

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: P265710

Luminaire Tested: **ARCH-L-AF72-240-D-U-T2U-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265710
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-AF72-240-D-U-T2U-7027-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1030mA 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: 16572.4 lumens
Efficiency: N/A
Efficacy: 68.5 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): 242
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

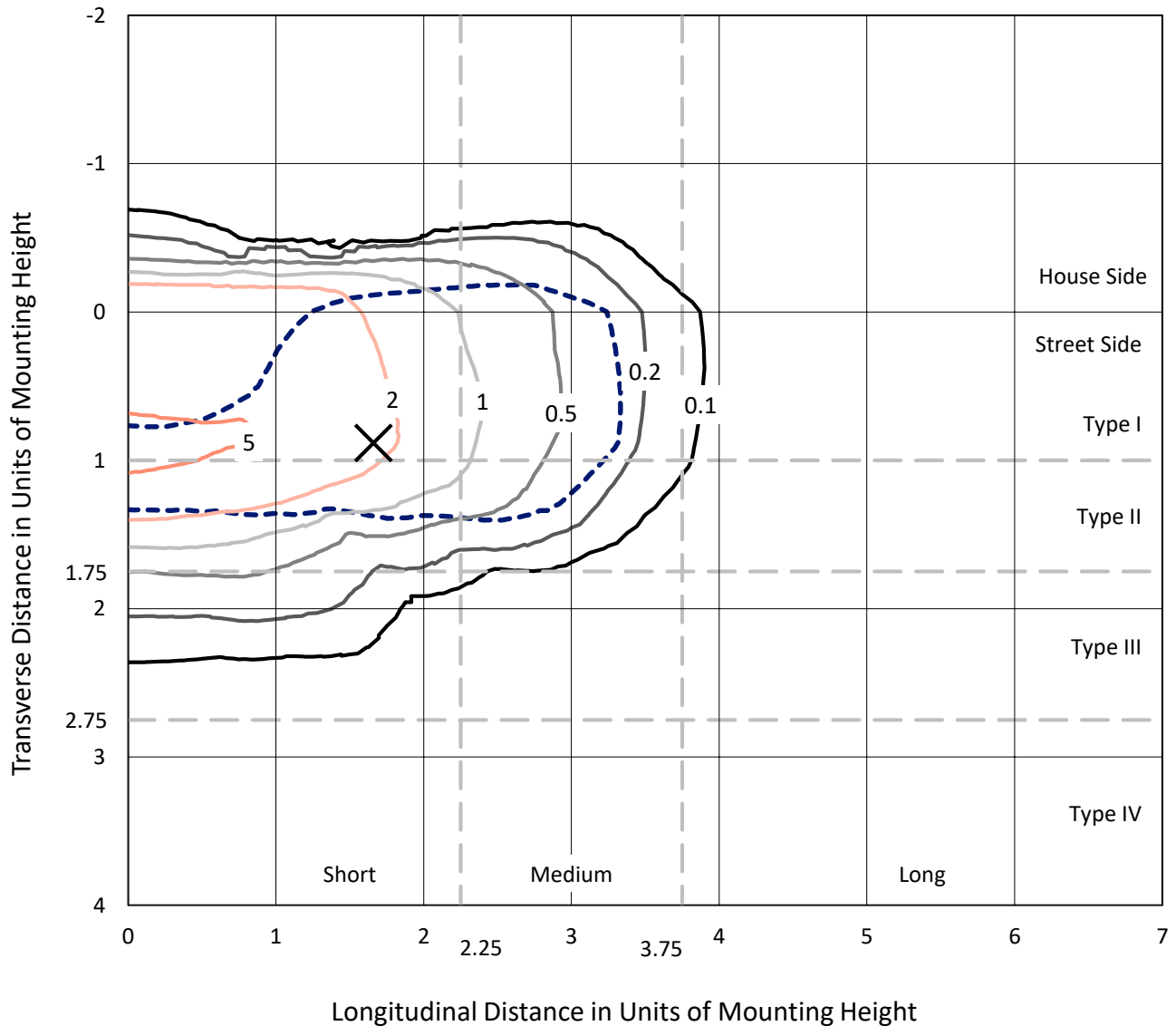


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

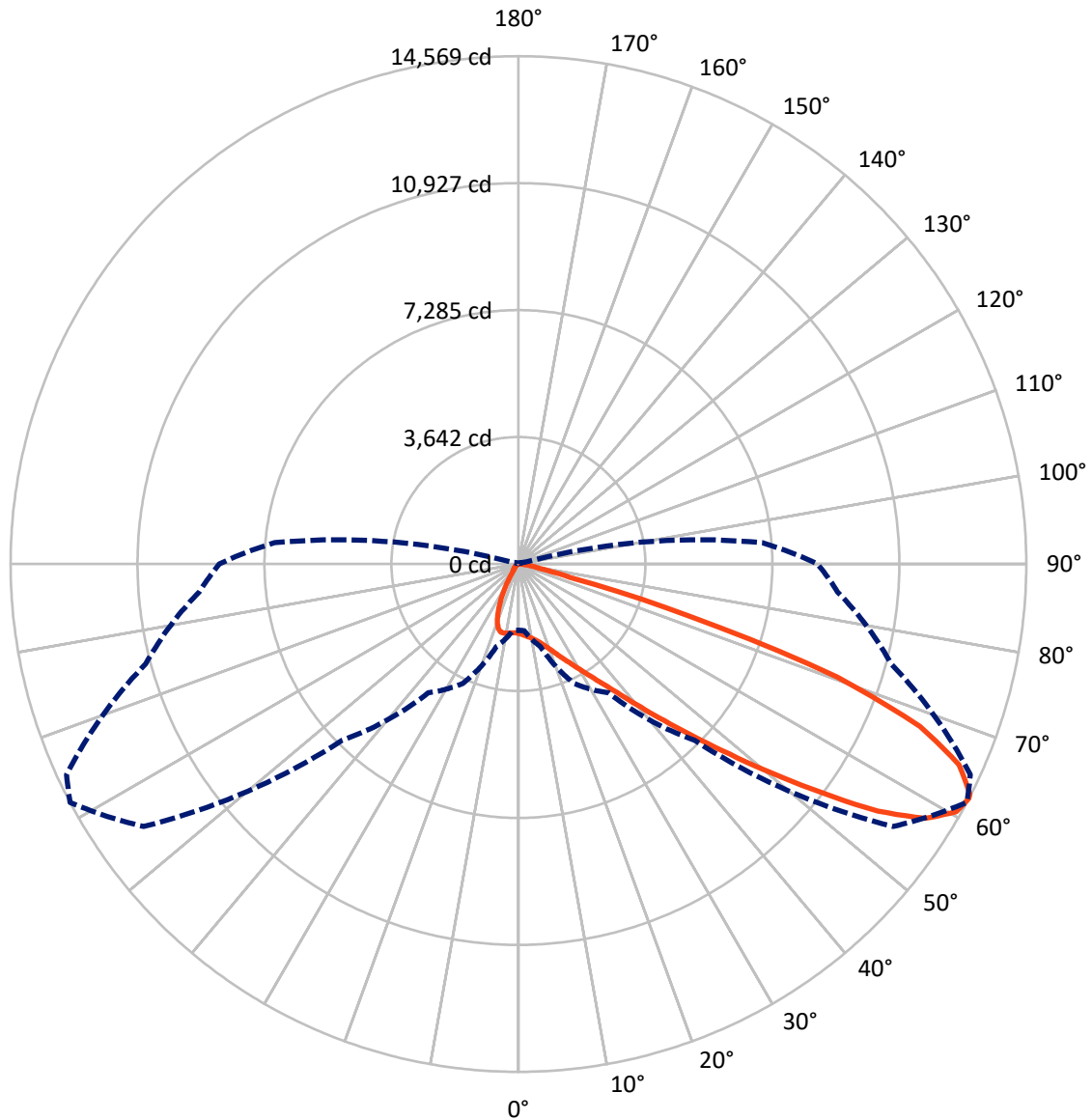


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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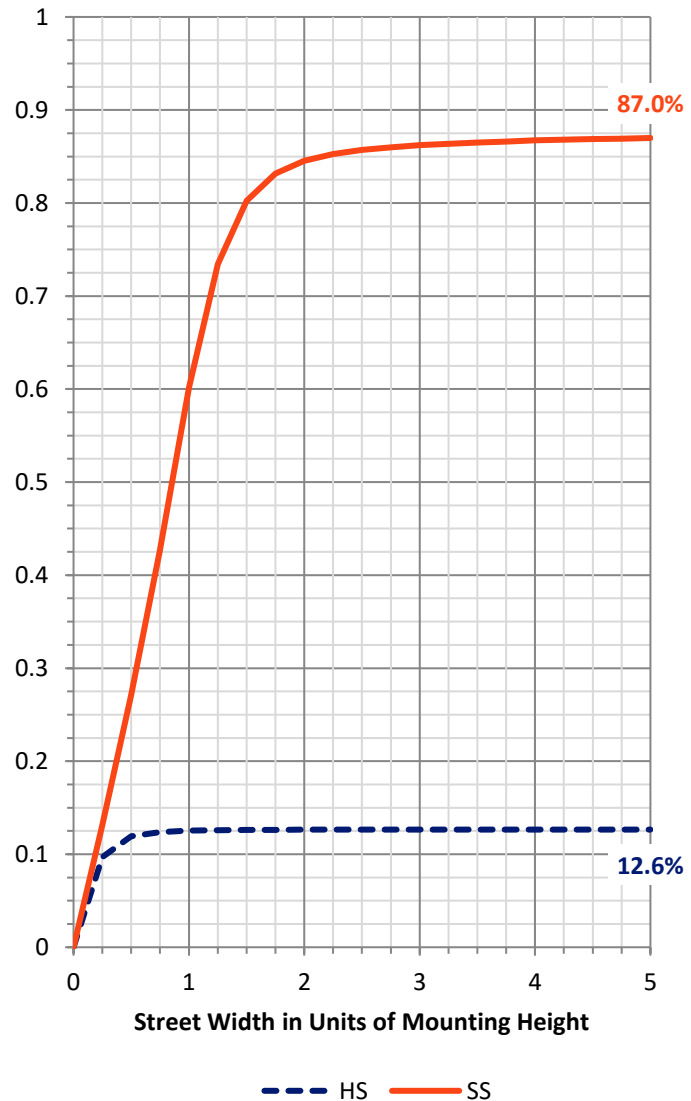
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2119.0	0.0	2119.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	14453.3	0.0	14453.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	16572.4	0.0	16572.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.1	1.2
10°-20°	536.5	3.2
20°-30°	901.0	5.4
30°-40°	1727.2	10.4
40°-50°	3527.8	21.3
50°-60°	4668.5	28.2
60°-70°	3626.7	21.9
70°-80°	1309.1	7.9
80°-90°	83.4	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°	16572.4	100.0
0°-180°	16572.4	100.0



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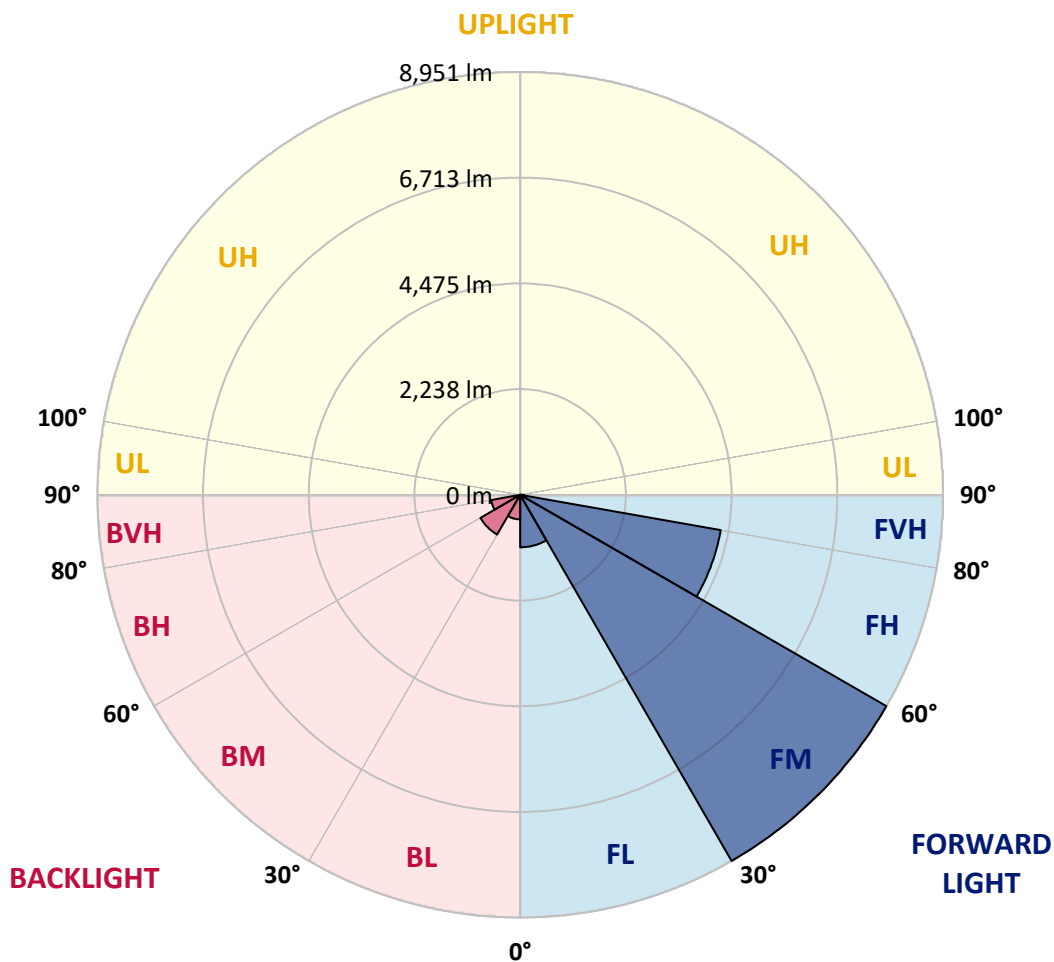
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1111.0	6.7			
FM	(30°-60°)	8950.8	54.0			
FH	(60°-80°)	4311.8	26.0			G2/5000
FVH	(80°-90°)	79.8	0.5			G1/100
BL	(0°-30°)	518.6	3.1	B2/1000		
BM	(30°-60°)	972.8	5.9	B1/1000		
BH	(60°-80°)	624.0	3.8	B2/1000		G2/1000
BVH	(80°-90°)	3.6	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°	1996.4	1996.4	1996.4	1996.4	1996.4	1996.4	1996.4	1996.4	1996.4	1996.4	1996.4
2.5°	2049.4	2045.3	2041.2	2037.0	2037.0	2033.0	2028.9	2020.7	2012.7	2004.5	2000.4
5°	2086.0	2081.9	2077.8	2081.9	2077.8	2077.8	2073.7	2065.7	2057.5	2045.3	2033.0
7.5°	2114.5	2110.4	2106.3	2110.4	2114.5	2118.7	2122.7	2114.5	2110.4	2094.0	2081.9
10°	2151.3	2147.0	2143.0	2151.3	2151.3	2171.6	2175.7	2171.6	2167.5	2155.3	2134.9
12.5°	2204.1	2208.3	2208.3	2216.4	2224.6	2248.9	2257.1	2244.9	2244.9	2228.5	2204.1
15°	2301.8	2301.8	2301.8	2310.0	2314.2	2346.7	2354.8	2342.7	2350.9	2322.3	2297.9
17.5°	2395.6	2399.7	2407.8	2424.2	2424.2	2452.6	2468.9	2468.9	2485.3	2448.6	2416.0
20°	2489.4	2493.3	2505.6	2542.4	2542.4	2578.9	2607.5	2619.6	2635.9	2599.3	2542.4
22.5°	2591.3	2591.3	2611.6	2668.5	2656.4	2729.7	2782.7	2803.0	2819.3	2770.5	2680.8
25°	2745.9	2729.7	2745.9	2798.9	2790.9	2892.7	2990.5	3010.8	3031.2	2974.2	2839.7
27.5°	3039.3	3014.9	2957.8	2961.9	2961.9	3080.1	3218.5	3247.2	3259.3	3210.5	3043.4
30°	3626.0	3626.0	3414.2	3271.5	3177.8	3283.8	3479.3	3528.3	3544.5	3471.2	3251.1
32.5°	4648.6	4648.6	4257.5	3895.0	3540.5	3540.5	3764.5	3854.2	3870.4	3784.9	3528.3
35°	5952.3	5944.3	5357.5	4860.5	4167.9	3907.2	4098.6	4249.4	4298.3	4184.1	3886.7
37.5°	7337.6	7284.6	6653.1	6082.8	5133.5	4493.9	4550.9	4750.4	4795.3	4701.5	4351.2
40°	8462.0	8400.9	7891.7	7415.0	6380.2	5431.0	5202.8	5386.1	5439.1	5308.7	4905.4
42.5°	9480.6	9329.8	8979.5	8637.3	7814.3	7052.5	6070.6	6143.9	6200.9	6062.4	5528.7
45°	10218.1	9985.7	9806.5	9700.6	9264.7	8832.9	7195.1	7048.3	7068.8	6897.5	6209.1
47.5°	10238.4	10075.5	10091.7	10368.7	10548.1	10531.8	8657.7	8136.2	8058.8	7773.6	6934.2
50°	9260.6	9354.3	9651.7	10442.2	11411.8	11998.5	10397.3	9423.6	9191.4	8678.0	7655.4
52.5°	7630.9	7777.6	8335.8	9668.1	11538.1	12964.1	12202.1	10894.4	10478.8	9574.3	8209.5
55°	5976.9	5985.0	6571.7	7928.4	10694.7	13139.2	13644.4	12511.9	11876.2	10254.7	8576.2
57.5°	4110.9	4335.0	5080.5	5993.1	8792.2	12267.3	14186.4	13766.6	12947.8	10674.4	8832.9
60°	2692.9	2705.2	3573.1	4628.2	5985.0	9981.7	13856.3	14430.7	13815.6	10922.9	9008.1
62°	1898.6	1918.9	2456.8	3780.8	4510.1	7154.3	13127.0	14569.3	14304.5	11069.5	9191.4
62.5°	1760.0	1776.4	2228.5	3569.0	4237.1	6416.9	12866.2	14536.7	14377.8	11118.4	9256.6
65°	1291.6	1291.6	1458.6	2452.6	3104.5	3467.2	10902.5	13889.0	14280.0	11509.5	9501.1
67.5°	998.1	1006.3	1063.4	1511.5	2342.7	2102.3	6958.7	12430.3	13261.5	12088.1	9639.5
70°	859.7	855.5	896.2	1002.2	1690.8	1397.5	3063.8	9700.6	11106.3	11941.4	9513.2
72.5°	635.6	639.7	733.3	880.0	1177.5	908.5	1385.2	5149.8	7203.1	9346.1	8152.5
75°	407.4	411.6	517.5	692.7	847.5	594.9	798.6	1535.9	2949.8	5182.3	4986.9
77.5°	272.9	281.1	338.1	484.8	741.6	370.7	501.2	643.7	888.2	1943.5	1788.5
80°	183.3	183.3	216.0	325.9	468.6	309.6	269.0	427.9	460.4	603.0	301.6
82.5°	122.2	122.2	142.7	216.0	305.6	277.0	163.0	232.2	269.0	301.6	105.9
85°	73.3	73.3	97.7	134.4	199.7	154.8	105.9	130.3	138.5	191.5	57.0
87.5°	44.8	40.8	65.1	93.8	105.9	93.8	69.3	69.3	73.3	105.9	28.6
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°	1996.4	1996.4	1996.4	1996.4	1996.4	1996.4	1996.4	1996.4	1996.4	1996.4	1996.4
2.5°	1992.4	1988.2	1984.1	1976.0	1963.8	1955.6	1947.4	1939.4	1931.1	1931.1	1943.5
5°	2028.9	2016.8	2000.4	1984.1	1959.7	1943.5	1931.1	1914.8	1906.7	1906.7	1910.8
7.5°	2073.7	2061.5	2033.0	2004.5	1967.8	1939.4	1910.8	1874.1	1845.6	1833.4	1845.6
10°	2122.7	2106.3	2065.7	2020.7	1980.0	1906.7	1813.0	1699.0	1601.1	1556.4	1576.7
12.5°	2183.8	2163.4	2114.5	2053.3	1959.7	1780.4	1548.1	1283.4	1116.4	1038.9	1055.1
15°	2273.4	2244.9	2175.7	2081.9	1874.1	1487.1	1108.1	802.6	647.8	582.6	590.7
17.5°	2379.3	2342.7	2248.9	2073.7	1654.0	1071.5	660.1	468.6	403.3	387.1	387.1
20°	2493.3	2444.5	2322.3	2012.7	1320.0	672.2	411.6	358.6	334.1	321.9	321.9
22.5°	2611.6	2546.3	2383.5	1870.0	941.2	419.7	338.1	301.6	272.9	260.8	260.8
25°	2754.2	2668.5	2444.5	1621.5	598.9	338.1	289.3	252.7	224.0	207.8	211.9
27.5°	2921.2	2811.2	2497.5	1311.9	387.1	293.3	240.3	203.7	179.2	171.0	171.0
30°	3096.4	2966.1	2509.8	981.8	313.7	252.7	199.7	167.1	150.7	142.7	142.7
32.5°	3336.8	3165.6	2473.0	651.9	264.8	211.9	167.1	138.5	126.3	122.2	122.2
35°	3654.6	3426.3	2387.4	403.3	224.0	175.2	138.5	122.2	110.0	105.9	105.9
37.5°	4058.0	3789.1	2236.7	277.0	191.5	142.7	118.1	105.9	97.7	93.8	93.8
40°	4595.6	4229.0	2041.2	240.3	163.0	122.2	101.9	93.8	85.6	85.6	85.6
42.5°	5166.1	4762.8	1788.5	211.9	138.5	105.9	89.7	81.4	77.4	73.3	73.3
45°	5789.4	5308.7	1474.8	187.3	118.1	93.8	81.4	69.3	65.1	65.1	65.1
47.5°	6408.7	5871.0	1132.7	163.0	101.9	81.4	69.3	61.2	57.0	53.0	53.0
50°	7044.2	6380.2	831.1	142.7	89.7	73.3	61.2	53.0	44.8	40.8	40.8
52.5°	7504.6	6685.7	607.1	122.2	77.4	61.2	48.9	40.8	32.6	28.6	28.6
55°	7842.8	6873.1	444.1	101.9	69.3	53.0	40.8	32.6	24.4	24.4	20.4
57.5°	8107.7	6962.9	334.1	89.7	61.2	44.8	32.6	24.4	20.4	16.3	16.3
60°	8311.4	6966.9	248.6	73.3	53.0	36.7	24.4	16.3	12.2	12.2	12.2
62°	8580.3	7019.9	203.7	61.2	48.9	32.6	20.4	12.2	8.2	4.1	4.1
62.5°	8657.7	7040.1	195.7	61.2	44.8	28.6	16.3	12.2	8.2	4.1	4.1
65°	9016.2	7076.8	150.7	48.9	36.7	24.4	12.2	8.2	0.0	0.0	0.0
67.5°	9342.2	7019.9	110.0	36.7	28.6	16.3	12.2	4.1	0.0	0.0	0.0
70°	9309.6	6628.8	77.4	24.4	20.4	12.2	8.2	0.0	0.0	0.0	0.0
72.5°	7671.6	4962.3	53.0	20.4	12.2	8.2	4.1	0.0	0.0	0.0	0.0
75°	4632.4	2171.6	36.7	12.2	12.2	8.2	4.1	0.0	0.0	0.0	0.0
77.5°	1519.7	786.3	24.4	8.2	8.2	4.1	4.1	0.0	0.0	0.0	0.0
80°	248.6	130.3	12.2	8.2	8.2	4.1	4.1	0.0	0.0	0.0	0.0
82.5°	77.4	32.6	8.2	8.2	4.1	4.1	0.0	0.0	0.0	0.0	0.0
85°	28.6	12.2	8.2	8.2	4.1	4.1	0.0	0.0	0.0	0.0	0.0
87.5°	12.2	8.2	8.2	8.2	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)