

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: P265683

Luminaire Tested: **ARCH-L-AF72-210-D-U-T2U-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265683
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-AF72-210-D-U-T2U-7027-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 900mA 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: 15109 lumens
Efficiency: N/A
Efficacy: 71.6 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): 211
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

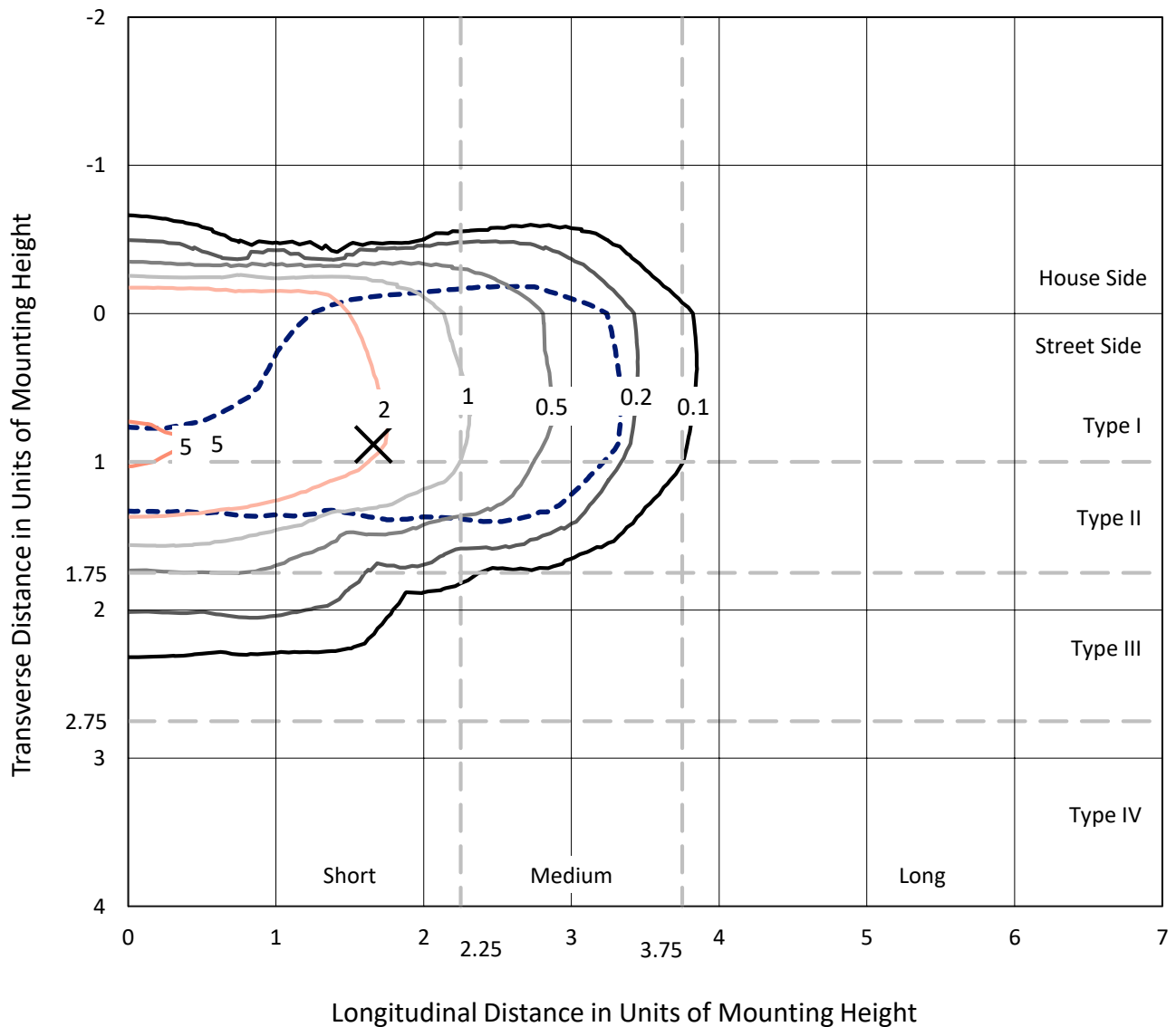


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

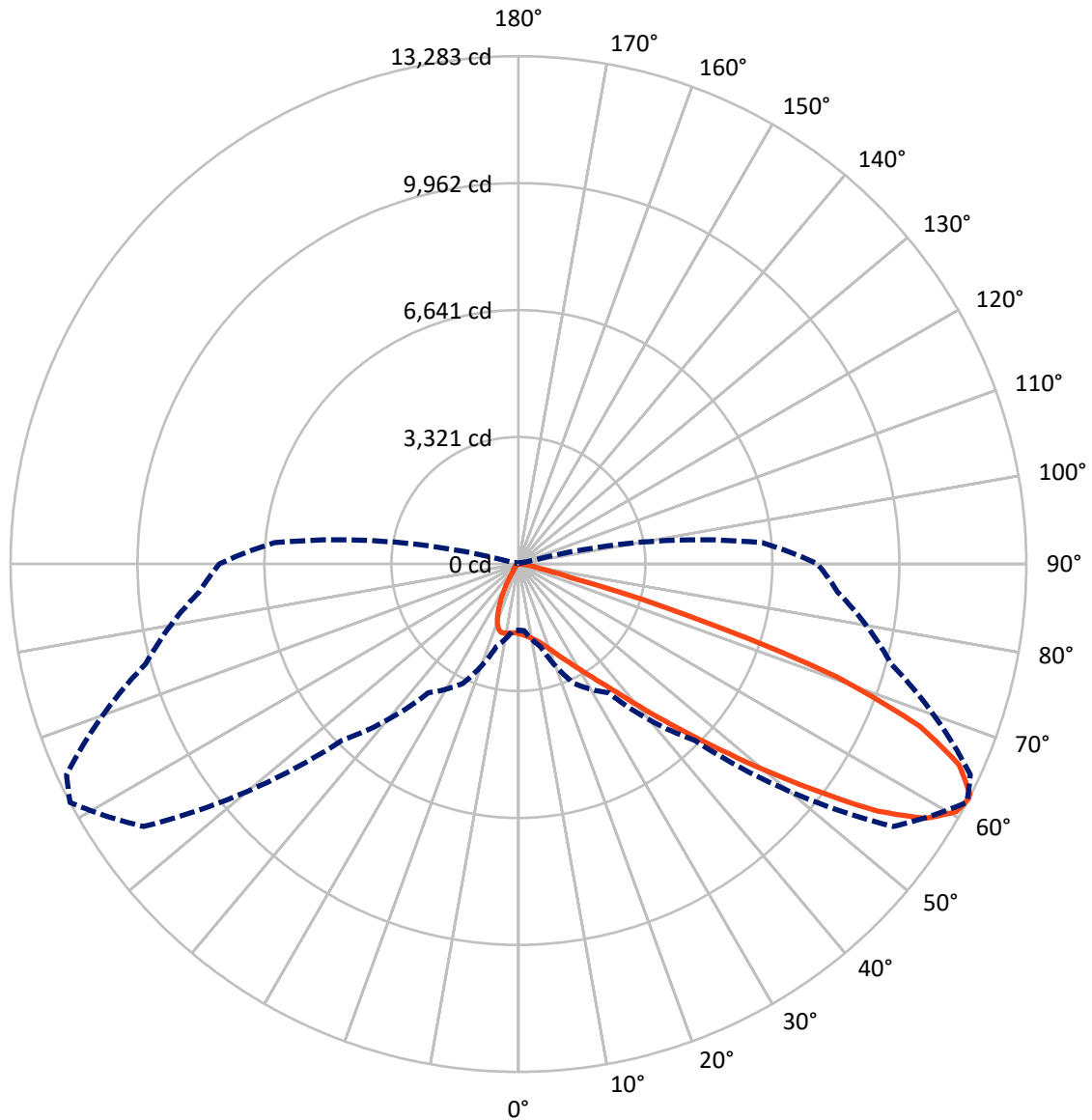


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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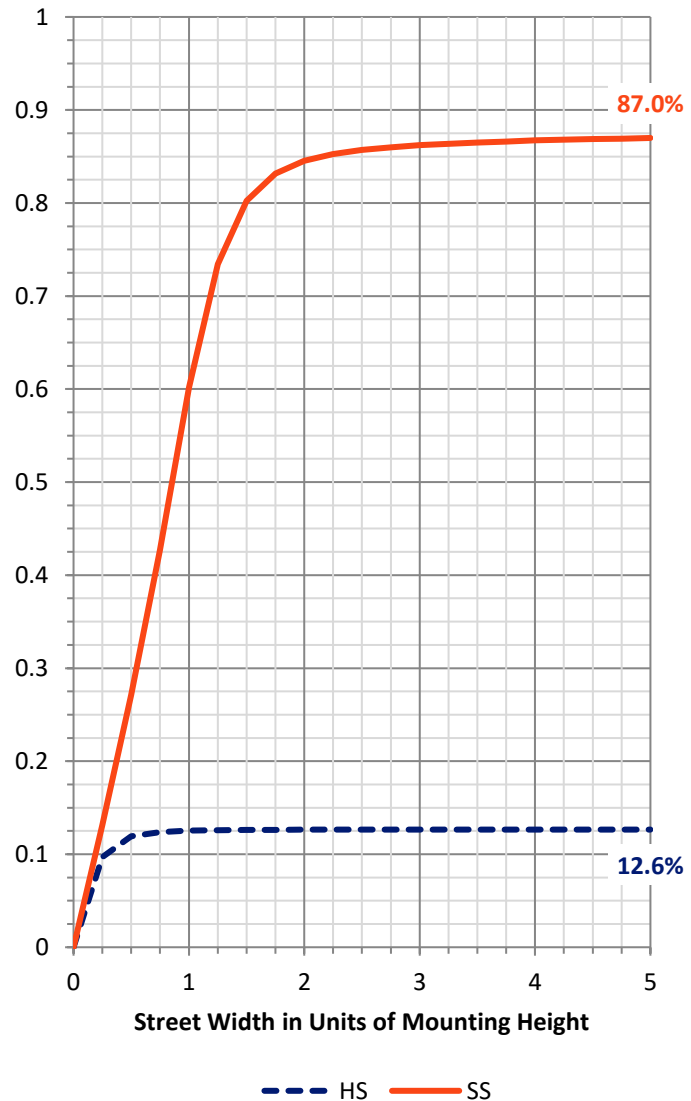
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1931.9	0.0	1931.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	13177.1	0.0	13177.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	15109.0	0.0	15109.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.1	1.2
10°-20°	489.1	3.2
20°-30°	821.5	5.4
30°-40°	1574.7	10.4
40°-50°	3216.3	21.3
50°-60°	4256.3	28.2
60°-70°	3306.4	21.9
70°-80°	1193.5	7.9
80°-90°	76.1	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°	15109.0	100.0
0°-180°	15109.0	100.0



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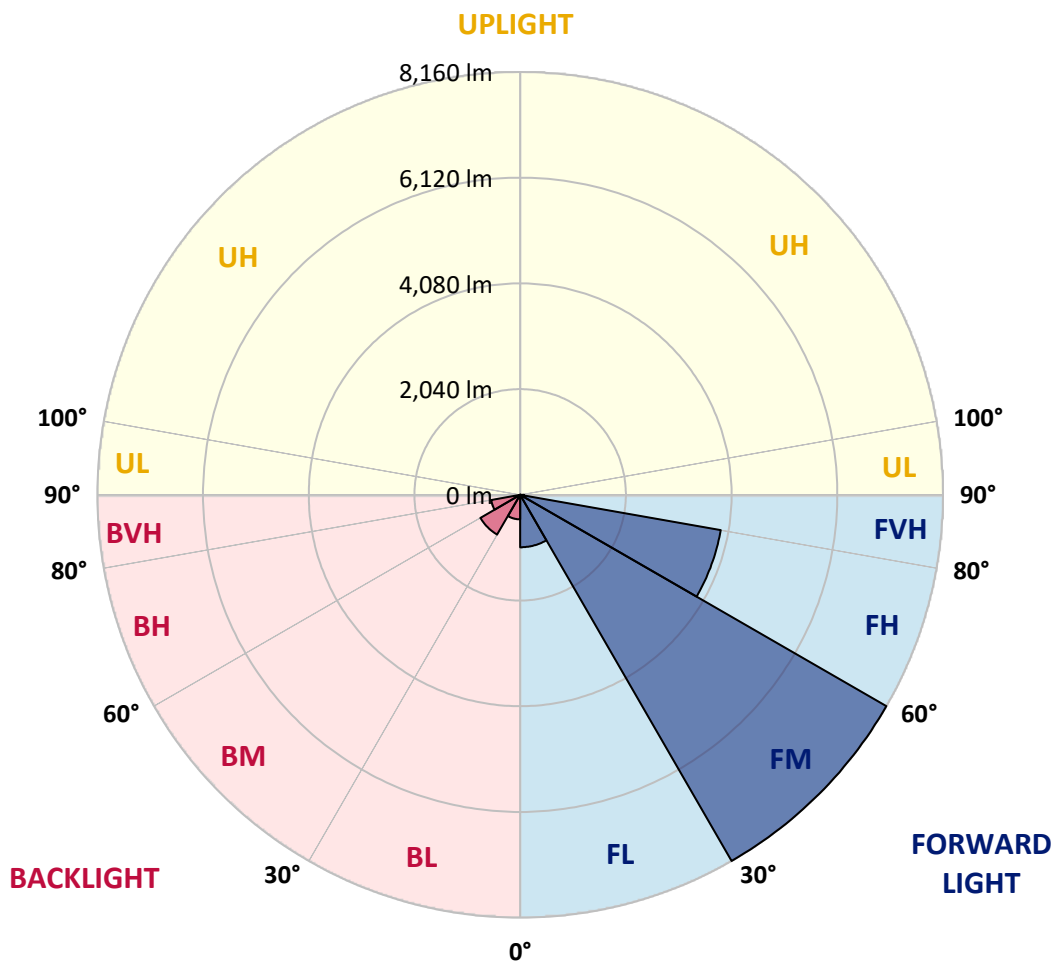
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1012.9	6.7			
FM (30°-60°)	8160.4	54.0			
FH (60°-80°)	3931.0	26.0			G2/5000
FVH (80°-90°)	72.7	0.5			G1/100
BL (0°-30°)	472.8	3.1	B1/500		
BM (30°-60°)	886.9	5.9	B1/1000		
BH (60°-80°)	568.9	3.8	B2/1000		G2/1000
BVH (80°-90°)	3.3	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°	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1
2.5°	1868.4	1864.6	1860.8	1857.2	1857.2	1853.6	1849.8	1842.3	1834.9	1827.5	1823.7
5°	1901.8	1898.1	1894.3	1898.1	1894.3	1894.3	1890.7	1883.1	1875.8	1864.6	1853.6
7.5°	1927.9	1924.1	1920.3	1924.1	1927.9	1931.4	1935.2	1927.9	1924.1	1909.2	1898.1
10°	1961.2	1957.4	1953.9	1961.2	1961.2	1979.8	1983.5	1979.8	1976.1	1965.0	1946.4
12.5°	2009.5	2013.2	2013.2	2020.6	2028.1	2050.3	2057.7	2046.7	2046.7	2031.7	2009.5
15°	2098.6	2098.6	2098.6	2106.0	2109.8	2139.6	2146.9	2135.8	2143.3	2117.2	2094.9
17.5°	2184.0	2187.8	2195.2	2210.1	2210.1	2236.2	2251.0	2251.0	2265.7	2232.4	2202.6
20°	2269.5	2273.3	2284.4	2317.7	2317.7	2351.3	2377.3	2388.4	2403.2	2369.8	2317.7
22.5°	2362.4	2362.4	2381.0	2433.0	2421.8	2488.7	2537.0	2555.5	2570.4	2525.9	2444.1
25°	2503.5	2488.7	2503.5	2551.8	2544.4	2637.2	2726.4	2745.0	2763.5	2711.5	2588.9
27.5°	2770.9	2748.6	2696.7	2700.3	2700.3	2808.1	2934.5	2960.5	2971.6	2926.9	2774.7
30°	3305.9	3305.9	3112.6	2982.7	2897.3	2993.8	3172.2	3216.7	3231.6	3164.6	2964.0
32.5°	4238.2	4238.2	3881.5	3551.0	3227.8	3227.8	3432.2	3513.8	3528.7	3450.7	3216.7
35°	5426.8	5419.4	4884.4	4431.2	3799.8	3562.0	3736.7	3874.1	3918.8	3814.7	3543.5
37.5°	6689.7	6641.3	6065.6	5545.6	4680.2	4097.0	4149.0	4331.0	4372.0	4286.4	3967.1
40°	7714.9	7659.2	7194.9	6760.3	5816.7	4951.3	4743.3	4910.4	4958.7	4839.9	4472.1
42.5°	8643.4	8506.1	8186.7	7874.6	7124.3	6429.7	5534.5	5601.3	5653.4	5527.0	5040.5
45°	9315.8	9104.1	8940.7	8844.1	8446.7	8052.9	6559.7	6425.9	6444.5	6288.6	5660.8
47.5°	9334.4	9185.8	9200.6	9453.3	9616.6	9601.8	7893.1	7417.8	7347.1	7087.1	6321.9
50°	8442.9	8528.2	8799.4	9520.1	10404.1	10939.0	9479.3	8591.5	8379.7	7911.7	6979.4
52.5°	6957.2	7090.9	7599.8	8814.3	10519.2	11819.3	11124.7	9932.4	9553.5	8728.9	7484.6
55°	5449.1	5456.5	5991.3	7228.2	9750.4	11979.0	12439.5	11406.9	10827.5	9349.2	7818.8
57.5°	3747.9	3952.2	4631.9	5463.9	8015.8	11184.1	12933.6	12550.9	11804.4	9731.8	8052.9
60°	2455.2	2466.3	3257.6	4219.6	5456.5	9100.3	12632.8	13156.4	12595.7	9958.4	8212.6
62°	1730.9	1749.4	2239.8	3446.9	4111.8	6522.6	11967.8	13282.8	13041.4	10092.1	8379.7
62.5°	1604.6	1619.5	2031.7	3253.8	3863.0	5850.2	11730.2	13253.1	13108.2	10136.7	8439.1
65°	1177.5	1177.5	1329.9	2236.2	2830.4	3161.0	9939.7	12662.5	13019.0	10493.2	8662.0
67.5°	910.1	917.4	969.5	1378.1	2135.8	1916.7	6344.2	11332.7	12090.5	11020.6	8788.3
70°	783.7	780.0	817.2	913.8	1541.5	1274.1	2793.2	8844.1	10125.5	10887.0	8673.1
72.5°	579.4	583.2	668.6	802.4	1073.5	828.2	1262.8	4695.0	6567.1	8521.0	7432.5
75°	371.4	375.1	471.7	631.5	772.6	542.2	728.0	1400.4	2689.3	4724.7	4546.4
77.5°	248.9	256.2	308.3	442.1	676.1	338.0	456.9	587.0	809.7	1771.7	1630.7
80°	167.2	167.2	196.9	297.2	427.1	282.2	245.1	390.0	419.7	549.8	274.9
82.5°	111.4	111.4	130.1	196.9	278.6	252.6	148.6	211.7	245.1	274.9	96.6
85°	66.8	66.8	89.1	122.6	181.9	141.2	96.6	118.8	126.3	174.6	52.0
87.5°	40.9	37.1	59.5	85.3	96.6	85.3	63.2	63.2	66.8	96.6	26.1
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°	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1
2.5°	1816.4	1812.6	1808.9	1801.6	1790.3	1783.0	1775.5	1768.0	1760.7	1760.7	1771.7
5°	1849.8	1838.7	1823.7	1808.9	1786.5	1771.7	1760.7	1745.8	1738.3	1738.3	1742.1
7.5°	1890.7	1879.6	1853.6	1827.5	1794.1	1768.0	1742.1	1708.7	1682.6	1671.4	1682.6
10°	1935.2	1920.3	1883.1	1842.3	1805.2	1738.3	1652.9	1548.9	1459.7	1419.0	1437.5
12.5°	1991.0	1972.4	1927.9	1872.1	1786.5	1623.1	1411.4	1170.0	1017.8	947.2	962.1
15°	2072.7	2046.7	1983.5	1898.1	1708.7	1355.7	1010.4	731.7	590.5	531.2	538.7
17.5°	2169.2	2135.8	2050.3	1890.7	1508.1	976.8	601.8	427.1	367.8	352.9	352.9
20°	2273.3	2228.7	2117.2	1834.9	1203.5	612.9	375.1	326.9	304.5	293.4	293.4
22.5°	2381.0	2321.5	2172.9	1705.0	858.1	382.6	308.3	274.9	248.9	237.7	237.7
25°	2510.9	2433.0	2228.7	1478.3	546.0	308.3	263.7	230.2	204.3	189.5	193.1
27.5°	2663.3	2563.0	2276.9	1196.1	352.9	267.4	219.1	185.7	163.4	155.9	155.9
30°	2823.0	2704.1	2288.2	895.3	286.0	230.2	181.9	152.4	137.4	130.1	130.1
32.5°	3042.1	2886.2	2254.7	594.3	241.5	193.1	152.4	126.3	115.2	111.4	111.4
35°	3331.9	3123.9	2176.7	367.8	204.3	159.7	126.3	111.4	100.3	96.6	96.6
37.5°	3699.6	3454.4	2039.2	252.6	174.6	130.1	107.7	96.6	89.1	85.3	85.3
40°	4189.9	3855.5	1860.8	219.1	148.6	111.4	92.9	85.3	78.1	78.1	78.1
42.5°	4710.0	4342.1	1630.7	193.1	126.3	96.6	81.7	74.3	70.5	66.8	66.8
45°	5278.3	4839.9	1344.7	170.9	107.7	85.3	74.3	63.2	59.5	59.5	59.5
47.5°	5842.8	5352.6	1032.6	148.6	92.9	74.3	63.2	55.8	52.0	48.2	48.2
50°	6422.3	5816.7	757.7	130.1	81.7	66.8	55.8	48.2	40.9	37.1	37.1
52.5°	6842.0	6095.4	553.4	111.4	70.5	55.8	44.6	37.1	29.7	26.1	26.1
55°	7150.2	6266.2	404.9	92.9	63.2	48.2	37.1	29.7	22.3	22.3	18.5
57.5°	7391.8	6348.0	304.5	81.7	55.8	40.9	29.7	22.3	18.5	14.8	14.8
60°	7577.5	6351.6	226.6	66.8	48.2	33.4	22.3	14.8	11.1	11.1	11.1
62°	7822.6	6400.0	185.7	55.8	44.6	29.7	18.5	11.1	7.5	3.8	3.8
62.5°	7893.1	6418.5	178.4	55.8	40.9	26.1	14.8	11.1	7.5	3.8	3.8
65°	8220.0	6451.9	137.4	44.6	33.4	22.3	11.1	7.5	0.0	0.0	0.0
67.5°	8517.2	6400.0	100.3	33.4	26.1	14.8	11.1	3.8	0.0	0.0	0.0
70°	8487.5	6043.3	70.5	22.3	18.5	11.1	7.5	0.0	0.0	0.0	0.0
72.5°	6994.3	4524.1	48.2	18.5	11.1	7.5	3.8	0.0	0.0	0.0	0.0
75°	4223.3	1979.8	33.4	11.1	11.1	7.5	3.8	0.0	0.0	0.0	0.0
77.5°	1385.5	716.8	22.3	7.5	7.5	3.8	3.8	0.0	0.0	0.0	0.0
80°	226.6	118.8	11.1	7.5	7.5	3.8	3.8	0.0	0.0	0.0	0.0
82.5°	70.5	29.7	7.5	7.5	3.8	3.8	0.0	0.0	0.0	0.0	0.0
85°	26.1	11.1	7.5	7.5	3.8	3.8	0.0	0.0	0.0	0.0	0.0
87.5°	11.1	7.5	7.5	7.5	3.8	3.8	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)