

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: P265719

Luminaire Tested: **ARCH-L-AF72-250-D-U-T2U-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265719
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-AF72-250-D-U-T2U-7027-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1070mA 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: 16953.1 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 251
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

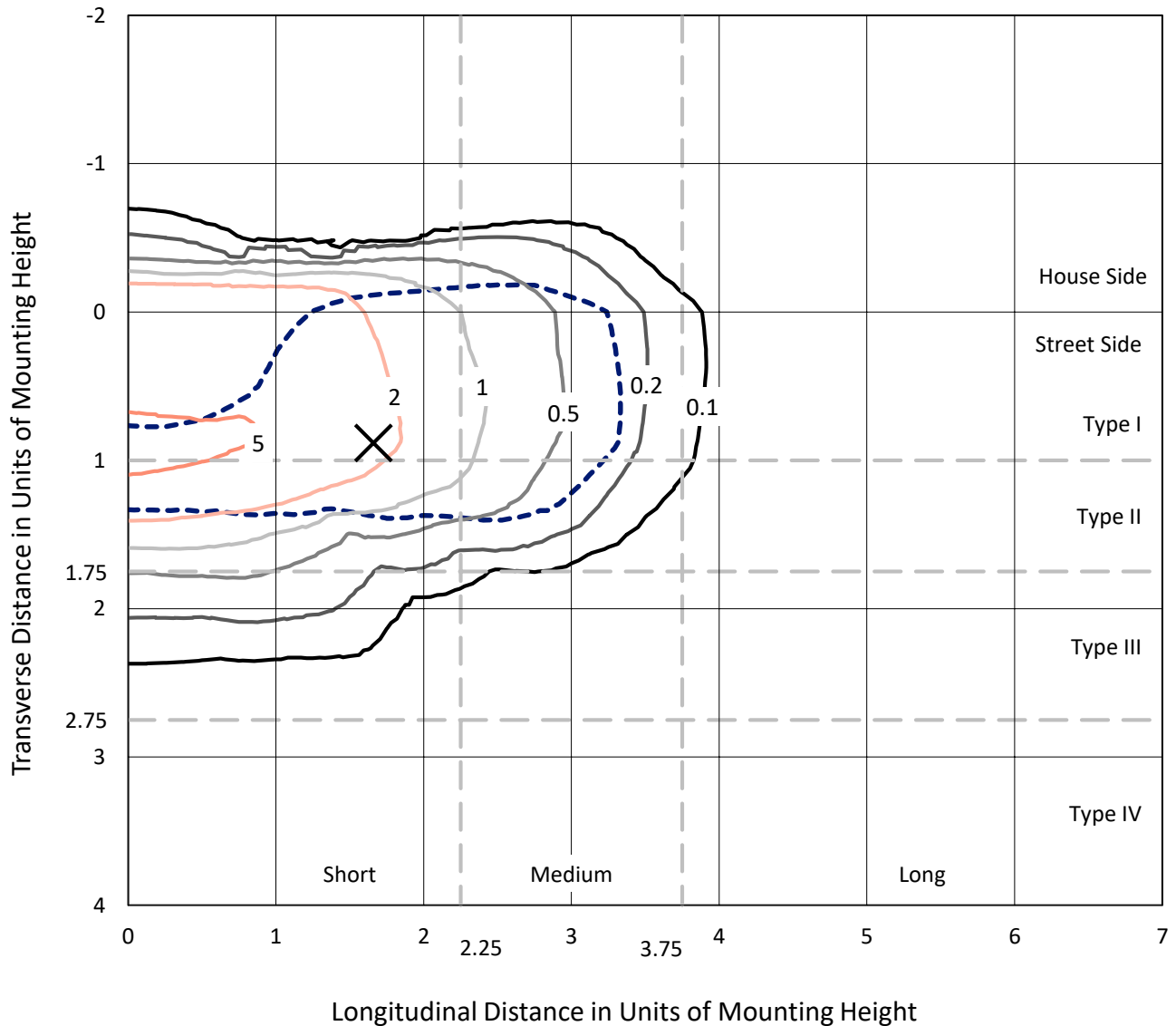


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

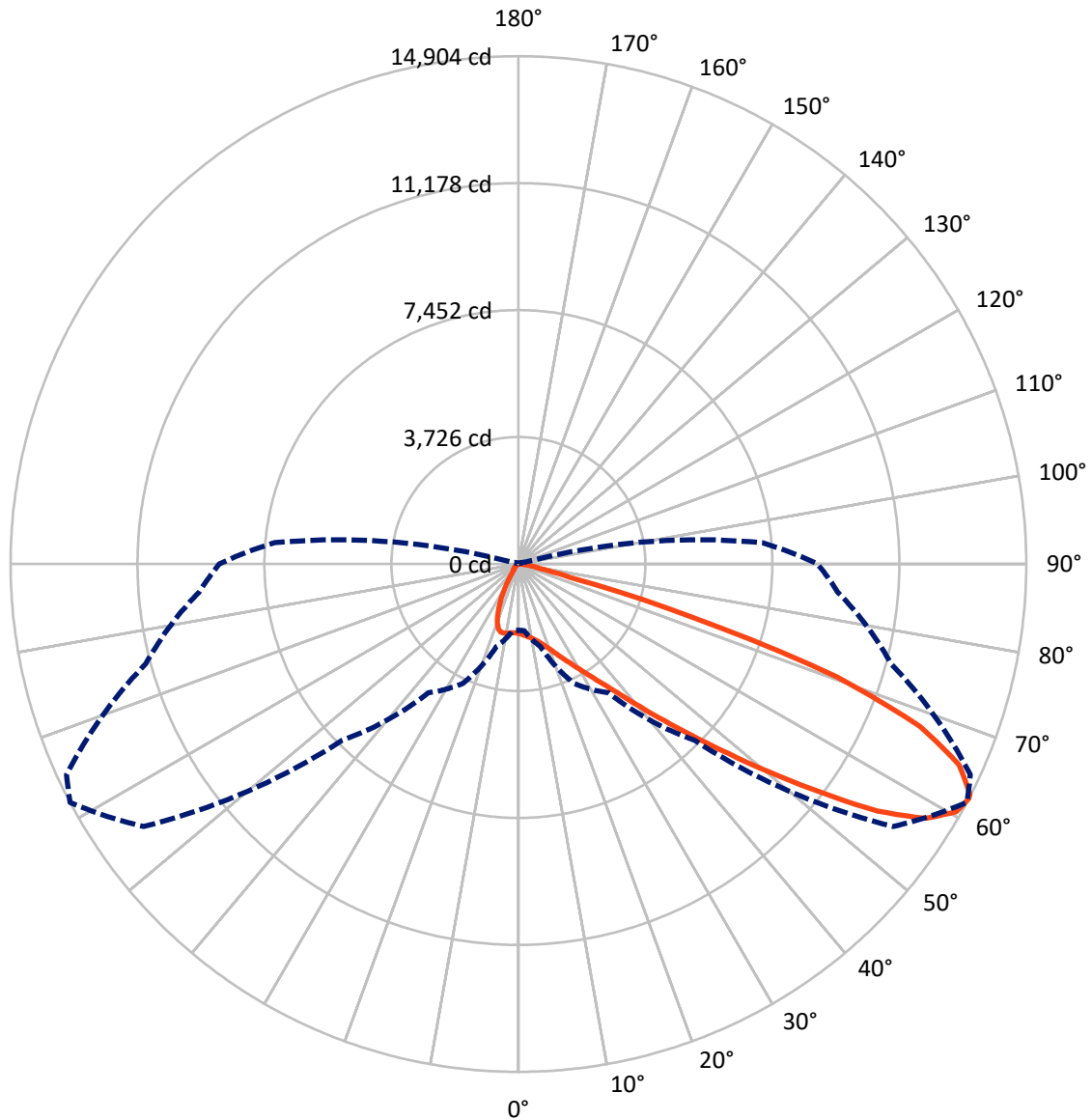


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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



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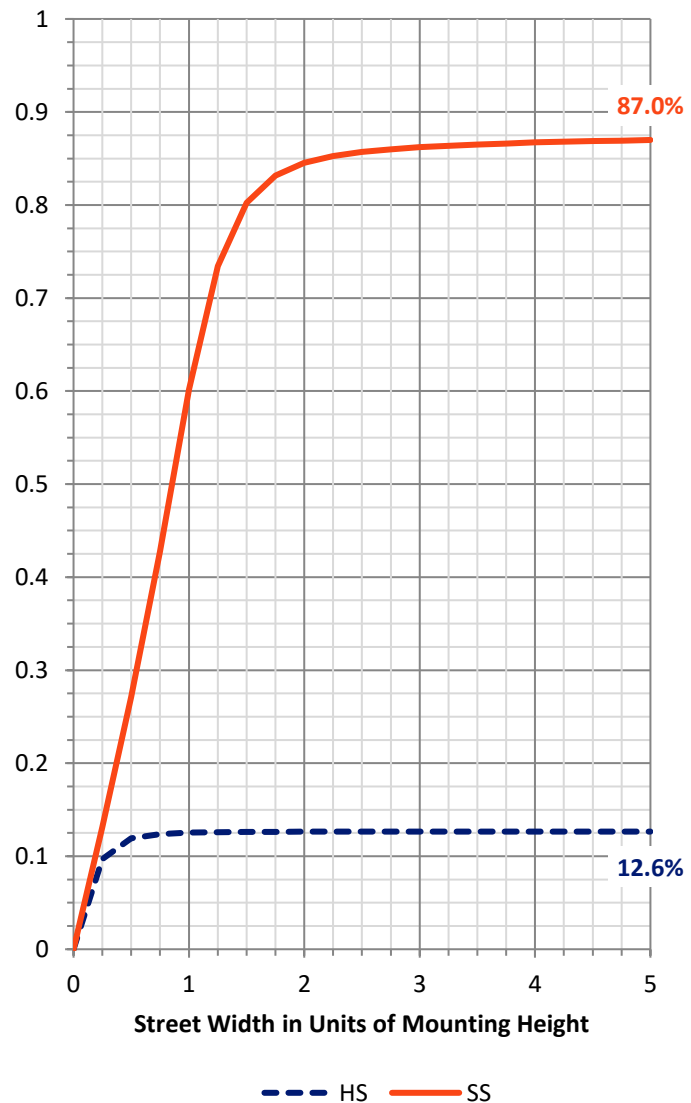
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2167.7	0.0	2167.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	14785.4	0.0	14785.4
	% Fixture	87.2	0.0	87.2
Total	Lumens	16953.1	0.0	16953.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.5	1.2
10°-20°	548.8	3.2
20°-30°	921.7	5.4
30°-40°	1766.9	10.4
40°-50°	3608.9	21.3
50°-60°	4775.8	28.2
60°-70°	3710.0	21.9
70°-80°	1339.1	7.9
80°-90°	85.3	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°	16953.1	100.0
0°-180°	16953.1	100.0



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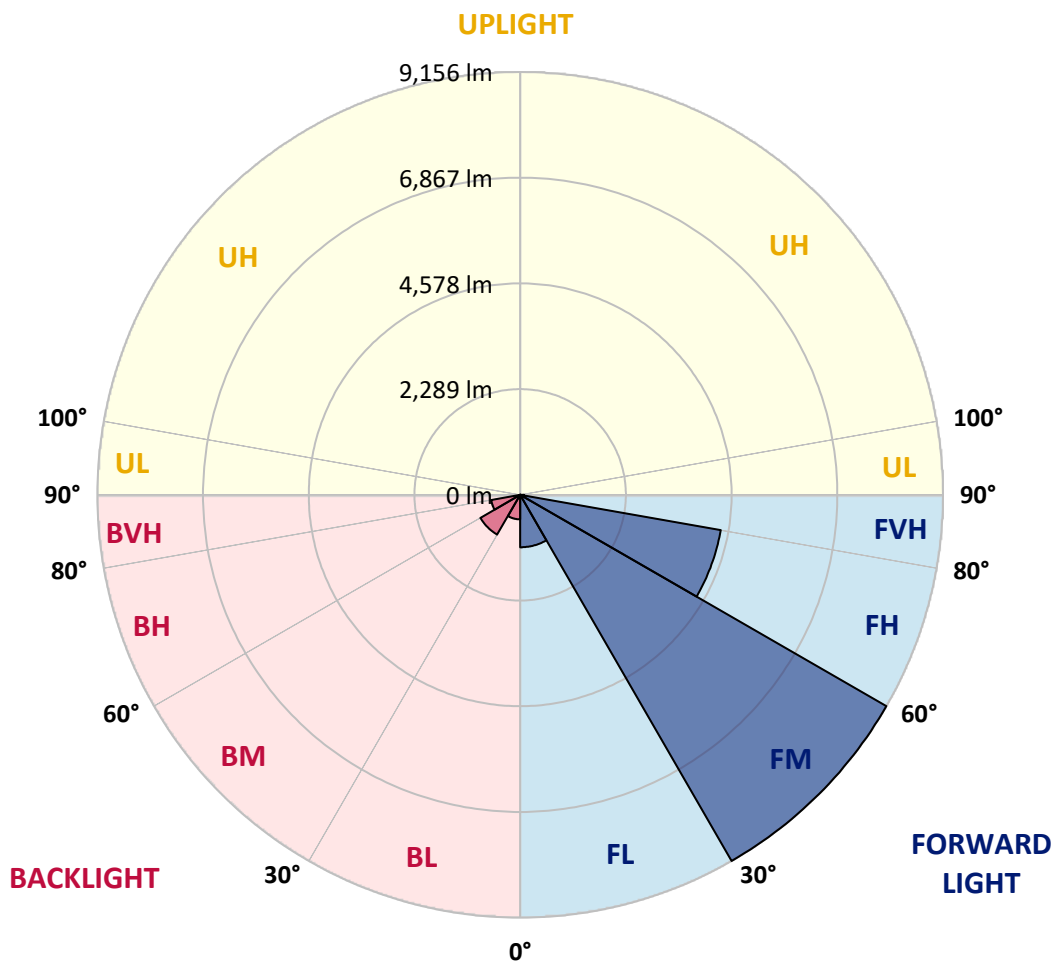
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1136.6	6.7			
FM	(30°-60°)	9156.4	54.0			
FH	(60°-80°)	4410.8	26.0			G2/5000
FVH	(80°-90°)	81.6	0.5			G1/100
BL	(0°-30°)	530.5	3.1	B2/1000		
BM	(30°-60°)	995.1	5.9	B1/1000		
BH	(60°-80°)	638.3	3.8	B2/1000		G2/1000
BVH	(80°-90°)	3.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	2042.2	2042.2	2042.2	2042.2	2042.2	2042.2	2042.2	2042.2	2042.2	2042.2	2042.2
2.5°	2096.5	2092.2	2088.1	2083.9	2083.9	2079.8	2075.5	2067.2	2058.8	2050.7	2046.3
5°	2134.0	2129.7	2125.6	2129.7	2125.6	2125.6	2121.3	2113.1	2104.8	2092.2	2079.8
7.5°	2163.1	2158.9	2154.8	2158.9	2163.1	2167.3	2171.5	2163.1	2158.9	2142.3	2129.7
10°	2200.6	2196.4	2192.3	2200.6	2200.6	2221.5	2225.6	2221.5	2217.2	2204.8	2183.9
12.5°	2254.7	2259.0	2259.0	2267.3	2275.6	2300.6	2309.0	2296.4	2296.4	2279.8	2254.7
15°	2354.7	2354.7	2354.7	2363.1	2367.4	2400.7	2409.0	2396.5	2404.9	2375.7	2350.7
17.5°	2450.7	2454.9	2463.2	2479.9	2479.9	2509.1	2525.7	2525.7	2542.4	2504.8	2471.4
20°	2546.5	2550.6	2563.3	2600.8	2600.8	2638.2	2667.3	2680.0	2696.5	2659.1	2600.8
22.5°	2650.7	2650.7	2671.6	2729.9	2717.5	2792.4	2846.5	2867.5	2884.1	2834.2	2742.4
25°	2809.1	2792.4	2809.1	2863.3	2855.0	2959.1	3059.2	3080.0	3100.9	3042.5	2904.9
27.5°	3109.2	3084.2	3025.9	3030.1	3030.1	3150.9	3292.6	3321.8	3334.2	3284.3	3113.3
30°	3709.3	3709.3	3492.6	3346.7	3250.8	3359.2	3559.4	3609.3	3626.0	3551.0	3326.0
32.5°	4755.4	4755.4	4355.3	3984.4	3621.8	3621.8	3851.0	3942.8	3959.4	3871.9	3609.3
35°	6089.3	6080.8	5480.6	4972.2	4263.6	3996.9	4192.7	4347.0	4397.1	4280.3	3976.1
37.5°	7506.1	7452.0	6806.0	6222.5	5251.4	4597.0	4655.5	4859.7	4905.6	4809.6	4451.2
40°	8656.5	8594.1	8073.1	7585.4	6526.7	5555.7	5322.3	5509.8	5564.0	5430.7	5018.0
42.5°	9698.6	9544.3	9185.9	8835.8	7993.8	7214.5	6210.1	6285.0	6343.4	6201.7	5655.6
45°	10452.9	10215.3	10031.9	9923.5	9477.6	9035.8	7360.4	7210.2	7231.1	7056.0	6351.7
47.5°	10473.7	10307.1	10323.6	10607.0	10790.4	10773.8	8856.6	8323.2	8243.9	7952.2	7093.6
50°	9473.4	9569.3	9873.5	10682.0	11674.1	12274.3	10636.2	9640.2	9402.6	8877.4	7831.3
52.5°	7806.4	7956.4	8527.3	9890.2	11803.2	13261.9	12482.6	11144.7	10719.7	9794.3	8398.2
55°	6114.1	6122.5	6722.6	8110.5	10940.5	13441.2	13958.0	12799.3	12149.1	10490.3	8773.2
57.5°	4205.3	4434.6	5197.2	6130.8	8994.1	12549.2	14512.3	14083.0	13245.2	10919.6	9035.8
60°	2754.9	2767.4	3655.2	4734.6	6122.5	10211.2	14174.7	14762.3	14133.0	11173.8	9215.1
62°	1942.1	1963.1	2513.2	3867.7	4613.8	7318.8	13428.7	14904.0	14633.2	11323.9	9402.6
62.5°	1800.6	1817.1	2279.8	3651.0	4334.5	6564.4	13162.0	14870.7	14708.2	11373.9	9469.3
65°	1321.1	1321.1	1492.1	2509.1	3175.9	3546.8	11153.0	14208.0	14608.1	11774.1	9719.3
67.5°	1021.2	1029.5	1087.8	1546.3	2396.5	2150.6	7118.6	12716.0	13566.3	12365.9	9861.1
70°	879.4	875.3	916.9	1025.2	1729.6	1429.6	3134.1	9923.5	11361.5	12215.8	9731.8
72.5°	650.2	654.3	750.3	900.2	1204.4	929.4	1417.0	5268.1	7368.6	9560.9	8339.8
75°	416.8	420.9	529.3	708.6	867.0	608.5	816.9	1571.2	3017.4	5301.4	5101.4
77.5°	279.3	287.5	345.9	496.0	758.6	379.3	512.7	658.5	908.5	1988.0	1829.7
80°	187.6	187.6	221.0	333.5	479.2	316.7	275.2	437.7	470.9	616.9	308.4
82.5°	125.0	125.0	145.9	221.0	312.6	283.4	166.7	237.5	275.2	308.4	108.3
85°	75.0	75.0	100.0	137.5	204.3	158.5	108.3	133.4	141.8	195.9	58.4
87.5°	45.9	41.7	66.7	95.8	108.3	95.8	70.8	70.8	75.0	108.3	29.1
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°	2042.2	2042.2	2042.2	2042.2	2042.2	2042.2	2042.2	2042.2	2042.2	2042.2	2042.2
2.5°	2038.1	2033.9	2029.7	2021.4	2008.9	2000.5	1992.3	1983.8	1975.6	1975.6	1988.0
5°	2075.5	2063.0	2046.3	2029.7	2004.7	1988.0	1975.6	1958.8	1950.5	1950.5	1954.7
7.5°	2121.3	2109.0	2079.8	2050.7	2013.0	1983.8	1954.7	1917.3	1888.0	1875.5	1888.0
10°	2171.5	2154.8	2113.1	2067.2	2025.6	1950.5	1854.7	1738.0	1638.0	1592.1	1612.9
12.5°	2233.9	2213.2	2163.1	2100.5	2004.7	1821.4	1583.7	1312.9	1141.9	1062.8	1079.5
15°	2325.6	2296.4	2225.6	2129.7	1917.3	1521.3	1133.7	821.1	662.7	595.9	604.3
17.5°	2434.0	2396.5	2300.6	2121.3	1692.1	1096.1	675.2	479.2	412.6	396.0	396.0
20°	2550.6	2500.7	2375.7	2058.8	1350.3	687.7	420.9	366.8	341.7	329.3	329.3
22.5°	2671.6	2604.8	2438.2	1913.0	962.8	429.3	345.9	308.4	279.3	266.7	266.7
25°	2817.4	2729.9	2500.7	1658.8	612.6	345.9	295.9	258.4	229.2	212.5	216.8
27.5°	2988.3	2875.7	2554.9	1342.1	396.0	300.0	245.9	208.3	183.3	175.1	175.1
30°	3167.6	3034.1	2567.4	1004.5	321.0	258.4	204.3	170.9	154.1	145.9	145.9
32.5°	3413.4	3238.4	2529.8	666.8	270.8	216.8	170.9	141.8	129.1	125.0	125.0
35°	3738.6	3505.1	2442.3	412.6	229.2	179.2	141.8	125.0	112.6	108.3	108.3
37.5°	4151.2	3876.0	2288.2	283.4	195.9	145.9	120.8	108.3	100.0	95.8	95.8
40°	4701.3	4326.1	2088.1	245.9	166.7	125.0	104.3	95.8	87.6	87.6	87.6
42.5°	5284.8	4872.1	1829.7	216.8	141.8	108.3	91.6	83.4	79.2	75.0	75.0
45°	5922.4	5430.7	1508.8	191.7	120.8	95.8	83.4	70.8	66.7	66.7	66.7
47.5°	6556.0	6005.8	1158.6	166.7	104.3	83.4	70.8	62.5	58.4	54.2	54.2
50°	7206.2	6526.7	850.2	145.9	91.6	75.0	62.5	54.2	45.9	41.7	41.7
52.5°	7677.2	6839.3	621.0	125.0	79.2	62.5	50.0	41.7	33.3	29.1	29.1
55°	8023.0	7031.2	454.4	104.3	70.8	54.2	41.7	33.3	25.1	25.1	20.8
57.5°	8294.0	7122.8	341.7	91.6	62.5	45.9	33.3	25.1	20.8	16.7	16.7
60°	8502.3	7127.0	254.2	75.0	54.2	37.5	25.1	16.7	12.4	12.4	12.4
62°	8777.3	7181.1	208.3	62.5	50.0	33.3	20.8	12.4	8.4	4.1	4.1
62.5°	8856.6	7202.0	200.1	62.5	45.9	29.1	16.7	12.4	8.4	4.1	4.1
65°	9223.3	7239.5	154.1	50.0	37.5	25.1	12.4	8.4	0.0	0.0	0.0
67.5°	9556.8	7181.1	112.6	37.5	29.1	16.7	12.4	4.1	0.0	0.0	0.0
70°	9523.4	6781.0	79.2	25.1	20.8	12.4	8.4	0.0	0.0	0.0	0.0
72.5°	7848.0	5076.4	54.2	20.8	12.4	8.4	4.1	0.0	0.0	0.0	0.0
75°	4738.7	2221.5	37.5	12.4	12.4	8.4	4.1	0.0	0.0	0.0	0.0
77.5°	1554.5	804.4	25.1	8.4	8.4	4.1	4.1	0.0	0.0	0.0	0.0
80°	254.2	133.4	12.4	8.4	8.4	4.1	4.1	0.0	0.0	0.0	0.0
82.5°	79.2	33.3	8.4	8.4	4.1	4.1	0.0	0.0	0.0	0.0	0.0
85°	29.1	12.4	8.4	8.4	4.1	4.1	0.0	0.0	0.0	0.0	0.0
87.5°	12.4	8.4	8.4	8.4	4.1	4.1	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)