

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: P399814

Luminaire Tested: **ARCH-L-PA3-190-827-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-190-827-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20486 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

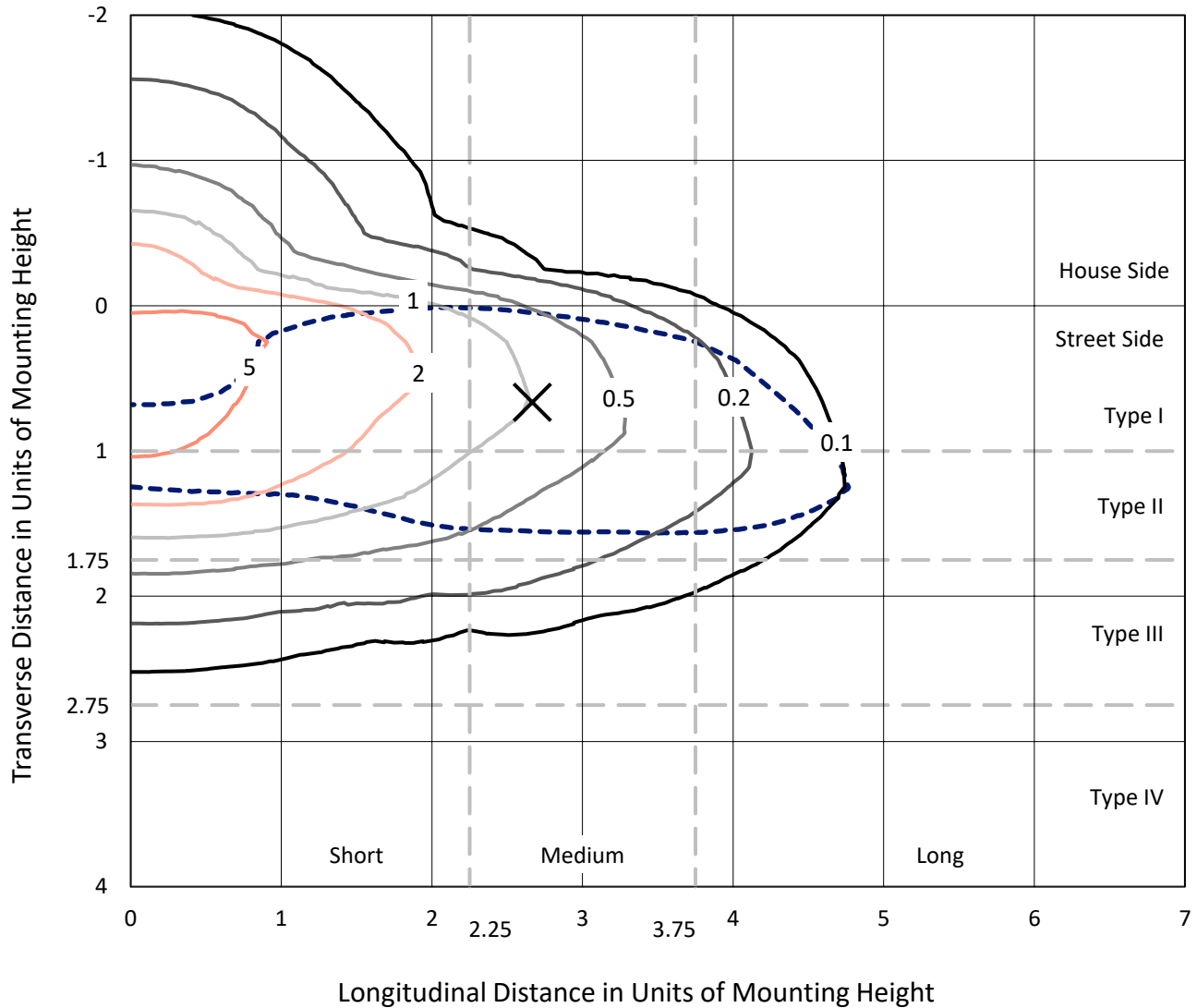
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

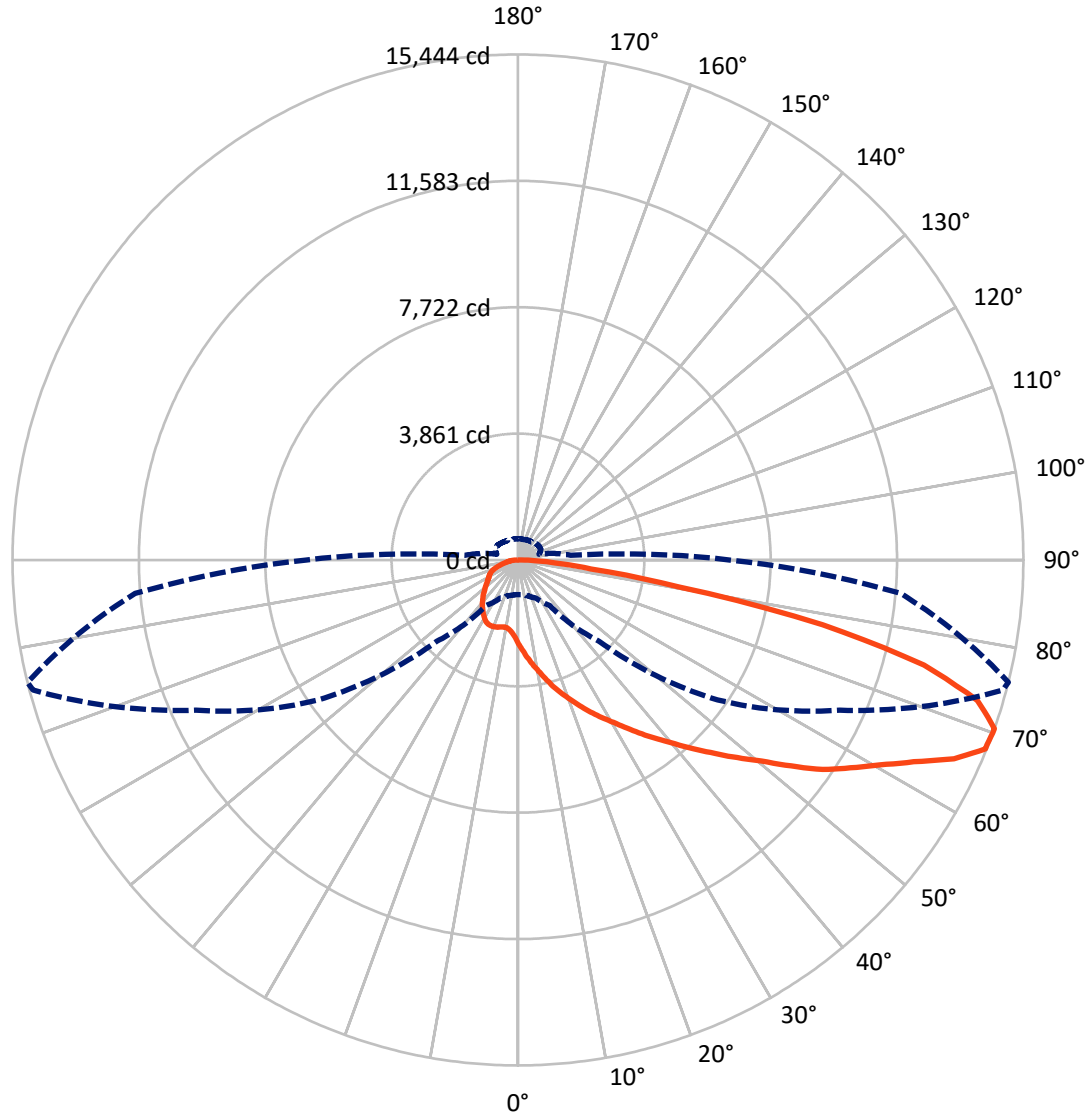
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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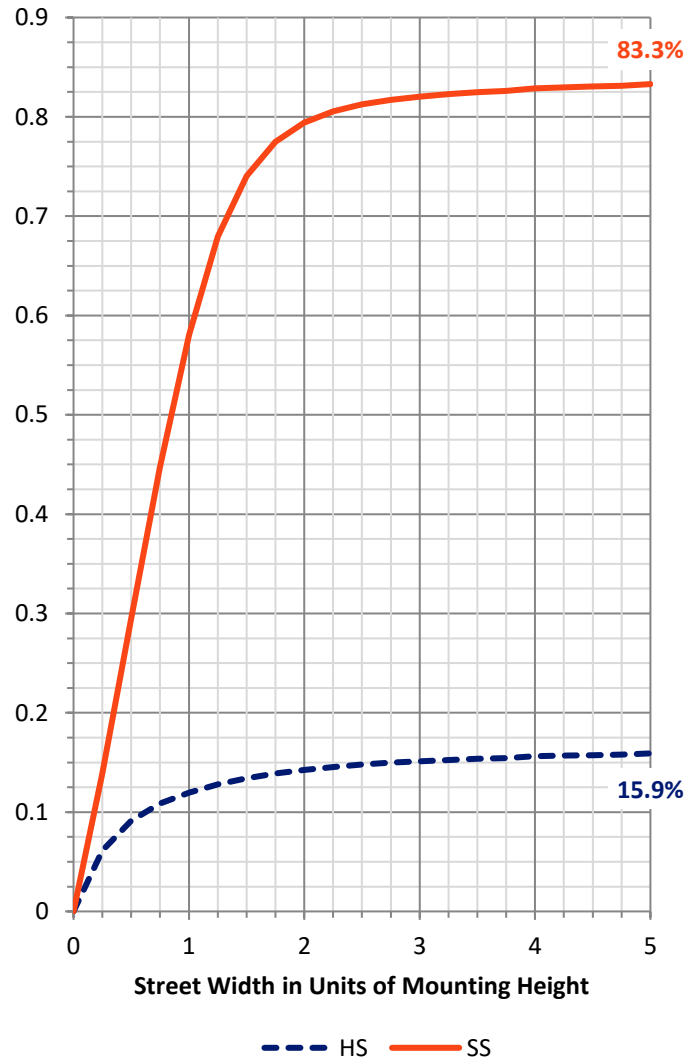
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3344.5	0.0	3344.5
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	17141.5	0.0	17141.5
	% Fixture	83.7	0.0	83.7
Total	Lumens	20486.0	0.0	20486.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.2	1.3
10°-20°	904.7	4.4
20°-30°	1618.6	7.9
30°-40°	2618.3	12.8
40°-50°	3787.8	18.5
50°-60°	4335.4	21.2
60°-70°	3988.1	19.5
70°-80°	2466.2	12.0
80°-90°	500.8	2.4
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°	20486.0	100.0
0°-180°	20486.0	100.0

Coefficient of Utilization

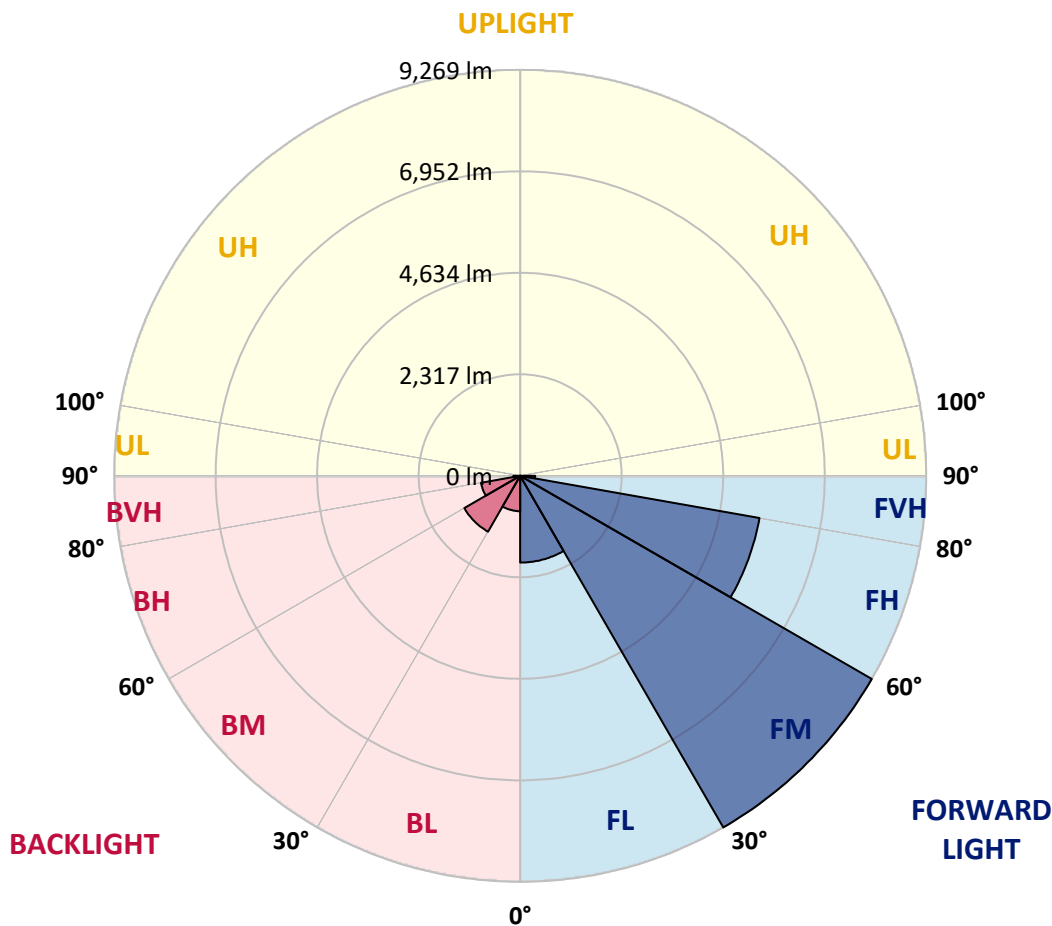


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1981.7	9.7			
FM (30°-60°)	9268.9	45.2			
FH (60°-80°)	5547.0	27.1			G3/7500
FVH (80°-90°)	343.8	1.7			G3/500
BL (0°-30°)	807.8	3.9	B2/1000		
BM (30°-60°)	1472.6	7.2	B2/2500		
BH (60°-80°)	907.2	4.4	B2/1000		G2/1000
BVH (80°-90°)	157.0	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2561.9	2561.9	2561.9	2561.9	2561.9	2561.9	2561.9	2561.9	2561.9	2561.9	2561.9
2.5°	3265.0	3240.7	3238.0	3200.3	3165.3	3071.0	3003.7	2885.1	2766.6	2763.9	2645.4
5°	3774.1	3749.9	3736.4	3690.6	3631.3	3507.4	3386.2	3203.0	3001.0	2987.5	2763.9
7.5°	4118.9	4097.4	4070.4	4051.6	3995.0	3884.5	3736.4	3518.2	3240.7	3213.8	2901.3
10°	4350.6	4337.1	4331.7	4318.3	4283.2	4194.3	4051.6	3819.9	3480.5	3450.8	3046.8
12.5°	4450.3	4444.9	4469.1	4506.8	4520.3	4485.3	4347.9	4129.7	3744.5	3712.1	3221.9
15°	4334.4	4339.8	4401.8	4531.1	4668.5	4743.9	4663.1	4450.3	4043.5	3997.7	3426.6
17.5°	4280.5	4288.6	4331.7	4455.6	4649.6	4884.0	4921.7	4754.7	4331.7	4267.1	3642.1
20°	4374.8	4385.6	4417.9	4514.9	4649.6	4900.1	5096.8	5045.6	4614.6	4547.2	3849.5
22.5°	4614.6	4628.1	4625.4	4687.3	4778.9	4951.3	5193.8	5320.4	4910.9	4835.5	4065.0
25°	5126.4	5115.6	5024.1	4994.4	5018.7	5129.1	5323.1	5584.4	5220.7	5145.3	4291.3
27.5°	5821.4	5808.0	5640.9	5490.1	5355.4	5403.9	5506.3	5797.2	5535.9	5449.7	4506.8
30°	6564.9	6548.8	6354.8	6109.7	5810.7	5740.6	5727.1	5983.1	5853.8	5762.2	4735.8
32.5°	7289.6	7276.1	7068.7	6783.1	6371.0	6160.9	6031.6	6190.5	6214.7	6125.8	4986.3
35°	7949.6	7949.6	7771.8	7432.4	6966.3	6648.4	6435.6	6446.4	6629.6	6527.2	5271.9
37.5°	8536.8	8534.2	8340.2	8006.2	7559.0	7195.3	6931.3	6756.2	7025.6	6936.7	5570.9
40°	9002.9	8984.0	8841.3	8550.3	8100.4	7739.5	7472.8	7119.9	7467.4	7386.6	5888.8
42.5°	9342.3	9331.5	9234.6	8981.3	8553.0	8213.6	8030.4	7577.8	7968.4	7887.6	6260.5
45°	9474.3	9495.9	9495.9	9256.1	8916.7	8606.9	8526.1	8081.6	8509.9	8429.1	6659.2
47.5°	9261.5	9318.1	9433.9	9450.1	9151.0	8940.9	8967.9	8588.0	9067.5	9024.4	7095.6
50°	8596.1	8701.2	8954.4	9412.4	9245.3	9196.8	9345.0	9105.3	9665.6	9652.1	7626.3
52.5°	6880.1	7136.0	7925.3	8747.0	9180.7	9315.4	9719.5	9687.1	10436.0	10457.6	8318.6
55°	5277.3	5374.3	6287.5	7685.6	8784.7	9277.7	9970.0	10255.5	11271.1	11298.1	8954.4
57.5°	4267.1	4331.7	4830.1	6287.5	7882.2	9072.9	10166.6	10586.9	11912.3	11982.3	9520.1
60°	3380.8	3475.1	3809.1	4811.2	6618.8	8579.9	10304.0	10955.9	12601.9	12706.9	10196.3
62.5°	2513.4	2559.2	2874.3	3564.0	5239.6	7693.7	10231.3	11357.3	13447.8	13574.4	11009.8
65°	1788.7	1829.1	2052.7	2534.9	3873.8	6494.9	9808.3	11656.3	14509.1	14638.4	11828.7
67.5°	1338.8	1355.0	1481.6	1772.6	2610.4	5045.6	8951.7	11605.2	15285.0	15400.8	12157.4
70°	1058.7	1064.1	1126.0	1282.3	1697.1	3512.8	7451.2	10853.6	15341.5	15443.9	11742.5
72.5°	878.2	875.5	910.5	986.0	1182.6	2222.4	5519.7	9458.1	14614.2	14684.2	10584.2
75°	724.6	730.0	754.3	797.4	902.4	1465.5	3577.4	7545.5	12892.8	12817.4	8881.7
77.5°	608.8	606.1	616.9	654.6	730.0	1053.3	2095.8	5452.4	9555.1	9517.4	5829.5
80°	490.3	495.7	511.8	544.2	614.2	802.8	1239.2	3402.3	5126.4	4989.0	2785.5
82.5°	328.7	379.8	412.2	449.9	530.7	592.6	786.6	1729.5	2292.5	2257.5	1263.4
85°	156.2	207.4	307.1	350.2	431.0	371.8	533.4	824.3	1147.6	1134.1	455.3
87.5°	32.3	32.3	164.3	196.7	266.7	158.9	296.3	358.3	554.9	519.9	185.9
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°	2561.9	2561.9	2561.9	2561.9	2561.9	2561.9	2561.9	2561.9	2561.9	2561.9	2561.9
2.5°	2575.3	2502.6	2357.1	2241.3	2122.8	2055.4	1971.9	1931.5	1923.4	1901.9	1918.0
5°	2621.1	2478.4	2203.6	2023.1	1901.9	1842.6	1813.0	1802.2	1799.5	1794.1	1794.1
7.5°	2683.1	2464.9	2106.6	1923.4	1845.3	1826.4	1834.5	1850.7	1853.4	1858.8	1856.1
10°	2758.5	2467.6	2052.7	1899.2	1861.5	1864.2	1891.1	1912.6	1923.4	1931.5	1928.8
12.5°	2863.6	2499.9	2044.6	1915.3	1899.2	1909.9	1936.9	1958.4	1969.2	1971.9	1971.9
15°	3001.0	2567.2	2063.5	1950.4	1936.9	1945.0	1961.1	1969.2	1971.9	1969.2	1969.2
17.5°	3151.8	2648.1	2090.4	1971.9	1950.4	1942.3	1936.9	1928.8	1912.6	1901.9	1901.9
20°	3297.3	2720.8	2103.9	1969.2	1931.5	1899.2	1866.8	1826.4	1799.5	1777.9	1777.9
22.5°	3442.8	2788.1	2103.9	1939.6	1880.3	1818.4	1751.0	1686.4	1645.9	1619.0	1619.0
25°	3596.3	2852.8	2087.7	1888.4	1799.5	1710.6	1619.0	1538.2	1497.8	1470.8	1465.5
27.5°	3725.6	2890.5	2044.6	1815.7	1699.8	1586.7	1481.6	1398.1	1368.5	1344.2	1344.2
30°	3863.0	2914.8	1963.8	1721.4	1586.7	1457.4	1349.6	1282.3	1250.0	1214.9	1212.2
32.5°	4016.5	2930.9	1872.2	1621.7	1470.8	1333.5	1241.9	1188.0	1118.0	1080.2	1074.9
35°	4194.3	2952.5	1775.3	1508.6	1355.0	1231.1	1177.2	1088.3	1021.0	988.6	986.0
37.5°	4382.9	2968.6	1670.2	1408.9	1250.0	1163.7	1109.9	1004.8	945.5	897.1	891.7
40°	4582.3	2968.6	1562.4	1311.9	1166.4	1134.1	1031.7	937.5	837.8	813.5	808.2
42.5°	4803.2	2963.2	1454.7	1217.6	1088.3	1066.8	986.0	886.3	835.1	813.5	808.2
45°	5037.5	2944.4	1352.3	1109.9	1007.5	964.4	902.4	875.5	854.0	854.0	854.0
47.5°	5304.2	2928.2	1236.5	1012.9	948.2	899.7	854.0	837.8	835.1	843.2	851.3
50°	5646.3	2922.8	1139.5	942.9	902.4	845.9	840.5	827.0	829.7	829.7	829.7
52.5°	6061.2	2874.3	1047.9	891.7	856.6	789.3	805.5	818.9	824.3	821.6	818.9
55°	6365.6	2788.1	969.8	856.6	824.3	767.8	789.3	810.9	816.2	808.2	808.2
57.5°	6640.4	2666.9	907.8	829.7	802.8	754.3	778.5	800.1	794.7	792.0	789.3
60°	6955.5	2551.1	859.3	816.2	781.2	748.9	770.4	783.9	775.8	770.4	767.8
62.5°	7297.7	2437.9	824.3	816.2	765.1	746.2	762.4	767.8	751.6	746.2	746.2
65°	7456.6	2260.1	786.6	816.2	757.0	740.8	746.2	740.8	724.6	724.6	722.0
67.5°	7195.3	1966.5	738.1	805.5	767.8	732.7	722.0	713.9	695.0	695.0	689.6
70°	6473.3	1616.3	668.1	770.4	770.4	730.0	689.6	670.8	649.2	657.3	646.5
72.5°	5530.5	1282.3	581.9	711.2	754.3	727.3	654.6	625.0	606.1	614.2	598.0
75°	4479.9	994.0	479.5	616.9	713.9	713.9	619.6	579.2	557.6	557.6	538.8
77.5°	2855.5	735.4	390.6	511.8	641.1	695.0	590.0	528.0	495.7	487.6	474.1
80°	1414.3	517.2	320.6	406.8	546.9	651.9	568.4	468.7	422.9	406.8	382.5
82.5°	751.6	358.3	255.9	317.9	436.4	587.3	541.5	404.1	347.5	323.3	296.3
85°	336.7	220.9	204.7	242.4	331.3	482.2	487.6	331.3	266.7	317.9	234.4
87.5°	123.9	99.7	99.7	123.9	191.3	202.0	344.8	212.8	169.7	115.8	91.6
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)