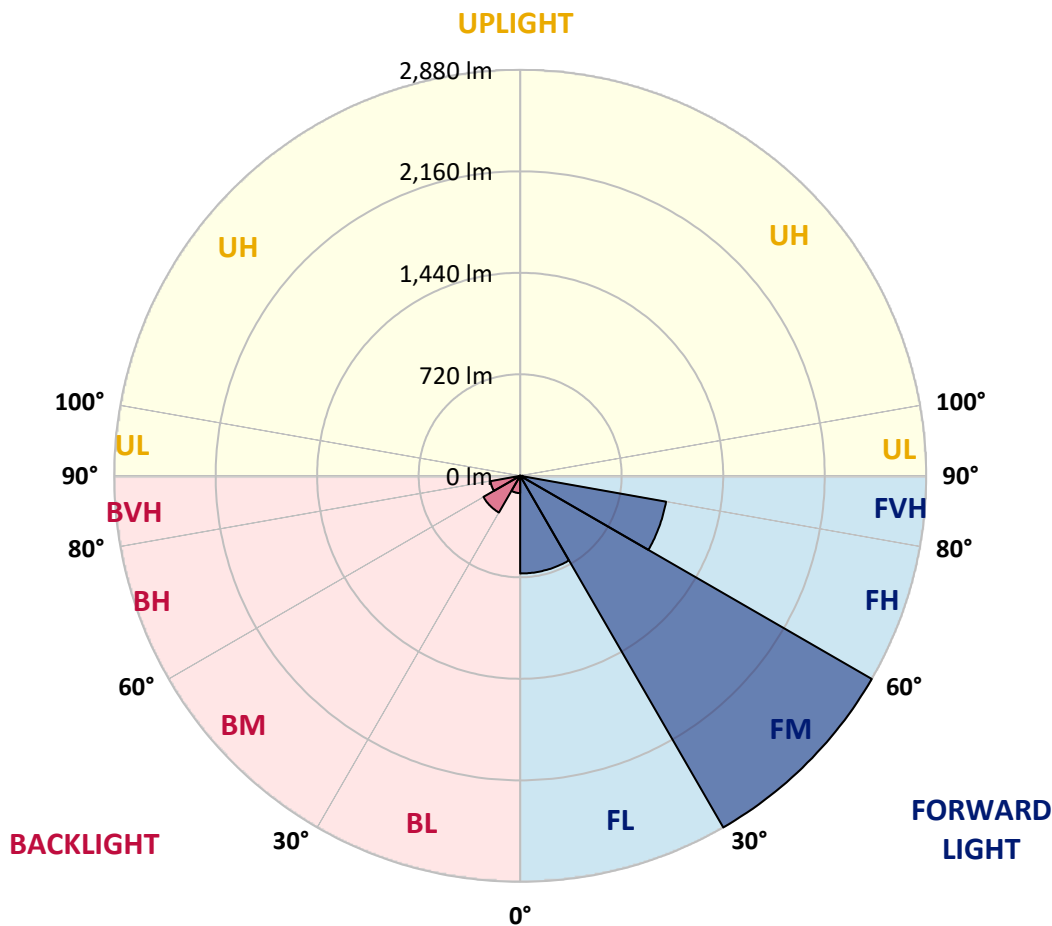
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	693.1	13.1			
FM	(30°-60°)	2880.1	54.5			
FH	(60°-80°)	1050.6	19.9			G1/1800
FVH	(80°-90°)	18.4	0.3			G1/100
BL	(0°-30°)	122.7	2.3	B1/500		
BM	(30°-60°)	300.8	5.7	B1/1000		
BH	(60°-80°)	214.5	4.1	B1/500		G1/500
BVH	(80°-90°)	4.8	0.1			G0/10
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°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6
2.5°	865.7	850.5	867.8	865.7	850.5	840.7	810.3	800.6	764.8	738.8	716.0
5°	1043.6	1028.4	1043.6	1039.2	1017.5	993.7	943.8	911.2	847.2	790.8	739.8
7.5°	1191.1	1191.1	1197.6	1198.7	1172.7	1135.8	1074.0	1025.1	935.1	848.3	767.0
10°	1350.6	1351.7	1365.8	1356.0	1321.3	1271.4	1193.3	1131.4	1023.0	909.1	793.0
12.5°	1520.9	1522.0	1526.3	1522.0	1480.8	1416.8	1322.4	1241.0	1116.3	978.5	828.8
15°	1691.2	1692.3	1697.7	1690.1	1644.6	1569.7	1462.3	1362.5	1215.0	1056.6	872.2
17.5°	1850.7	1852.8	1857.2	1847.4	1799.7	1710.7	1601.2	1480.8	1320.2	1140.1	921.0
20°	1993.9	1996.0	1999.3	1986.3	1938.5	1849.6	1731.3	1605.5	1427.6	1225.8	974.2
22.5°	2138.1	2140.3	2145.7	2128.4	2075.2	1973.3	1857.2	1727.0	1541.5	1320.2	1036.0
25°	2322.6	2324.7	2329.1	2304.1	2231.4	2112.1	1989.5	1856.1	1665.2	1426.5	1111.9
27.5°	2592.7	2590.5	2590.5	2544.9	2420.2	2265.1	2123.0	1987.4	1798.6	1540.4	1195.5
30°	2926.8	2921.4	2918.1	2856.3	2678.4	2437.6	2259.6	2109.9	1926.6	1660.8	1285.5
32.5°	3226.2	3226.2	3219.7	3154.6	2965.9	2669.7	2405.0	2229.3	2050.3	1782.3	1378.8
35°	3403.0	3410.6	3407.4	3358.5	3220.8	2919.2	2601.4	2372.5	2180.5	1909.3	1490.5
37.5°	3426.9	3442.1	3445.3	3416.0	3343.4	3123.1	2819.4	2527.6	2323.6	2045.9	1599.0
40°	3330.3	3362.9	3362.9	3358.5	3332.5	3219.7	3002.7	2707.7	2471.2	2188.0	1708.6
42.5°	3181.7	3215.4	3211.0	3227.3	3220.8	3196.9	3105.8	2875.8	2618.7	2334.5	1808.4
45°	2987.5	3022.3	3013.6	3042.9	3055.9	3081.9	3094.9	2993.0	2764.1	2494.0	1920.1
47.5°	2676.2	2734.8	2747.8	2799.9	2854.1	2935.5	2997.3	3035.3	2899.7	2665.4	2041.6
50°	2216.3	2298.7	2324.7	2434.3	2582.9	2751.1	2850.9	2983.2	2995.1	2841.1	2172.9
52.5°	1587.1	1682.5	1722.7	1902.7	2208.7	2501.6	2681.6	2868.2	3032.0	3009.2	2315.0
55°	1026.2	1107.6	1146.6	1315.9	1722.7	2182.6	2482.0	2719.6	3011.4	3163.3	2477.7
57.5°	632.4	679.1	705.1	850.5	1224.7	1773.7	2220.6	2582.9	2948.5	3296.7	2646.9
60°	426.3	453.4	466.5	534.8	832.0	1325.6	1861.5	2439.7	2866.0	3386.8	2801.0
62.5°	283.1	291.8	304.8	347.1	548.9	930.8	1429.8	2183.7	2804.2	3392.2	2914.9
65°	219.1	223.5	228.9	247.3	338.5	650.9	1005.6	1769.3	2712.0	3277.2	2950.7
67.5°	172.5	176.8	183.3	193.1	245.2	441.5	684.5	1296.3	2523.3	3097.1	2892.1
70°	135.6	138.9	143.2	151.9	190.9	320.0	452.4	861.3	2142.5	2925.7	2707.7
72.5°	107.4	110.6	115.0	123.7	155.1	234.3	310.3	537.0	1652.2	2716.3	2352.9
75°	84.6	86.8	90.0	98.7	124.8	182.2	210.5	321.1	1122.8	2333.4	1833.3
77.5°	42.3	52.1	59.7	68.3	91.1	125.8	139.9	177.9	474.1	1197.6	874.4
80°	25.0	30.4	32.5	38.0	59.7	75.9	75.9	71.6	149.7	460.0	356.9
82.5°	14.1	19.5	20.6	21.7	35.8	43.4	34.7	26.0	30.4	154.0	104.1
85°	4.3	6.5	7.6	8.7	11.9	13.0	11.9	10.8	8.7	15.2	9.8
87.5°	0.0	0.0	0.0	0.0	1.1	2.2	2.2	2.2	3.3	3.3	3.3
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°	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6
2.5°	703.0	688.8	661.7	636.8	612.9	595.6	579.3	564.1	553.2	544.6	543.5
5°	712.7	684.5	632.4	583.6	539.1	502.3	470.8	445.9	427.4	414.4	413.3
7.5°	725.7	682.3	603.2	530.5	464.3	411.1	365.6	331.9	308.1	298.3	290.7
10°	736.6	680.2	573.9	477.3	390.5	323.3	269.0	235.4	218.0	211.5	208.3
12.5°	755.0	682.3	548.9	428.5	326.5	247.3	206.1	187.7	180.1	174.7	173.6
15°	782.1	692.1	525.0	380.8	261.4	199.6	175.7	163.8	156.2	155.1	154.0
17.5°	809.3	700.8	503.3	331.9	217.0	173.6	157.3	147.5	142.1	141.0	141.0
20°	840.7	711.6	479.5	285.3	185.5	156.2	143.2	135.6	129.1	128.0	128.0
22.5°	877.6	726.8	456.7	244.1	164.9	143.2	132.3	123.7	118.2	117.2	117.2
25°	927.5	749.6	438.3	213.7	150.8	132.3	122.6	115.0	110.6	108.5	108.5
27.5°	982.8	781.1	425.2	195.3	141.0	123.7	113.9	107.4	103.1	100.9	100.9
30°	1044.7	815.8	416.6	187.7	135.6	116.1	107.4	100.9	95.5	94.4	94.4
32.5°	1113.0	855.9	411.1	188.8	134.5	110.6	100.9	94.4	90.0	87.9	87.9
35°	1188.9	900.4	407.9	195.3	136.7	106.3	95.5	89.0	84.6	82.4	82.4
37.5°	1273.6	952.5	407.9	201.8	142.1	105.2	90.0	83.5	80.3	78.1	78.1
40°	1352.7	1007.8	412.2	209.4	147.5	105.2	85.7	80.3	75.9	73.8	73.8
42.5°	1414.6	1039.2	415.5	217.0	150.8	104.1	81.4	75.9	72.7	70.5	70.5
45°	1485.1	1072.9	409.0	220.2	150.8	102.0	78.1	72.7	69.4	67.3	67.3
47.5°	1563.2	1114.1	407.9	222.4	147.5	97.6	74.9	69.4	67.3	65.1	65.1
50°	1642.4	1159.7	410.1	221.3	143.2	91.1	70.5	67.3	64.0	61.8	61.8
52.5°	1732.4	1207.4	414.4	219.1	133.4	83.5	67.3	64.0	60.7	58.6	57.5
55°	1832.2	1259.5	423.1	214.8	120.4	75.9	64.0	60.7	56.4	54.2	53.2
57.5°	1947.2	1323.5	432.8	206.1	106.3	69.4	60.7	56.4	49.9	46.6	45.6
60°	2056.8	1396.1	443.7	185.5	92.2	62.9	57.5	51.0	44.5	42.3	41.2
62.5°	2159.8	1467.7	449.1	148.6	78.1	57.5	54.2	46.6	40.1	38.0	36.9
65°	2226.0	1545.8	437.2	100.9	64.0	53.2	49.9	43.4	36.9	33.6	33.6
67.5°	2230.4	1582.7	396.0	66.2	52.1	47.7	45.6	39.1	32.5	30.4	29.3
70°	2120.8	1527.4	302.7	52.1	43.4	41.2	41.2	34.7	28.2	26.0	25.0
72.5°	1869.1	1352.7	193.1	42.3	36.9	34.7	34.7	29.3	25.0	21.7	20.6
75°	1475.3	1043.6	103.1	34.7	30.4	29.3	27.1	23.9	20.6	18.4	17.4
77.5°	678.0	460.0	47.7	25.0	22.8	22.8	20.6	17.4	16.3	14.1	14.1
80°	267.9	156.2	23.9	16.3	15.2	15.2	15.2	11.9	11.9	9.8	8.7
82.5°	73.8	32.5	11.9	9.8	9.8	9.8	8.7	7.6	7.6	6.5	6.5
85°	7.6	5.4	5.4	5.4	5.4	4.3	4.3	3.3	2.2	2.2	2.2
87.5°	3.3	3.3	3.3	3.3	3.3	2.2	1.1	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)