

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: P265674

Luminaire Tested: **ARCH-L-AF72-200-D-U-T2U-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265674
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-AF72-200-D-U-T2U-7027-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 860mA 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: 14659.4 lumens
Efficiency: N/A
Efficacy: 72.9 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): 201
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

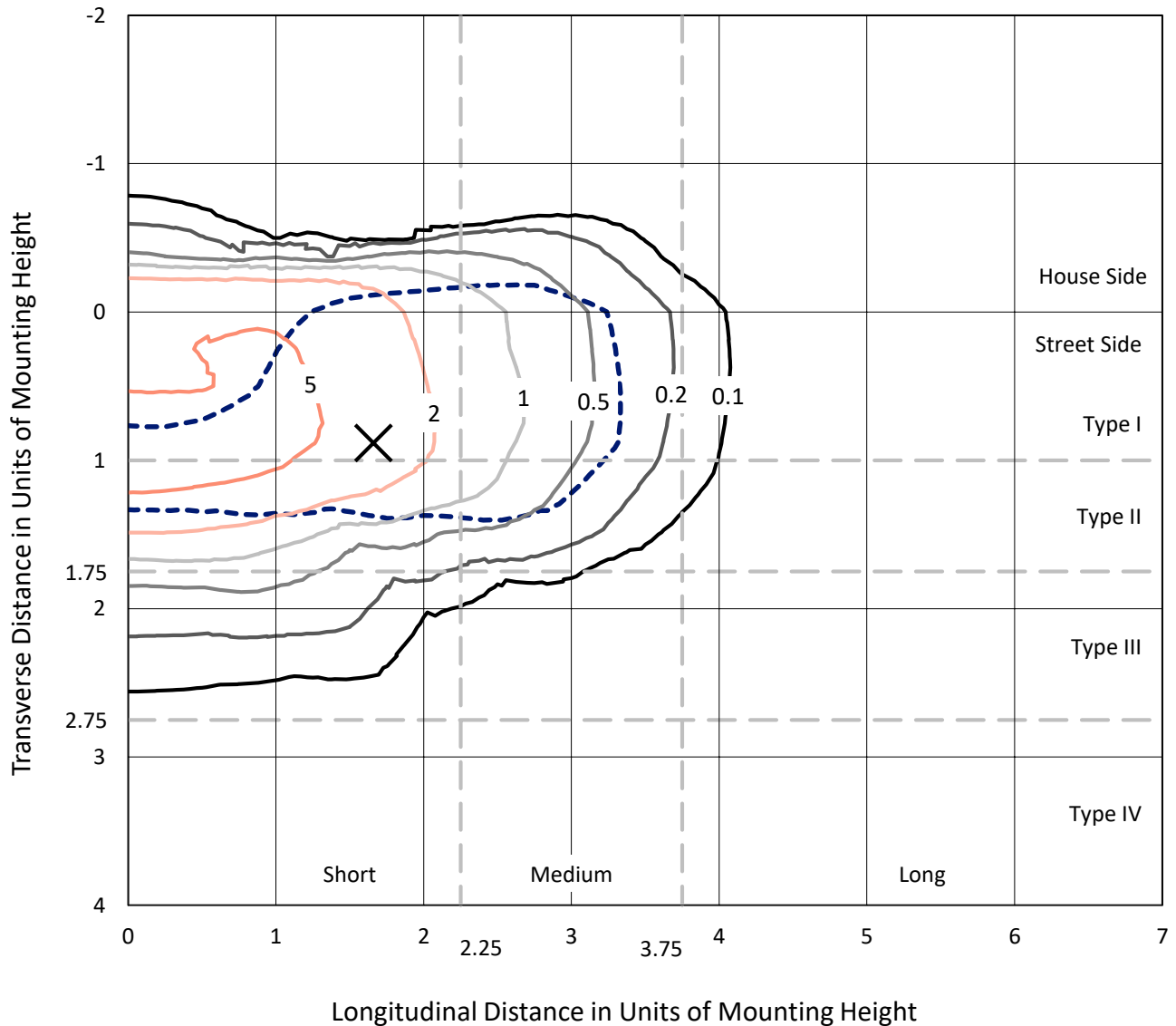


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

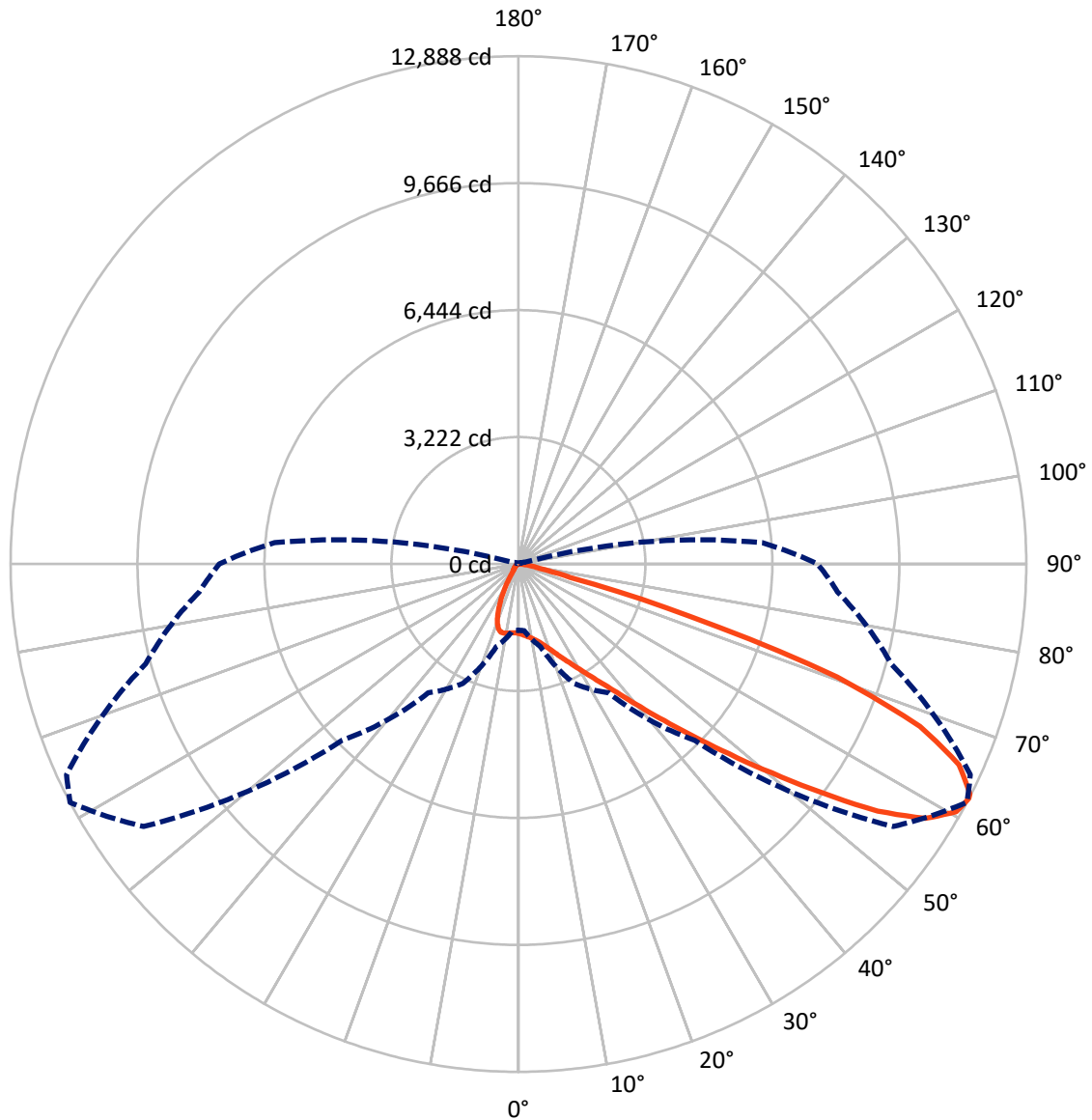


Based on 20 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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



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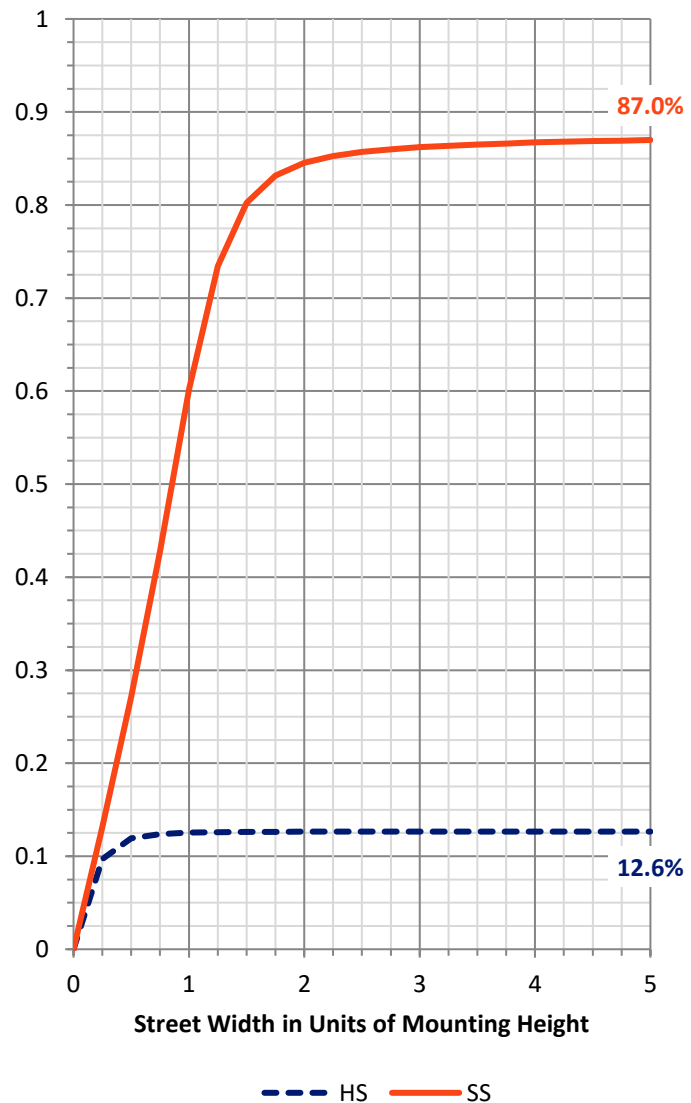
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1874.4	0.0	1874.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	12785.0	0.0	12785.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	14659.4	0.0	14659.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.9	1.2
10°-20°	474.6	3.2
20°-30°	797.0	5.4
30°-40°	1527.8	10.4
40°-50°	3120.6	21.3
50°-60°	4129.6	28.2
60°-70°	3208.0	21.9
70°-80°	1157.9	7.9
80°-90°	73.8	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°	14659.4	100.0
0°-180°	14659.4	100.0



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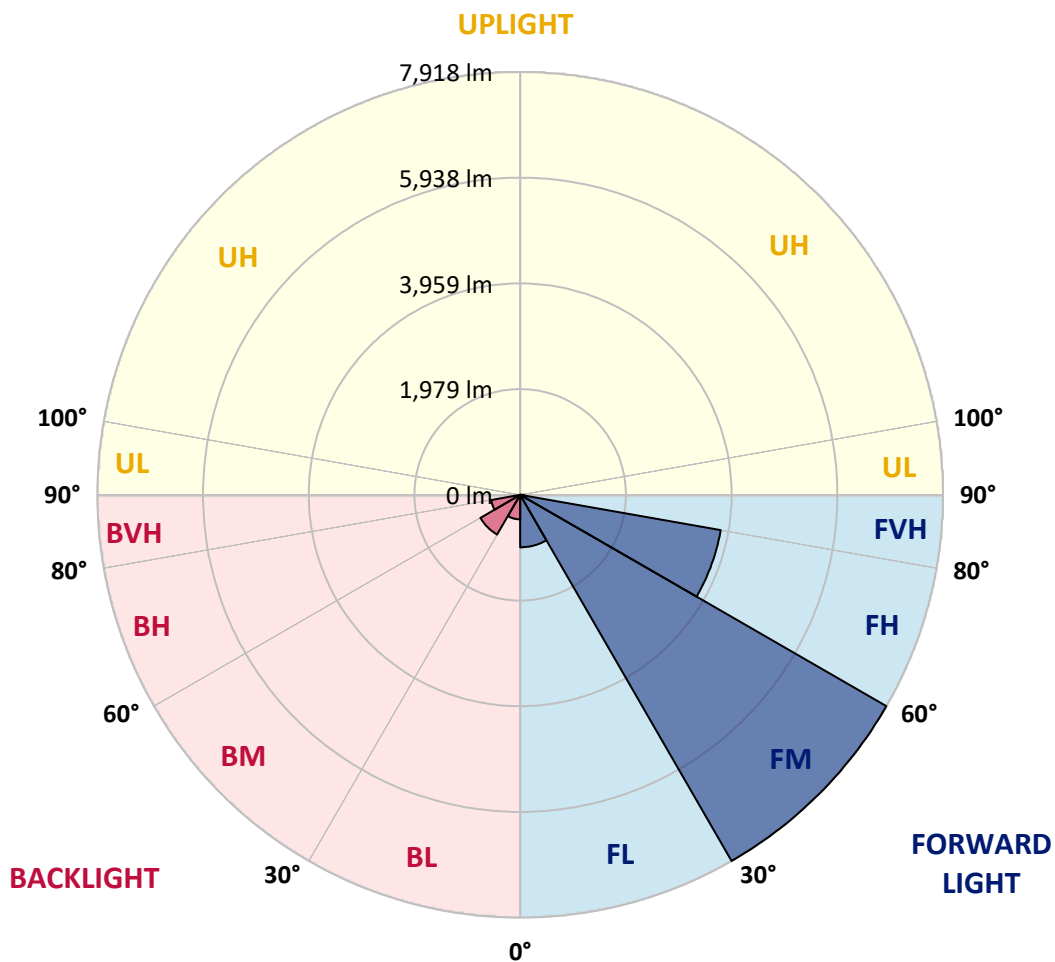
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	982.8	6.7			
FM	(30°-60°)	7917.6	54.0			
FH	(60°-80°)	3814.1	26.0			G2/5000
FVH	(80°-90°)	70.6	0.5			G1/100
BL	(0°-30°)	458.7	3.1	B1/500		
BM	(30°-60°)	860.5	5.9	B1/1000		
BH	(60°-80°)	551.9	3.8	B2/1000		G2/1000
BVH	(80°-90°)	3.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9
2.5°	1812.8	1809.1	1805.6	1802.0	1802.0	1798.3	1794.8	1787.5	1780.4	1773.2	1769.5
5°	1845.2	1841.5	1838.0	1841.5	1838.0	1838.0	1834.3	1827.2	1820.0	1809.1	1798.3
7.5°	1870.5	1866.8	1863.3	1866.8	1870.5	1874.0	1877.6	1870.5	1866.8	1852.5	1841.5
10°	1902.9	1899.2	1895.7	1902.9	1902.9	1920.8	1924.4	1920.8	1917.3	1906.5	1888.4
12.5°	1949.7	1953.4	1953.4	1960.6	1967.7	1989.3	1996.6	1985.8	1985.8	1971.3	1949.7
15°	2036.2	2036.2	2036.2	2043.5	2047.0	2075.9	2083.1	2072.2	2079.4	2054.2	2032.7
17.5°	2119.1	2122.8	2129.9	2144.3	2144.3	2169.5	2184.0	2184.0	2198.4	2166.0	2137.1
20°	2201.9	2205.6	2216.4	2248.8	2248.8	2281.2	2306.5	2317.3	2331.7	2299.3	2248.8
22.5°	2292.0	2292.0	2310.1	2360.6	2349.7	2414.6	2461.4	2479.5	2494.0	2450.7	2371.3
25°	2429.0	2414.6	2429.0	2475.9	2468.7	2558.8	2645.2	2663.3	2681.4	2630.9	2511.9
27.5°	2688.4	2666.9	2616.5	2620.0	2620.0	2724.6	2847.1	2872.3	2883.1	2839.9	2692.1
30°	3207.5	3207.5	3020.1	2893.9	2811.1	2904.8	3077.8	3121.0	3135.4	3070.5	2876.0
32.5°	4112.0	4112.0	3766.1	3445.3	3131.9	3131.9	3329.9	3409.2	3423.7	3348.1	3121.0
35°	5265.3	5258.0	4739.2	4299.5	3686.9	3456.1	3625.5	3758.9	3802.2	3701.2	3438.2
37.5°	6490.7	6443.8	5885.2	5380.7	4540.9	3975.1	4025.6	4202.1	4241.7	4159.0	3849.0
40°	7485.3	7431.3	6980.8	6559.2	5643.7	4804.0	4602.1	4764.4	4811.2	4695.9	4339.2
42.5°	8386.2	8253.0	7943.1	7640.3	6912.3	6238.4	5369.8	5434.7	5485.1	5362.6	4890.6
45°	9038.7	8833.3	8674.7	8580.9	8195.2	7813.3	6364.5	6234.7	6252.8	6101.4	5492.3
47.5°	9056.6	8912.4	8926.8	9172.0	9330.5	9316.1	7658.3	7197.0	7128.5	6876.3	6133.8
50°	8191.7	8274.6	8537.8	9236.8	10094.6	10613.6	9197.1	8335.8	8130.4	7676.3	6771.8
52.5°	6750.1	6879.8	7373.6	8552.0	10206.3	11467.7	10793.8	9636.8	9269.3	8469.2	7261.9
55°	5287.0	5294.2	5813.1	7013.2	9460.3	11622.6	12069.4	11067.6	10505.4	9071.1	7586.2
57.5°	3636.3	3834.5	4494.1	5301.3	7777.3	10851.3	12548.9	12177.7	11453.2	9442.3	7813.3
60°	2382.1	2392.9	3160.6	4094.0	5294.2	8829.6	12257.0	12765.0	12220.8	9662.1	7968.2
62°	1679.4	1697.4	2173.2	3344.4	3989.6	6328.5	11611.9	12887.7	12653.3	9791.9	8130.4
62.5°	1556.9	1571.3	1971.3	3157.1	3748.1	5676.2	11381.2	12858.8	12718.3	9835.1	8188.1
65°	1142.5	1142.5	1290.1	2169.5	2746.2	3067.0	9644.1	12285.7	12631.6	10181.0	8404.4
67.5°	882.9	890.2	940.6	1337.0	2072.2	1859.6	6155.5	10995.6	11730.7	10692.9	8526.8
70°	760.4	756.8	792.8	886.5	1495.6	1236.2	2710.1	8580.9	9824.3	10563.1	8415.1
72.5°	562.2	565.8	648.7	778.4	1041.6	803.7	1225.3	4555.3	6371.7	8267.5	7211.5
75°	360.4	364.1	457.6	612.6	749.6	526.1	706.3	1358.6	2609.2	4584.2	4411.1
77.5°	241.5	248.7	299.1	428.9	655.9	327.9	443.3	569.4	785.7	1719.0	1582.2
80°	162.1	162.1	191.0	288.4	414.5	274.0	237.8	378.5	407.2	533.4	266.6
82.5°	108.2	108.2	126.1	191.0	270.3	245.1	144.2	205.4	237.8	266.6	93.8
85°	64.9	64.9	86.4	118.9	176.5	136.9	93.8	115.3	122.4	169.4	50.5
87.5°	39.6	36.0	57.8	83.0	93.8	83.0	61.3	61.3	64.9	93.8	25.2
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°	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9	1765.9
2.5°	1762.4	1758.7	1755.1	1747.9	1737.1	1729.9	1722.7	1715.5	1708.2	1708.2	1719.0
5°	1794.8	1783.9	1769.5	1755.1	1733.5	1719.0	1708.2	1693.8	1686.7	1686.7	1690.3
7.5°	1834.3	1823.6	1798.3	1773.2	1740.6	1715.5	1690.3	1657.8	1632.6	1621.8	1632.6
10°	1877.6	1863.3	1827.2	1787.5	1751.4	1686.7	1603.7	1502.9	1416.4	1376.7	1394.7
12.5°	1931.6	1913.7	1870.5	1816.4	1733.5	1574.9	1369.5	1135.3	987.4	919.0	933.3
15°	2010.9	1985.8	1924.4	1841.5	1657.8	1315.4	980.3	710.0	572.9	515.4	522.5
17.5°	2104.6	2072.2	1989.3	1834.3	1463.2	947.8	583.8	414.5	356.7	342.3	342.3
20°	2205.6	2162.3	2054.2	1780.4	1167.6	594.7	364.1	317.1	295.5	284.8	284.8
22.5°	2310.1	2252.4	2108.3	1654.1	832.5	371.2	299.1	266.6	241.5	230.7	230.7
25°	2436.3	2360.6	2162.3	1434.4	529.8	299.1	255.8	223.5	198.3	183.9	187.3
27.5°	2584.1	2486.7	2209.2	1160.5	342.3	259.5	212.5	180.2	158.6	151.4	151.4
30°	2739.0	2623.7	2220.0	868.5	277.4	223.5	176.5	147.7	133.4	126.1	126.1
32.5°	2951.7	2800.2	2187.6	576.6	234.3	187.3	147.7	122.4	111.7	108.2	108.2
35°	3232.7	3030.9	2111.8	356.7	198.3	155.0	122.4	108.2	97.2	93.8	93.8
37.5°	3589.4	3351.7	1978.5	245.1	169.4	126.1	104.6	93.8	86.4	83.0	83.0
40°	4065.2	3740.8	1805.6	212.5	144.2	108.2	90.1	83.0	75.6	75.6	75.6
42.5°	4569.8	4213.1	1582.2	187.3	122.4	93.8	79.3	72.0	68.5	64.9	64.9
45°	5121.1	4695.9	1304.6	165.7	104.6	83.0	72.0	61.3	57.8	57.8	57.8
47.5°	5668.9	5193.2	1001.9	144.2	90.1	72.0	61.3	54.1	50.5	46.8	46.8
50°	6231.2	5643.7	735.3	126.1	79.3	64.9	54.1	46.8	39.6	36.0	36.0
52.5°	6638.5	5914.0	536.9	108.2	68.5	54.1	43.3	36.0	28.8	25.2	25.2
55°	6937.5	6079.8	392.7	90.1	61.3	46.8	36.0	28.8	21.6	21.6	18.1
57.5°	7171.8	6159.0	295.5	79.3	54.1	39.6	28.8	21.6	18.1	14.5	14.5
60°	7352.0	6162.7	219.8	64.9	46.8	32.3	21.6	14.5	10.8	10.8	10.8
62°	7589.8	6209.5	180.2	54.1	43.3	28.8	18.1	10.8	7.1	3.7	3.7
62.5°	7658.3	6227.6	173.1	54.1	39.6	25.2	14.5	10.8	7.1	3.7	3.7
65°	7975.4	6260.0	133.4	43.3	32.3	21.6	10.8	7.1	0.0	0.0	0.0
67.5°	8263.8	6209.5	97.2	32.3	25.2	14.5	10.8	3.7	0.0	0.0	0.0
70°	8234.9	5863.5	68.5	21.6	18.1	10.8	7.1	0.0	0.0	0.0	0.0
72.5°	6786.2	4389.6	46.8	18.1	10.8	7.1	3.7	0.0	0.0	0.0	0.0
75°	4097.7	1920.8	32.3	10.8	10.8	7.1	3.7	0.0	0.0	0.0	0.0
77.5°	1344.3	695.6	21.6	7.1	7.1	3.7	3.7	0.0	0.0	0.0	0.0
80°	219.8	115.3	10.8	7.1	7.1	3.7	3.7	0.0	0.0	0.0	0.0
82.5°	68.5	28.8	7.1	7.1	3.7	3.7	0.0	0.0	0.0	0.0	0.0
85°	25.2	10.8	7.1	7.1	3.7	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	10.8	7.1	7.1	7.1	3.7	3.7	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)