

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: P399823

Luminaire Tested: **ARCH-L-PA3-190-830-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399823
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-PA3-190-830-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 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: 22145 lumens
Efficiency: N/A
Efficacy: 117.2 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

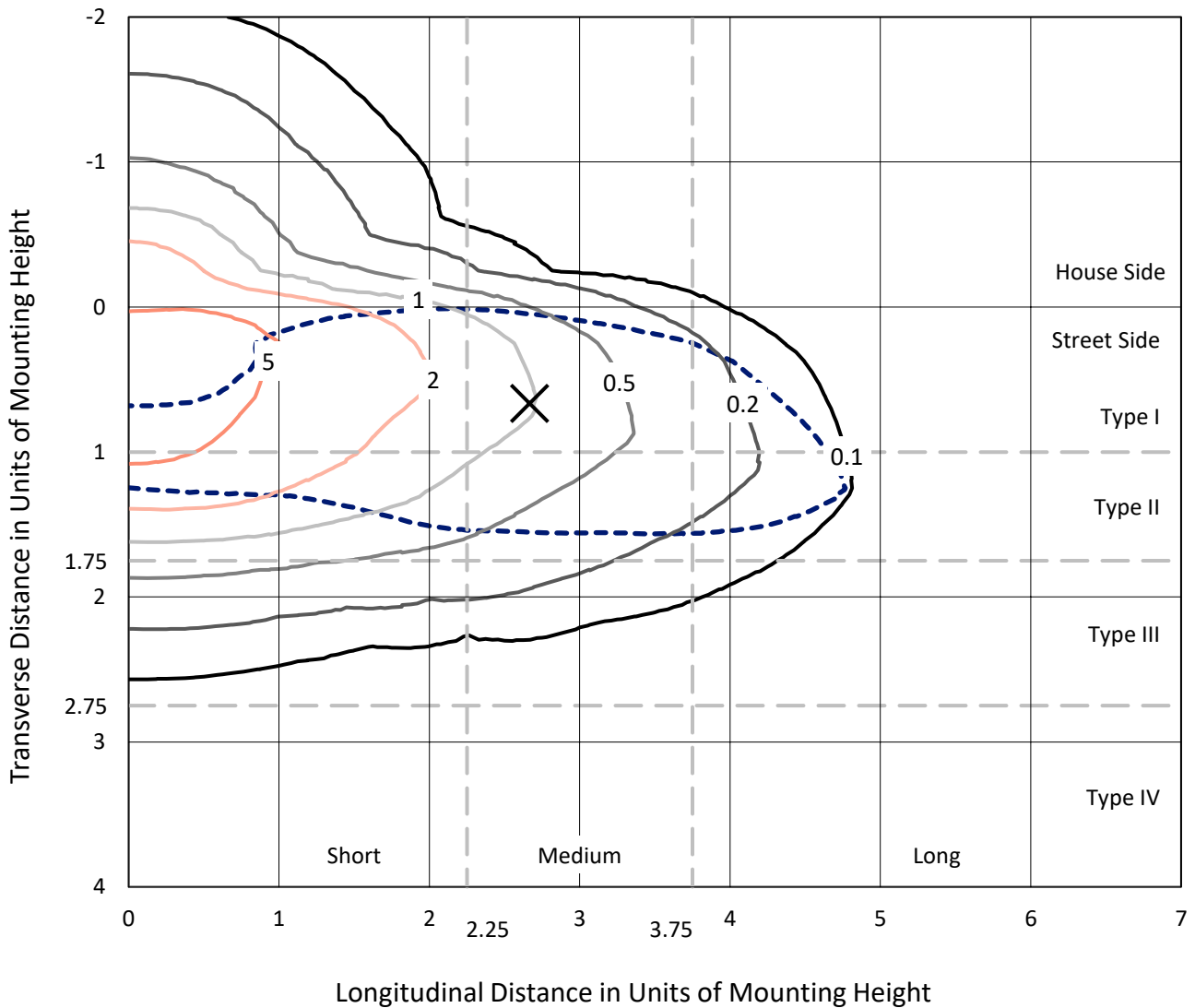
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

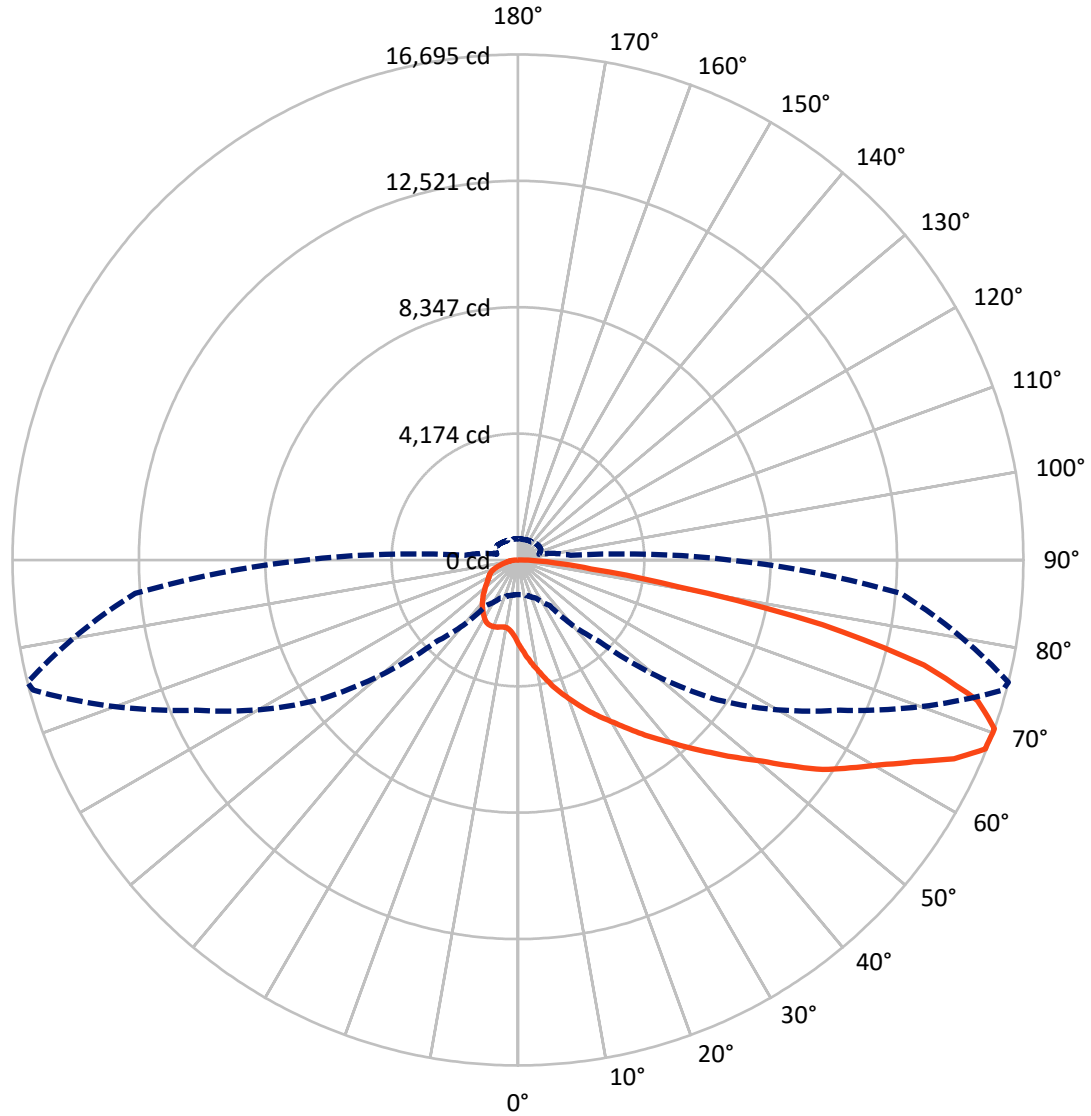
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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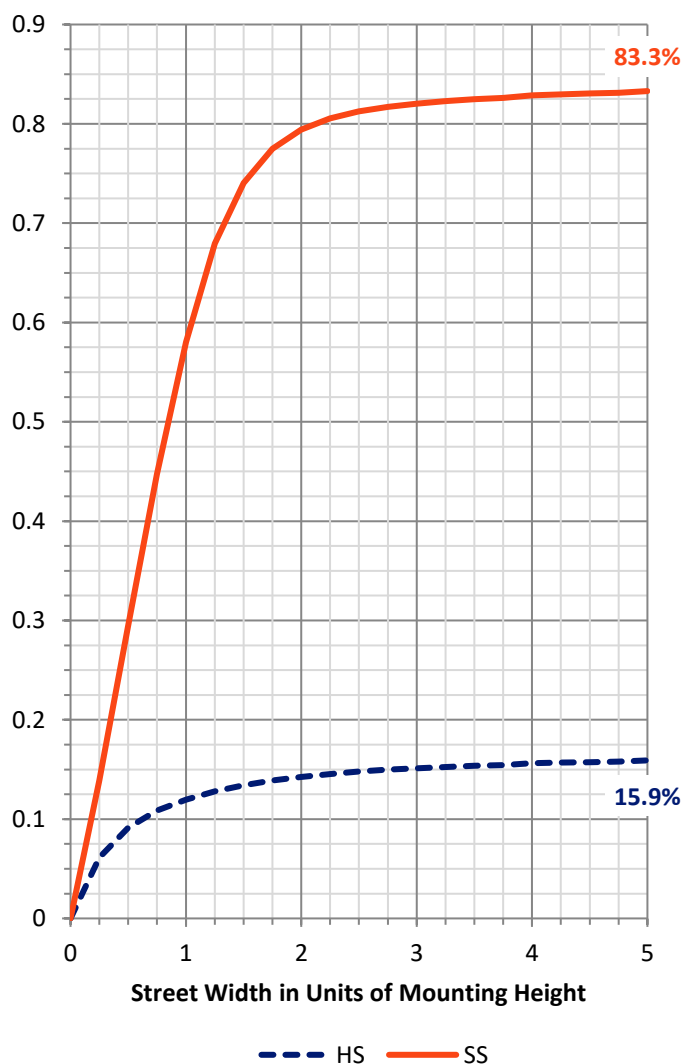
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3615.4	0.0	3615.4
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	18529.6	0.0	18529.6
	% Fixture	83.7	0.0	83.7
Total	Lumens	22145.0	0.0	22145.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.7	1.3
10°-20°	977.9	4.4
20°-30°	1749.7	7.9
30°-40°	2830.4	12.8
40°-50°	4094.6	18.5
50°-60°	4686.5	21.2
60°-70°	4311.0	19.5
70°-80°	2665.9	12.0
80°-90°	541.3	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°	22145.0	100.0
0°-180°	22145.0	100.0

Coefficient of Utilization



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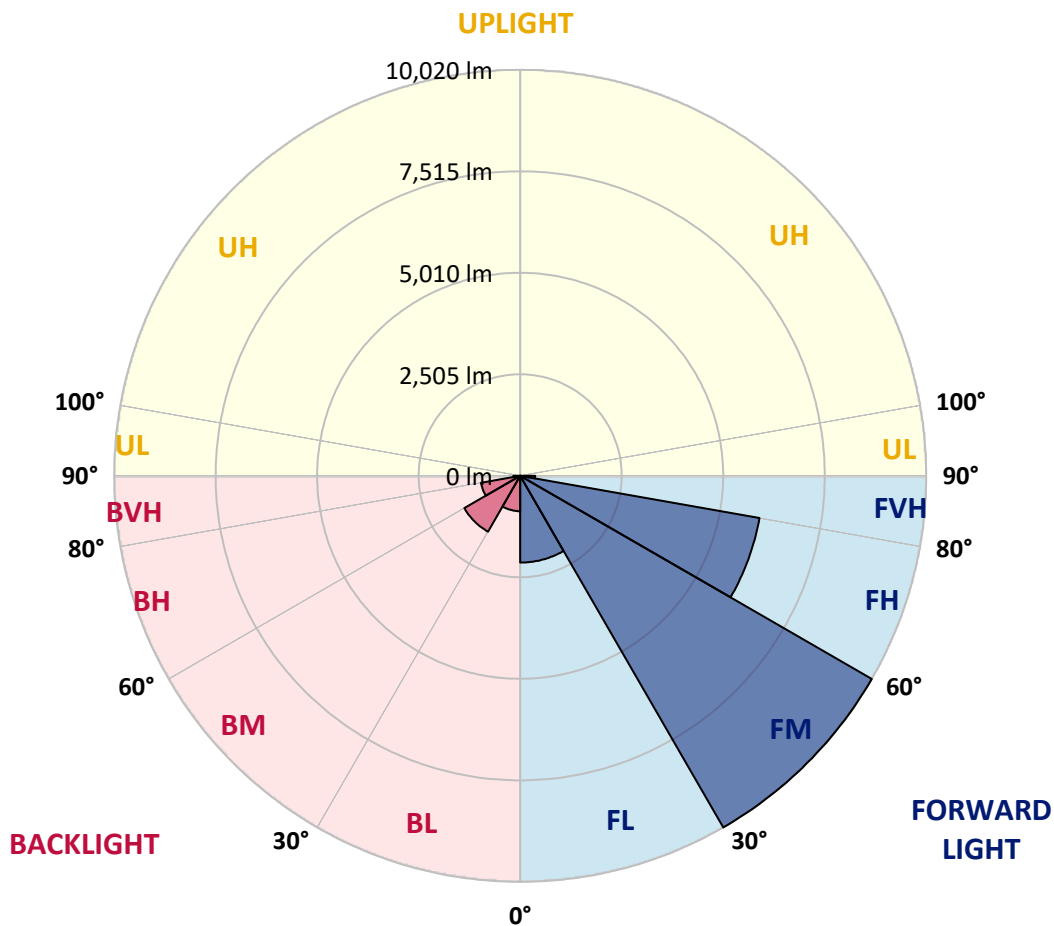
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2142.2	9.7			
FM (30°-60°)	10019.6	45.2			
FH (60°-80°)	5996.3	27.1			G3/7500
FVH (80°-90°)	371.6	1.7			G3/500
BL (0°-30°)	873.2	3.9	B2/1000		
BM (30°-60°)	1591.8	7.2	B2/2500		
BH (60°-80°)	980.6	4.4	B2/1000		G2/1000
BVH (80°-90°)	169.7	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°	2769.3	2769.3	2769.3	2769.3	2769.3	2769.3	2769.3	2769.3	2769.3	2769.3	2769.3
2.5°	3529.4	3503.2	3500.2	3459.5	3421.6	3319.7	3246.9	3118.8	2990.6	2987.7	2859.6
5°	4079.7	4053.5	4039.0	3989.5	3925.4	3791.4	3660.4	3462.4	3244.0	3229.4	2987.7
7.5°	4452.5	4429.2	4400.1	4379.7	4318.5	4199.1	4039.0	3803.1	3503.2	3474.0	3136.2
10°	4702.9	4688.3	4682.5	4668.0	4630.1	4534.0	4379.7	4129.2	3762.3	3730.3	3293.5
12.5°	4810.7	4804.8	4831.0	4871.8	4886.4	4848.5	4700.0	4464.1	4047.7	4012.8	3482.8
15°	4685.4	4691.3	4758.2	4898.0	5046.5	5128.1	5040.7	4810.7	4370.9	4321.4	3704.1
17.5°	4627.2	4635.9	4682.5	4816.5	5026.1	5279.5	5320.3	5139.7	4682.5	4612.6	3937.0
20°	4729.1	4740.8	4775.7	4880.5	5026.1	5297.0	5509.5	5454.2	4988.3	4915.5	4161.3
22.5°	4988.3	5002.8	4999.9	5066.9	5165.9	5352.3	5614.4	5751.2	5308.6	5227.1	4394.2
25°	5541.6	5529.9	5430.9	5398.9	5425.1	5544.5	5754.1	6036.6	5643.5	5562.0	4638.8
27.5°	6292.9	6278.3	6097.8	5934.7	5789.1	5841.5	5952.2	6266.7	5984.2	5891.0	4871.8
30°	7096.6	7079.1	6869.4	6604.5	6281.2	6205.5	6190.9	6467.6	6327.8	6228.8	5119.3
32.5°	7879.9	7865.4	7641.1	7332.5	6886.9	6659.8	6520.0	6691.8	6718.0	6621.9	5390.1
35°	8593.4	8593.4	8401.2	8034.3	7530.5	7186.9	6956.8	6968.5	7166.5	7055.8	5698.8
37.5°	9228.2	9225.3	9015.6	8654.5	8171.1	7778.0	7492.6	7303.3	7594.5	7498.4	6022.0
40°	9732.0	9711.6	9557.2	9242.7	8756.4	8366.2	8077.9	7696.5	8072.1	7984.7	6365.7
42.5°	10098.9	10087.2	9982.4	9708.7	9245.7	8878.7	8680.7	8191.5	8613.7	8526.4	6767.5
45°	10241.6	10264.9	10264.9	10005.7	9638.8	9303.9	9216.5	8736.0	9199.1	9111.7	7198.5
47.5°	10011.5	10072.7	10197.9	10215.4	9892.1	9665.0	9694.1	9283.5	9801.8	9755.3	7670.2
50°	9292.2	9405.8	9679.5	10174.6	9994.0	9941.6	10101.8	9842.6	10448.3	10433.8	8243.9
52.5°	7437.3	7713.9	8567.2	9455.3	9924.1	10069.8	10506.6	10471.6	11281.1	11304.4	8992.3
55°	5704.6	5809.5	6796.6	8308.0	9496.1	10029.0	10777.4	11086.0	12183.9	12213.0	9679.5
57.5°	4612.6	4682.5	5221.2	6796.6	8520.6	9807.7	10989.9	11444.2	12876.9	12952.6	10291.1
60°	3654.6	3756.5	4117.6	5200.9	7154.8	9274.8	11138.5	11843.2	13622.4	13736.0	11022.0
62.5°	2716.9	2766.4	3107.1	3852.6	5663.9	8316.7	11059.8	12277.1	14536.8	14673.6	11901.4
65°	1933.6	1977.3	2219.0	2740.2	4187.5	7020.9	10602.6	12600.3	15684.1	15823.9	12786.7
67.5°	1447.3	1464.7	1601.6	1916.1	2821.7	5454.2	9676.6	12545.0	16522.8	16648.0	13141.9
70°	1144.4	1150.2	1217.2	1386.1	1834.6	3797.3	8054.6	11732.5	16583.9	16694.6	12693.5
72.5°	949.3	946.4	984.3	1065.8	1278.4	2402.4	5966.7	10224.1	15797.7	15873.4	11441.3
75°	783.3	789.2	815.4	862.0	975.5	1584.1	3867.2	8156.6	13936.9	13855.4	9600.9
77.5°	658.1	655.2	666.9	707.6	789.2	1138.6	2265.5	5893.9	10328.9	10288.2	6301.6
80°	530.0	535.8	553.3	588.2	663.9	867.8	1339.5	3677.9	5541.6	5393.1	3011.0
82.5°	355.3	410.6	445.5	486.3	573.7	640.6	850.3	1869.5	2478.1	2440.3	1365.7
85°	168.9	224.2	332.0	378.6	465.9	401.9	576.6	891.1	1240.5	1226.0	492.1
87.5°	34.9	34.9	177.6	212.6	288.3	171.8	320.3	387.3	599.9	562.0	200.9
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°	2769.3	2769.3	2769.3	2769.3	2769.3	2769.3	2769.3	2769.3	2769.3	2769.3	2769.3
2.5°	2783.9	2705.3	2548.0	2422.8	2294.7	2221.9	2131.6	2087.9	2079.2	2055.9	2073.4
5°	2833.4	2679.1	2382.0	2186.9	2055.9	1991.8	1959.8	1948.1	1945.2	1939.4	1939.4
7.5°	2900.4	2664.5	2277.2	2079.2	1994.7	1974.3	1983.1	2000.6	2003.5	2009.3	2006.4
10°	2981.9	2667.4	2219.0	2053.0	2012.2	2015.1	2044.2	2067.5	2079.2	2087.9	2085.0
12.5°	3095.5	2702.4	2210.2	2070.4	2053.0	2064.6	2093.7	2117.0	2128.7	2131.6	2131.6
15°	3244.0	2775.2	2230.6	2108.3	2093.7	2102.5	2119.9	2128.7	2131.6	2128.7	2128.7
17.5°	3407.1	2862.5	2259.7	2131.6	2108.3	2099.6	2093.7	2085.0	2067.5	2055.9	2055.9
20°	3564.3	2941.1	2274.3	2128.7	2087.9	2053.0	2018.0	1974.3	1945.2	1921.9	1921.9
22.5°	3721.6	3013.9	2274.3	2096.7	2032.6	1965.6	1892.8	1822.9	1779.2	1750.1	1750.1
25°	3887.5	3083.8	2256.8	2041.3	1945.2	1849.1	1750.1	1662.8	1619.1	1590.0	1584.1
27.5°	4027.3	3124.6	2210.2	1962.7	1837.5	1715.2	1601.6	1511.3	1479.3	1453.1	1453.1
30°	4175.8	3150.8	2122.9	1860.8	1715.2	1575.4	1458.9	1386.1	1351.2	1313.3	1310.4
32.5°	4341.8	3168.3	2023.9	1753.0	1590.0	1441.4	1342.4	1284.2	1208.5	1167.7	1161.9
35°	4534.0	3191.6	1919.0	1630.7	1464.7	1330.8	1272.6	1176.5	1103.7	1068.7	1065.8
37.5°	4737.8	3209.0	1805.4	1523.0	1351.2	1258.0	1199.8	1086.2	1022.1	969.7	963.9
40°	4953.3	3209.0	1689.0	1418.2	1260.9	1226.0	1115.3	1013.4	905.6	879.4	873.6
42.5°	5192.1	3203.2	1572.5	1316.2	1176.5	1153.2	1065.8	958.1	902.7	879.4	873.6
45°	5445.5	3182.8	1461.8	1199.8	1089.1	1042.5	975.5	946.4	923.1	923.1	923.1
47.5°	5733.8	3165.4	1336.6	1094.9	1025.0	972.6	923.1	905.6	902.7	911.5	920.2
50°	6103.6	3159.5	1231.8	1019.2	975.5	914.4	908.5	894.0	896.9	896.9	896.9
52.5°	6552.0	3107.1	1132.8	963.9	926.0	853.2	870.7	885.3	891.1	888.2	885.3
55°	6881.1	3013.9	1048.3	926.0	891.1	829.9	853.2	876.5	882.3	873.6	873.6
57.5°	7178.1	2882.9	981.3	896.9	867.8	815.4	841.6	864.9	859.0	856.1	853.2
60°	7518.8	2757.7	928.9	882.3	844.5	809.5	832.8	847.4	838.7	832.8	829.9
62.5°	7888.7	2635.4	891.1	882.3	827.0	806.6	824.1	829.9	812.5	806.6	806.6
65°	8060.5	2443.2	850.3	882.3	818.3	800.8	806.6	800.8	783.3	783.3	780.4
67.5°	7778.0	2125.8	797.9	870.7	829.9	792.1	780.4	771.7	751.3	751.3	745.5
70°	6997.6	1747.2	722.2	832.8	832.8	789.2	745.5	725.1	701.8	710.5	698.9
72.5°	5978.4	1386.1	629.0	768.8	815.4	786.2	707.6	675.6	655.2	663.9	646.5
75°	4842.7	1074.5	518.3	666.9	771.7	771.7	669.8	626.1	602.8	602.8	582.4
77.5°	3086.7	795.0	422.2	553.3	693.1	751.3	637.7	570.8	535.8	527.1	512.5
80°	1528.8	559.1	346.5	439.7	591.1	704.7	614.4	506.7	457.2	439.7	413.5
82.5°	812.5	387.3	276.6	343.6	471.7	634.8	585.3	436.8	375.7	349.4	320.3
85°	364.0	238.8	221.3	262.1	358.2	521.3	527.1	358.2	288.3	343.6	253.3
87.5°	134.0	107.7	107.7	134.0	206.8	218.4	372.7	230.0	183.5	125.2	99.0
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)