

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: P258075

Luminaire Tested: **ARCH-L-AF72-190-D-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258075
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-AF72-190-D-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 810mA 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: 16463.4 lumens
Efficiency: N/A
Efficacy: 87.1 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

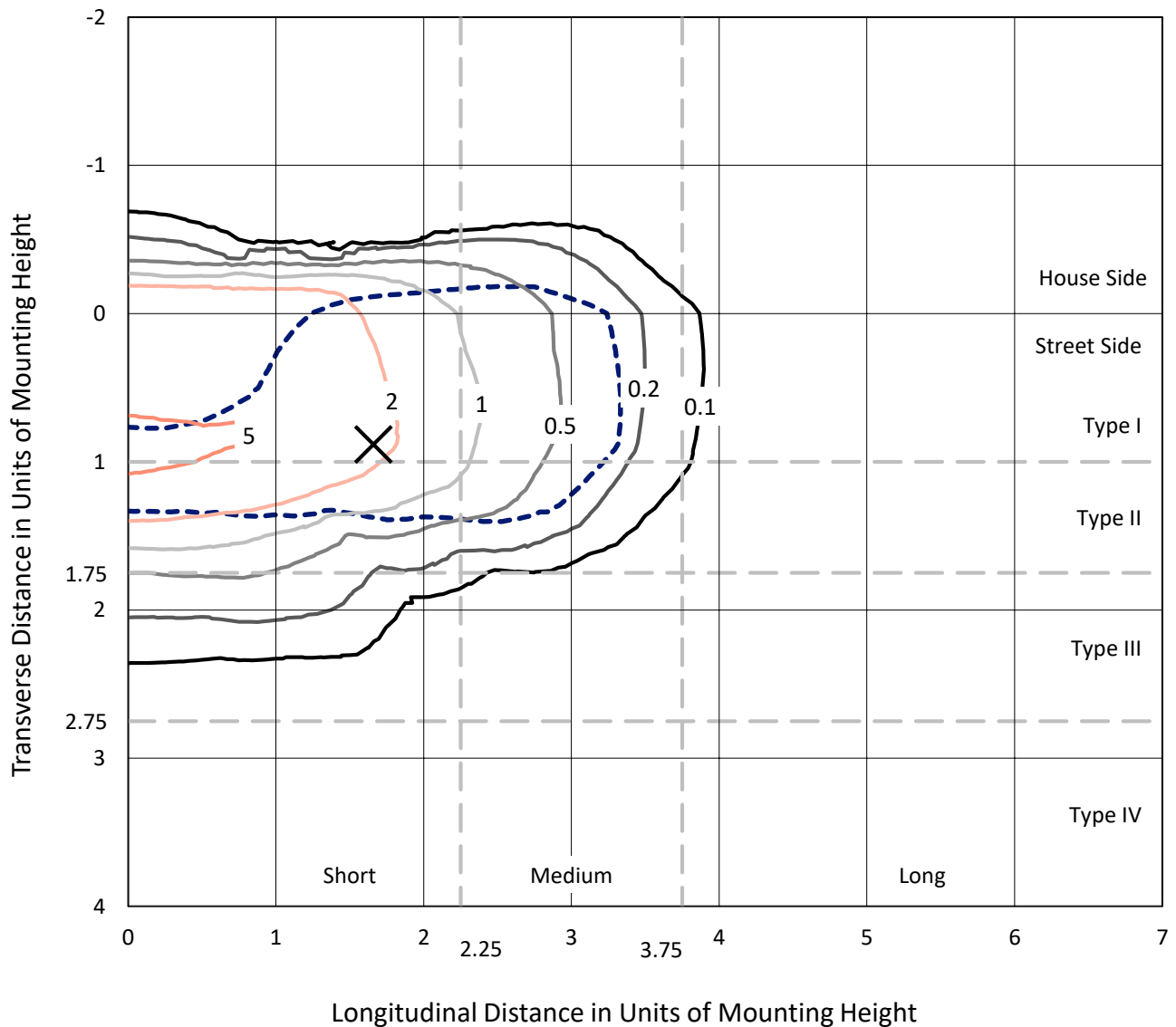
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

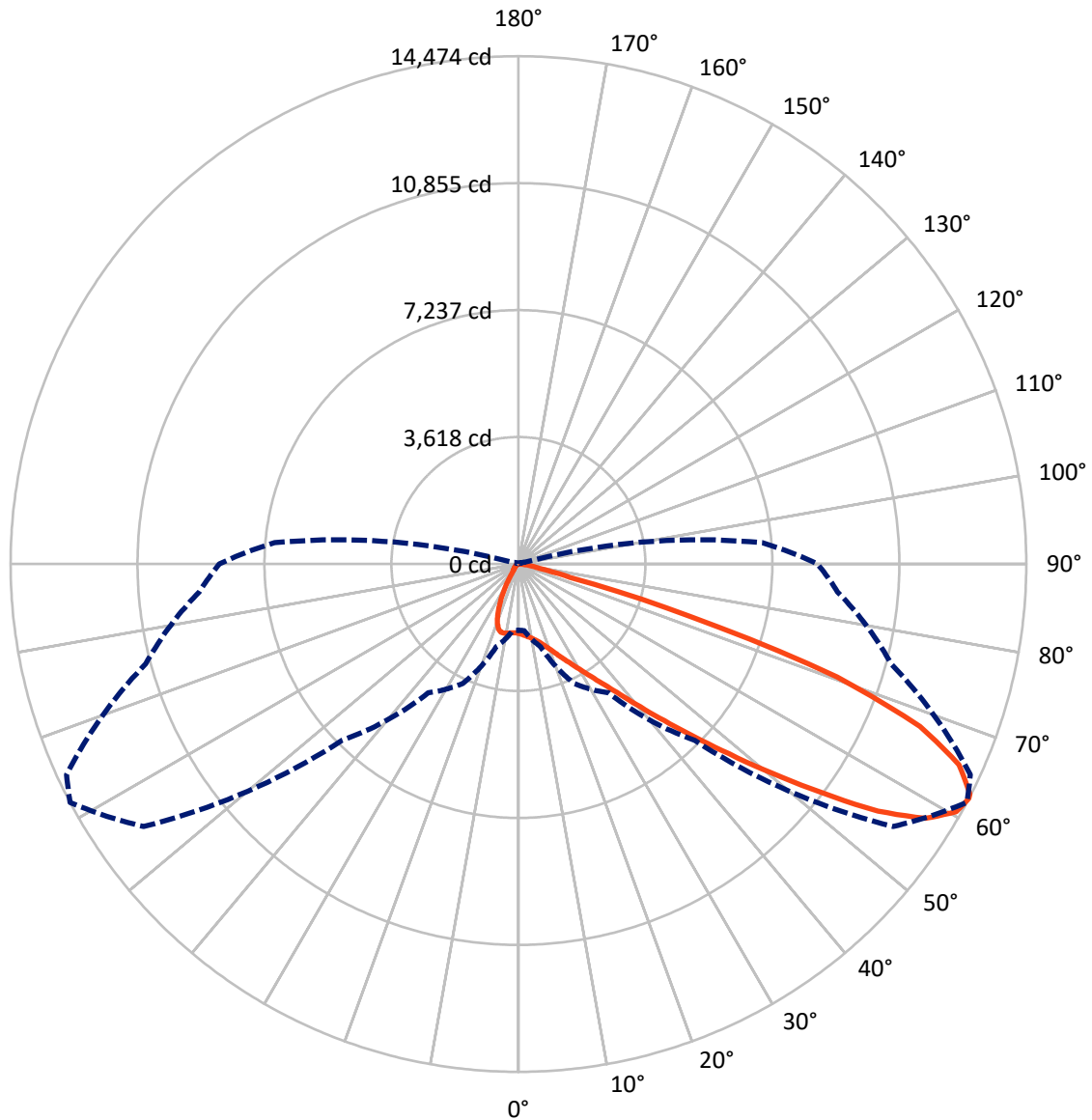
✕ Max cd
 - - - 1/2 Max cd



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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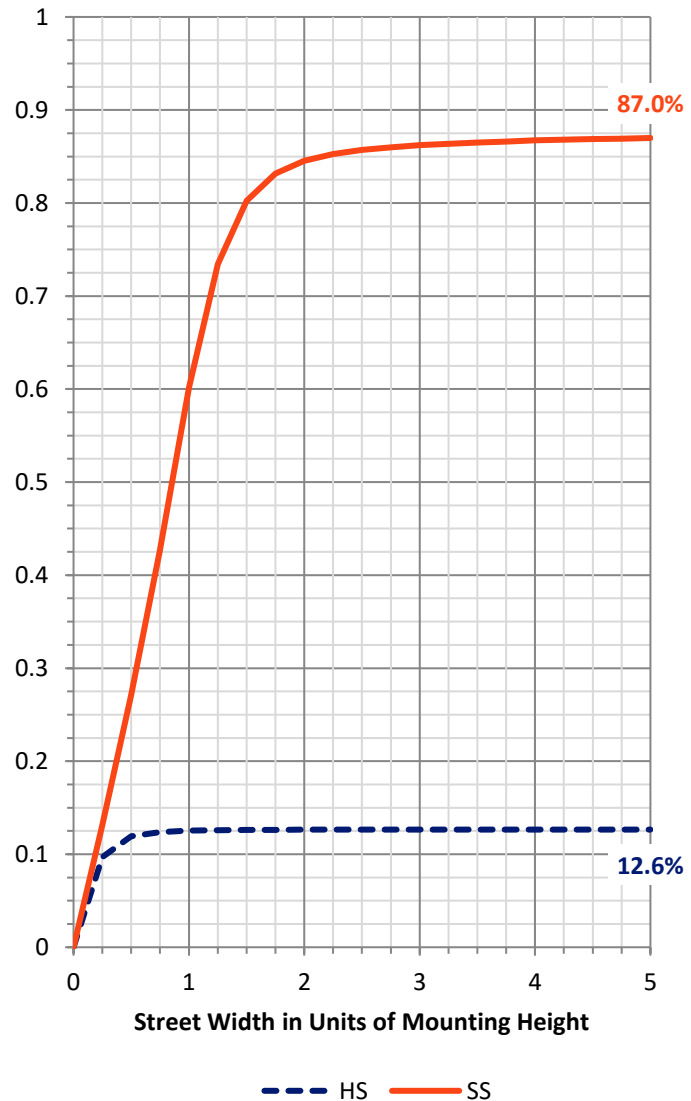
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2105.1	0.0	2105.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	14358.3	0.0	14358.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	16463.4	0.0	16463.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.8	1.2
10°-20°	533.0	3.2
20°-30°	895.1	5.4
30°-40°	1715.8	10.4
40°-50°	3504.6	21.3
50°-60°	4637.8	28.2
60°-70°	3602.8	21.9
70°-80°	1300.4	7.9
80°-90°	82.9	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°	16463.4	100.0
0°-180°	16463.4	100.0



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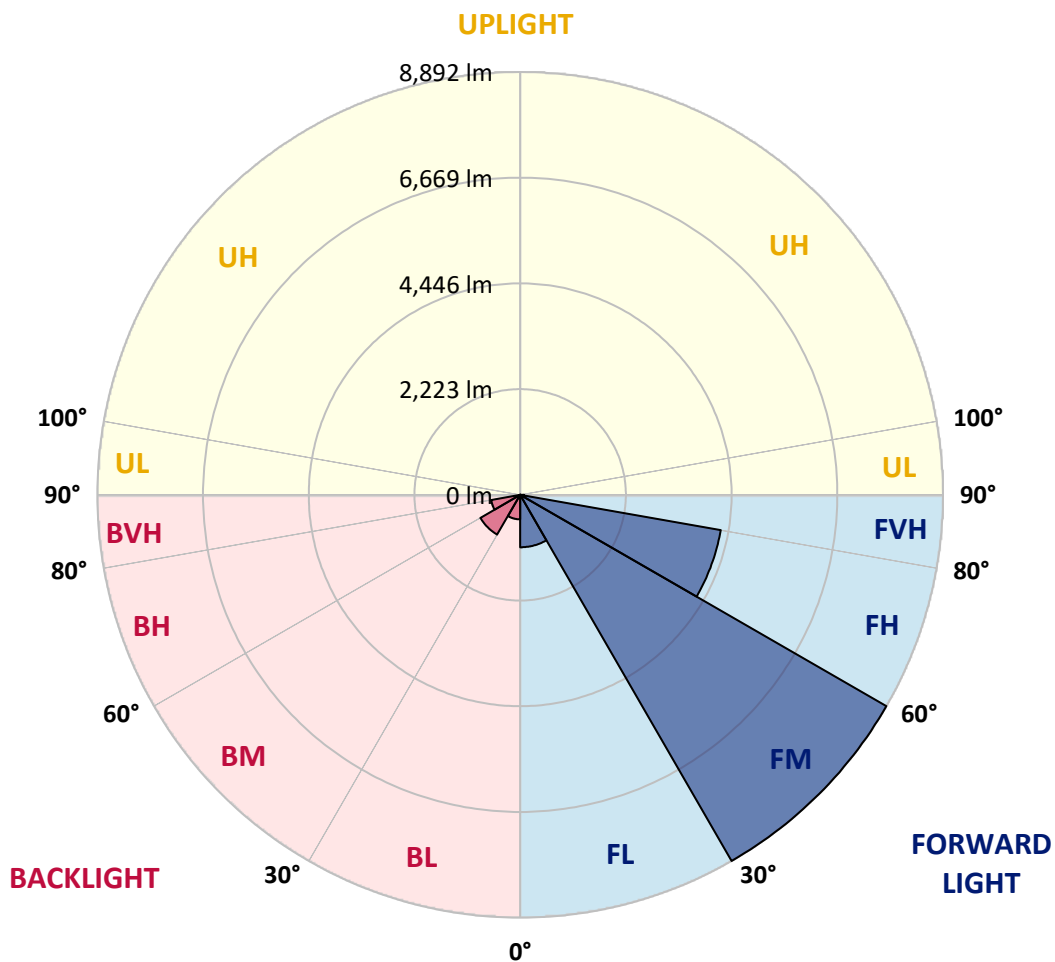
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1103.7	6.7			
FM (30°-60°)	8891.9	54.0			
FH (60°-80°)	4283.4	26.0			G2/5000
FVH (80°-90°)	79.3	0.5			G1/100
BL (0°-30°)	515.2	3.1	B2/1000		
BM (30°-60°)	966.4	5.9	B1/1000		
BH (60°-80°)	619.9	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°	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2
2.5°	2035.9	2031.8	2027.8	2023.7	2023.7	2019.6	2015.6	2007.5	1999.5	1991.3	1987.3
5°	2072.3	2068.2	2064.2	2068.2	2064.2	2064.2	2060.1	2052.0	2044.0	2031.8	2019.6
7.5°	2100.6	2096.5	2092.5	2096.5	2100.6	2104.6	2108.7	2100.6	2096.5	2080.4	2068.2
10°	2137.0	2133.0	2129.0	2137.0	2137.0	2157.3	2161.3	2157.3	2153.2	2141.0	2120.9
12.5°	2189.6	2193.7	2193.7	2201.8	2209.9	2234.1	2242.3	2230.1	2230.1	2214.0	2189.6
15°	2286.8	2286.8	2286.8	2294.9	2298.9	2331.3	2339.4	2327.2	2335.4	2307.1	2282.7
17.5°	2379.9	2383.9	2392.0	2408.2	2408.2	2436.6	2452.7	2452.7	2468.9	2432.5	2400.1
20°	2473.0	2477.0	2489.1	2525.6	2525.6	2562.0	2590.3	2602.5	2618.7	2582.2	2525.6
22.5°	2574.2	2574.2	2594.4	2651.1	2638.9	2711.7	2764.4	2784.6	2800.8	2752.2	2663.2
25°	2727.9	2711.7	2727.9	2780.6	2772.5	2873.7	2970.8	2991.0	3011.3	2954.6	2821.0
27.5°	3019.3	2995.1	2938.4	2942.4	2942.4	3059.9	3197.4	3225.8	3237.9	3189.4	3023.4
30°	3602.2	3602.2	3391.7	3250.0	3156.9	3262.2	3456.4	3505.0	3521.2	3448.4	3229.9
32.5°	4618.1	4618.1	4229.5	3869.3	3517.2	3517.2	3739.8	3828.8	3845.1	3760.1	3505.0
35°	5913.3	5905.2	5322.3	4828.5	4140.5	3881.5	4071.7	4221.4	4270.0	4156.7	3861.2
37.5°	7289.3	7236.8	6609.4	6042.8	5099.7	4464.3	4520.9	4719.3	4763.8	4670.7	4322.6
40°	8406.5	8345.7	7839.8	7366.3	6338.2	5395.1	5168.6	5350.6	5403.3	5273.7	4873.0
42.5°	9418.3	9268.5	8920.4	8580.5	7763.0	7006.1	6030.6	6103.4	6160.1	6022.5	5492.3
45°	10150.8	9920.2	9742.1	9636.9	9203.8	8774.8	7147.7	7002.0	7022.3	6852.2	6168.3
47.5°	10171.1	10009.3	10025.4	10300.6	10478.7	10462.5	8600.8	8082.6	8005.7	7722.5	6888.7
50°	9199.7	9292.8	9588.3	10373.5	11336.8	11919.6	10328.9	9361.6	9131.0	8620.9	7605.0
52.5°	7580.8	7726.4	8281.0	9604.5	11462.3	12878.8	12122.0	10822.7	10410.0	9511.4	8155.5
55°	5937.5	5945.6	6528.5	7876.2	10624.5	13052.9	13554.7	12429.6	11798.2	10187.4	8519.7
57.5°	4083.8	4306.4	5047.1	5953.8	8734.3	12186.7	14093.1	13676.1	12862.7	10604.2	8774.8
60°	2675.3	2687.5	3549.5	4597.9	5945.6	9916.2	13765.2	14335.9	13724.7	10851.1	8948.8
62°	1886.1	1906.4	2440.6	3756.0	4480.5	7107.3	13040.8	14473.5	14210.4	10996.8	9131.0
62.5°	1748.4	1764.7	2214.0	3545.5	4209.3	6374.6	12781.7	14441.1	14283.3	11045.4	9195.7
65°	1283.0	1283.0	1449.0	2436.6	3084.1	3444.4	10830.9	13797.6	14186.2	11433.9	9438.6
67.5°	991.6	999.7	1056.4	1501.6	2327.2	2088.5	6913.0	12348.7	13174.3	12008.6	9576.1
70°	854.0	850.0	890.5	995.6	1679.7	1388.2	3043.7	9636.9	11033.2	11863.0	9450.7
72.5°	631.4	635.5	728.5	874.2	1169.7	902.5	1376.1	5115.9	7155.8	9284.7	8098.8
75°	404.8	408.8	514.0	688.0	841.9	591.0	793.3	1525.8	2930.3	5148.3	4954.0
77.5°	271.2	279.3	335.9	481.6	736.6	368.4	497.9	639.4	882.3	1930.6	1776.8
80°	182.1	182.1	214.5	323.8	465.4	307.6	267.1	424.9	457.4	599.0	299.5
82.5°	121.4	121.4	141.7	214.5	303.5	275.2	161.9	230.7	267.1	299.5	105.3
85°	72.8	72.8	97.2	133.6	198.4	153.9	105.3	129.5	137.6	190.3	56.7
87.5°	44.5	40.5	64.8	93.1	105.3	93.1	68.8	68.8	72.8	105.3	28.3
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°	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2
2.5°	1979.2	1975.1	1971.1	1962.9	1950.9	1942.8	1934.7	1926.5	1918.4	1918.4	1930.6
5°	2015.6	2003.4	1987.3	1971.1	1946.8	1930.6	1918.4	1902.3	1894.2	1894.2	1898.2
7.5°	2060.1	2047.9	2019.6	1991.3	1954.9	1926.5	1898.2	1861.8	1833.4	1821.4	1833.4
10°	2108.7	2092.5	2052.0	2007.5	1967.0	1894.2	1801.1	1687.8	1590.6	1546.1	1566.3
12.5°	2169.4	2149.2	2100.6	2039.9	1946.8	1768.7	1538.0	1274.9	1109.0	1032.1	1048.3
15°	2258.5	2230.1	2161.3	2068.2	1861.8	1477.3	1100.9	797.3	643.5	578.8	586.9
17.5°	2363.7	2327.2	2234.1	2060.1	1643.3	1064.5	655.7	465.4	400.7	384.5	384.5
20°	2477.0	2428.5	2307.1	1999.5	1311.3	667.8	408.8	356.2	331.8	319.8	319.8
22.5°	2594.4	2529.7	2367.7	1857.8	935.0	416.9	335.9	299.5	271.2	259.0	259.0
25°	2736.1	2651.1	2428.5	1610.8	594.9	335.9	287.3	250.9	222.6	206.4	210.4
27.5°	2902.0	2792.8	2481.1	1303.2	384.5	291.4	238.8	202.3	178.1	170.0	170.0
30°	3076.0	2946.5	2493.2	975.4	311.7	250.9	198.4	165.9	149.8	141.7	141.7
32.5°	3314.9	3144.9	2456.8	647.6	263.1	210.4	165.9	137.6	125.5	121.4	121.4
35°	3630.6	3403.9	2371.8	400.7	222.6	174.0	137.6	121.4	109.3	105.3	105.3
37.5°	4031.2	3764.0	2222.1	275.2	190.3	141.7	117.3	105.3	97.2	93.1	93.1
40°	4565.4	4201.2	2027.8	238.8	161.9	121.4	101.2	93.1	85.0	85.0	85.0
42.5°	5132.1	4731.5	1776.8	210.4	137.6	105.3	89.0	80.9	76.9	72.8	72.8
45°	5751.3	5273.7	1465.2	186.2	117.3	93.1	80.9	68.8	64.8	64.8	64.8
47.5°	6366.5	5832.4	1125.1	161.9	101.2	80.9	68.8	60.7	56.7	52.6	52.6
50°	6998.0	6338.2	825.6	141.7	89.0	72.8	60.7	52.6	44.5	40.5	40.5
52.5°	7455.4	6641.8	603.0	121.4	76.9	60.7	48.6	40.5	32.4	28.3	28.3
55°	7791.2	6828.0	441.2	101.2	68.8	52.6	40.5	32.4	24.2	24.2	20.3
57.5°	8054.3	6917.0	331.8	89.0	60.7	44.5	32.4	24.2	20.3	16.2	16.2
60°	8256.7	6921.1	246.9	72.8	52.6	36.4	24.2	16.2	12.2	12.2	12.2
62°	8523.8	6973.7	202.3	60.7	48.6	32.4	20.3	12.2	8.1	4.1	4.1
62.5°	8600.8	6993.9	194.3	60.7	44.5	28.3	16.2	12.2	8.1	4.1	4.1
65°	8956.9	7030.3	149.8	48.6	36.4	24.2	12.2	8.1	0.0	0.0	0.0
67.5°	9280.7	6973.7	109.3	36.4	28.3	16.2	12.2	4.1	0.0	0.0	0.0
70°	9248.3	6585.1	76.9	24.2	20.3	12.2	8.1	0.0	0.0	0.0	0.0
72.5°	7621.3	4929.7	52.6	20.3	12.2	8.1	4.1	0.0	0.0	0.0	0.0
75°	4601.8	2157.3	36.4	12.2	12.2	8.1	4.1	0.0	0.0	0.0	0.0
77.5°	1509.7	781.1	24.2	8.1	8.1	4.1	4.1	0.0	0.0	0.0	0.0
80°	246.9	129.5	12.2	8.1	8.1	4.1	4.1	0.0	0.0	0.0	0.0
82.5°	76.9	32.4	8.1	8.1	4.1	4.1	0.0	0.0	0.0	0.0	0.0
85°	28.3	12.2	8.1	8.1	4.1	4.1	0.0	0.0	0.0	0.0	0.0
87.5°	12.2	8.1	8.1	8.1	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)