

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: P399818

Luminaire Tested: **ARCH-L-PA3-190-827-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
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-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20347 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

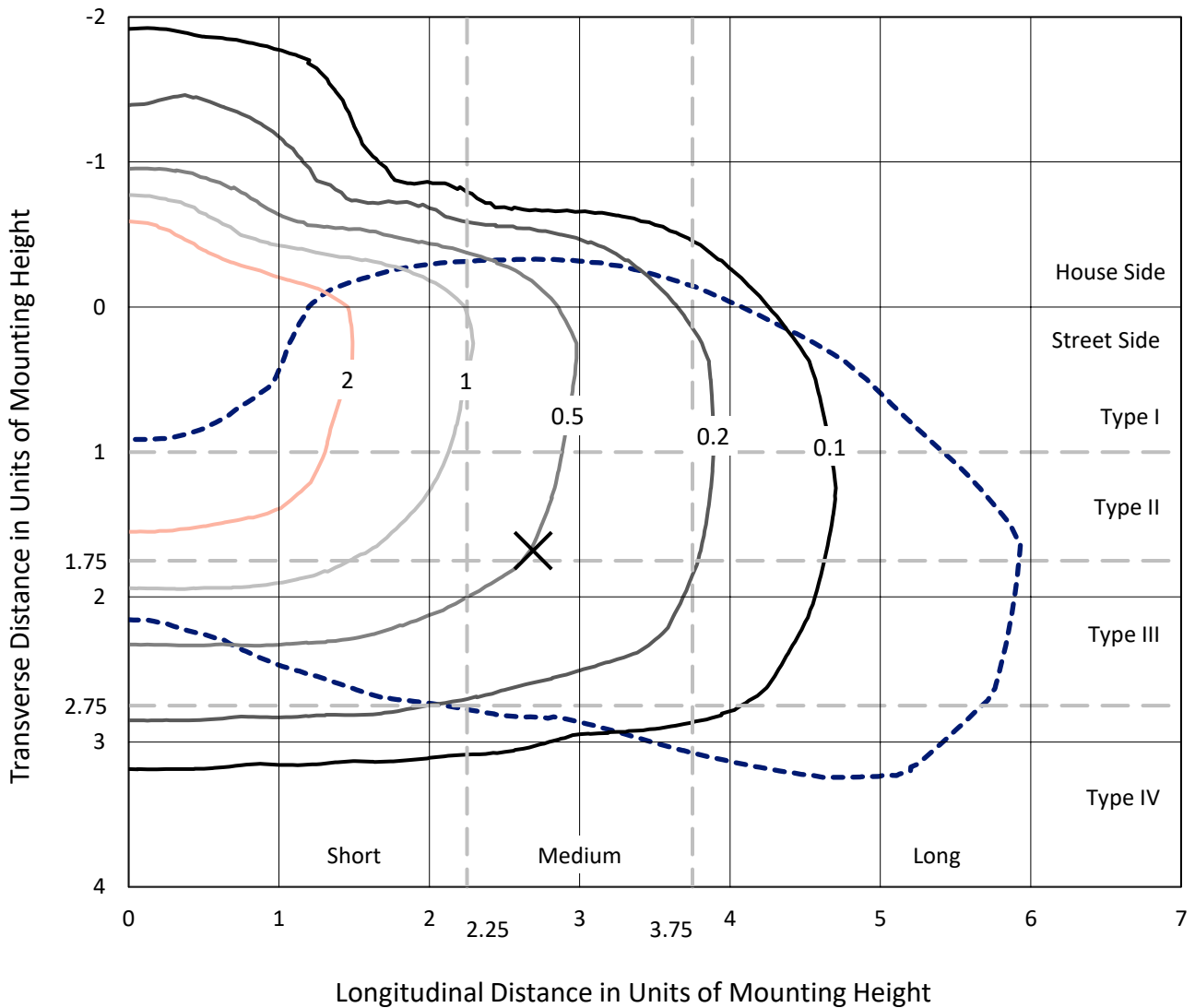
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

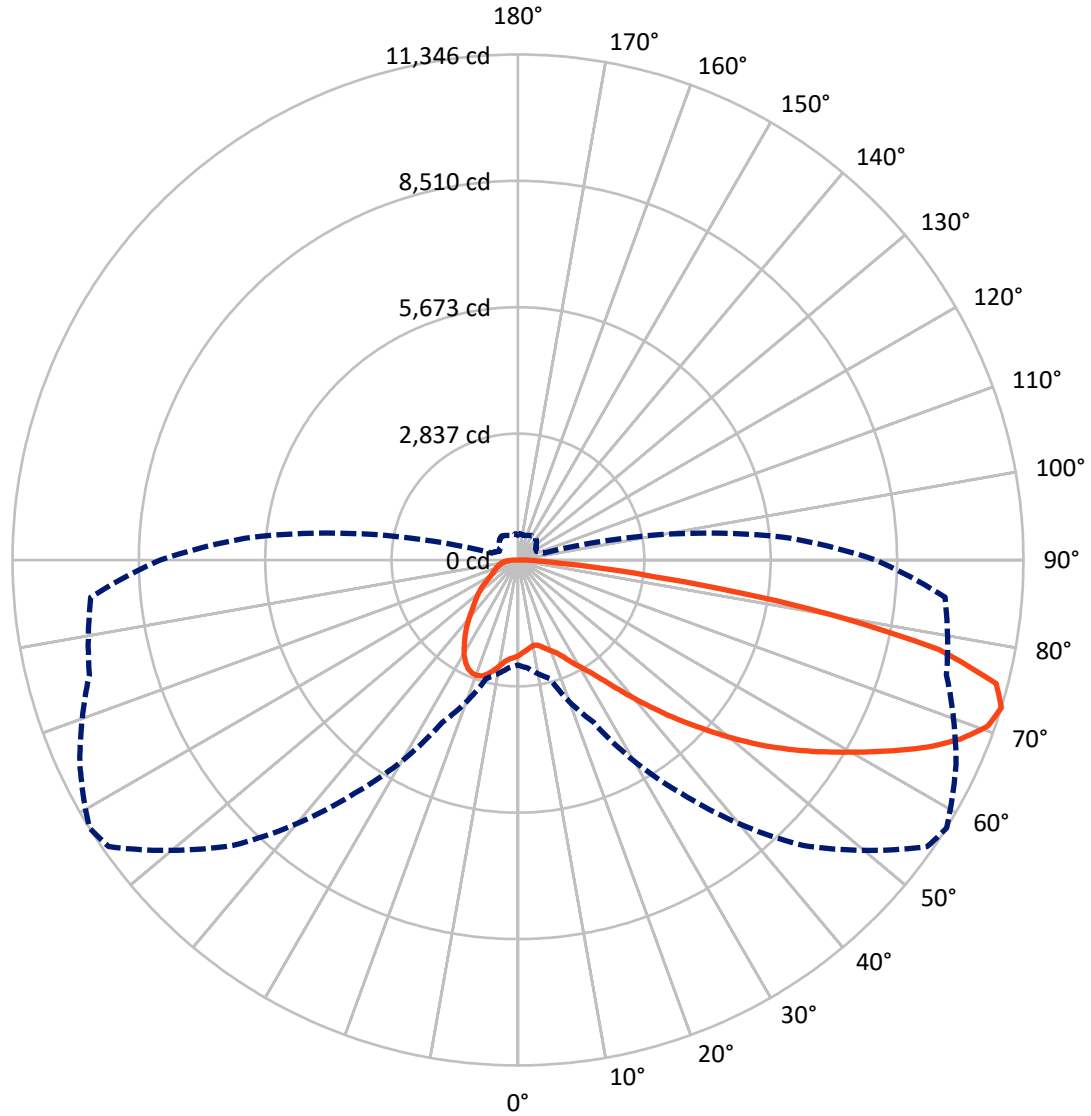
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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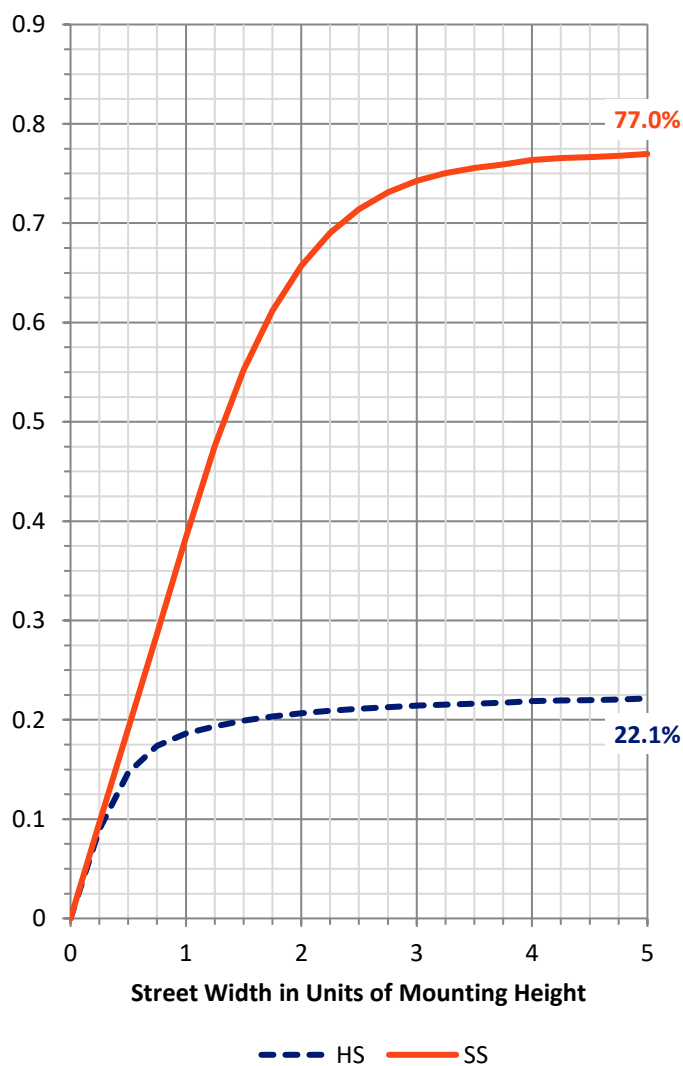
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4614.5	0.0	4614.5
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	15732.5	0.0	15732.5
	% Fixture	77.3	0.0	77.3
Total	Lumens	20347.0	0.0	20347.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.7	1.0
10°-20°	656.6	3.2
20°-30°	1176.1	5.8
30°-40°	1769.2	8.7
40°-50°	2865.0	14.1
50°-60°	4312.8	21.2
60°-70°	5075.7	24.9
70°-80°	3599.1	17.7
80°-90°	685.8	3.4
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°	20347.0	100.0
0°-180°	20347.0	100.0

Coefficient of Utilization



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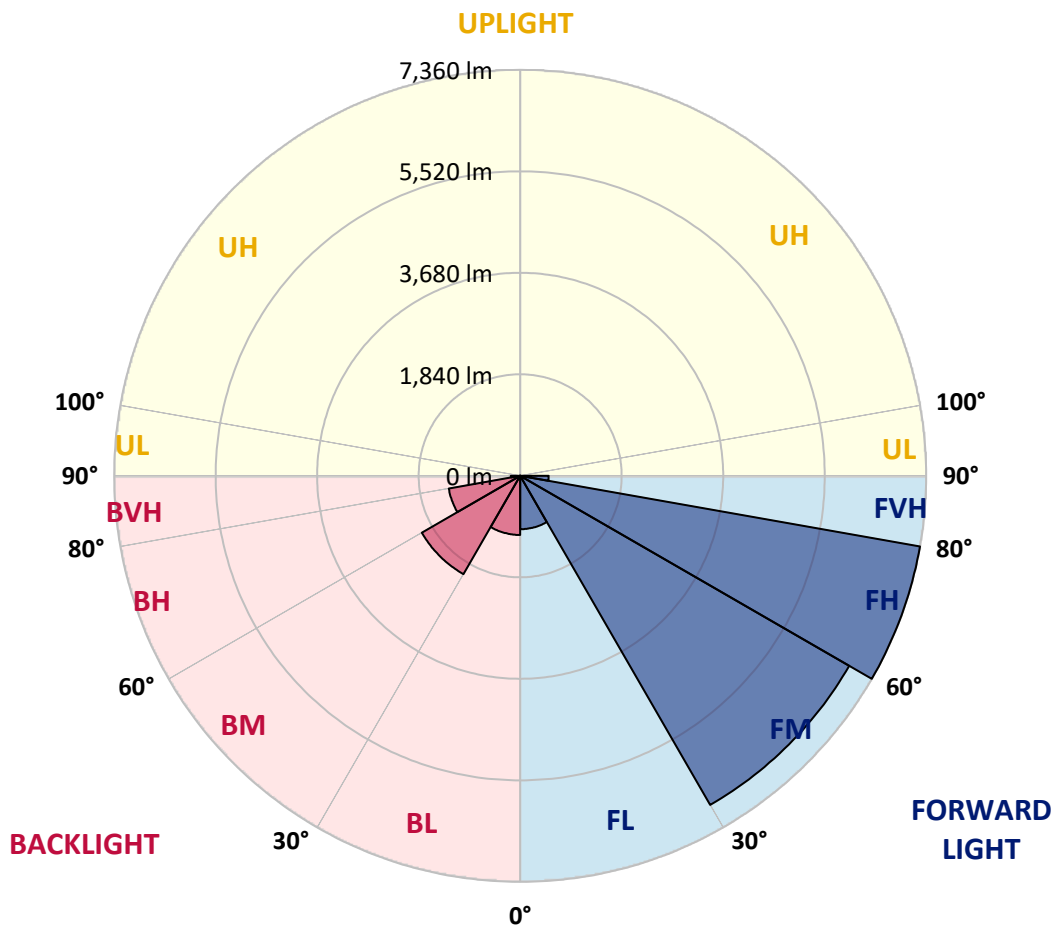
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	967.6	4.8			
FM (30°-60°)	6888.0	33.9			
FH (60°-80°)	7359.6	36.2			G3/7500
FVH (80°-90°)	517.3	2.5			G4/750
BL (0°-30°)	1071.9	5.3	B3/2500		
BM (30°-60°)	2058.9	10.1	B2/2500		
BH (60°-80°)	1315.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	168.5	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2146.2	2146.2	2146.2	2146.2	2146.2	2146.2	2146.2	2146.2	2146.2	2146.2	2146.2
2.5°	2065.6	2054.8	2057.5	2057.5	2068.3	2073.7	2076.3	2084.4	2089.8	2103.2	2122.0
5°	1968.9	1960.8	1963.5	1966.2	1985.0	2003.8	2019.9	2030.7	2046.8	2068.3	2095.1
7.5°	1899.1	1893.7	1896.4	1901.7	1917.9	1939.3	1966.2	1982.3	2006.5	2046.8	2092.5
10°	1848.0	1848.0	1850.7	1861.5	1877.6	1904.4	1925.9	1944.7	1993.1	2065.6	2135.4
12.5°	1807.7	1807.7	1815.8	1837.3	1864.1	1891.0	1942.0	1963.5	2028.0	2127.4	2210.6
15°	1805.0	1807.7	1810.4	1829.2	1858.8	1917.9	1993.1	2025.3	2103.2	2221.4	2318.1
17.5°	1848.0	1850.7	1840.0	1845.3	1880.3	1963.5	2062.9	2100.5	2199.9	2328.8	2428.2
20°	1979.6	1979.6	1947.4	1917.9	1942.0	2033.4	2146.2	2183.8	2293.9	2436.3	2535.7
22.5°	2248.2	2261.7	2186.5	2122.0	2084.4	2135.4	2237.5	2277.8	2401.4	2554.5	2653.8
25°	2573.3	2586.7	2484.6	2393.3	2323.5	2315.4	2382.6	2425.5	2527.6	2686.1	2769.3
27.5°	2887.5	2863.4	2769.3	2683.4	2594.8	2522.2	2573.3	2610.9	2729.1	2849.9	2901.0
30°	3134.7	3115.8	3024.5	2962.7	2879.5	2785.5	2755.9	2796.2	2892.9	3005.7	3032.6
32.5°	3408.6	3395.2	3303.9	3223.3	3153.5	3064.8	3000.3	3019.2	3072.9	3153.5	3169.6
35°	3757.8	3787.4	3690.7	3526.8	3448.9	3363.0	3317.3	3322.7	3363.0	3414.0	3387.1
37.5°	4125.8	4160.7	4166.1	3908.2	3803.5	3725.6	3677.2	3696.0	3744.4	3779.3	3696.0
40°	4808.1	4773.2	4633.5	4442.8	4281.6	4206.4	4139.2	4136.6	4171.5	4233.3	4082.8
42.5°	5713.3	5681.1	5399.0	5151.9	4896.7	4810.8	4679.1	4622.7	4638.9	4716.8	4507.2
45°	6580.9	6567.5	6341.8	6054.4	5748.2	5581.7	5280.8	5143.8	5130.4	5192.2	4942.4
47.5°	7351.8	7292.7	7128.8	6905.9	6873.7	6438.5	5885.2	5699.9	5635.4	5670.3	5391.0
50°	8176.4	7975.0	7749.3	7612.3	7846.0	7440.4	6494.9	6301.5	6143.1	6167.2	5877.1
52.5°	8614.3	8275.8	8128.1	8168.4	8482.6	8326.8	7158.4	6922.0	6666.8	6701.8	6360.6
55°	8238.2	8235.5	8300.0	8549.8	8987.6	8807.6	7789.6	7523.7	7244.4	7252.4	6916.6
57.5°	7722.5	7827.2	8160.3	8710.9	9613.5	9312.6	8410.1	8128.1	7872.9	7832.6	7547.9
60°	7252.4	7367.9	7851.4	8684.1	9831.0	9774.6	9001.0	8753.9	8547.1	8428.9	8211.3
62.5°	6537.9	6623.9	7308.8	8512.2	9648.4	10107.7	9600.0	9430.8	9275.0	9030.6	8925.8
65°	5697.2	5726.7	6449.3	7945.4	9420.1	10236.6	10196.4	10121.1	9970.7	9610.8	9632.3
67.5°	4786.6	4845.7	5479.6	7040.2	8920.5	10177.5	10658.4	10720.1	10542.9	10003.0	10083.5
70°	3816.9	3889.4	4370.2	5788.5	8071.7	9922.4	11085.4	11184.8	10843.7	10131.9	10166.8
72.5°	2361.1	2430.9	2753.2	4021.1	6398.2	9065.5	11217.1	11346.0	10851.8	9960.0	9624.2
75°	816.6	824.6	1077.1	1928.6	3798.1	6844.1	10787.3	11090.8	10510.6	9334.1	8375.2
77.5°	373.4	386.8	478.1	795.1	1684.2	3693.4	8907.0	9667.2	9473.8	8356.4	6446.6
80°	257.9	263.2	330.4	475.4	972.4	1300.1	5622.0	6613.1	6951.6	6470.8	4131.2
82.5°	193.4	198.8	255.2	322.3	701.1	631.2	2140.8	3072.9	3819.6	3749.8	1727.1
85°	185.3	182.7	198.8	214.9	467.4	376.1	693.0	950.9	1490.8	1275.9	435.1
87.5°	80.6	88.6	204.1	120.9	244.4	174.6	300.8	351.9	453.9	394.9	155.8
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°	2146.2	2146.2	2146.2	2146.2	2146.2	2146.2	2146.2	2146.2	2146.2	2146.2	2146.2
2.5°	2130.1	2135.4	2151.5	2175.7	2189.2	2216.0	2234.8	2245.6	2253.6	2256.3	2256.3
5°	2111.3	2122.0	2156.9	2197.2	2234.8	2291.2	2342.3	2371.8	2393.3	2401.4	2404.0
7.5°	2116.6	2143.5	2194.5	2253.6	2302.0	2374.5	2436.3	2495.4	2543.7	2562.5	2562.5
10°	2167.7	2205.3	2275.1	2353.0	2414.8	2490.0	2554.5	2605.5	2661.9	2694.1	2699.5
12.5°	2245.6	2291.2	2382.6	2468.5	2538.3	2597.4	2656.5	2694.1	2721.0	2745.2	2750.5
15°	2355.7	2412.1	2503.4	2592.1	2653.8	2691.4	2707.6	2707.6	2704.9	2707.6	2712.9
17.5°	2465.8	2519.5	2610.9	2699.5	2729.1	2707.6	2688.8	2683.4	2680.7	2675.3	2678.0
20°	2573.3	2624.3	2702.2	2769.3	2745.2	2670.0	2645.8	2643.1	2635.0	2629.7	2624.3
22.5°	2680.7	2718.3	2782.8	2807.0	2710.3	2602.8	2573.3	2557.1	2546.4	2533.0	2519.5
25°	2804.3	2815.0	2863.4	2825.8	2624.3	2479.2	2436.3	2412.1	2401.4	2387.9	2377.2
27.5°	2919.8	2919.8	2927.8	2796.2	2498.1	2315.4	2250.9	2208.0	2205.3	2202.6	2199.9
30°	3024.5	3011.1	2984.2	2707.6	2334.2	2113.9	2017.2	1974.3	1990.4	2003.8	2006.5
32.5°	3148.1	3121.2	3046.0	2586.7	2138.1	1888.3	1770.1	1751.3	1770.1	1786.2	1775.5
35°	3341.5	3293.1	3110.5	2447.0	1950.1	1681.5	1568.7	1541.8	1536.4	1533.8	1512.3
37.5°	3618.1	3534.9	3161.5	2296.6	1764.8	1498.8	1415.6	1359.2	1308.1	1254.4	1246.3
40°	3956.6	3814.2	3196.4	2124.7	1568.7	1345.7	1257.1	1184.6	1098.6	1004.6	993.8
42.5°	4327.3	4115.1	3212.5	1934.0	1396.8	1219.5	1109.4	1018.0	921.3	848.8	835.4
45°	4727.5	4440.1	3199.1	1751.3	1257.1	1112.0	988.5	889.1	811.2	760.2	749.4
47.5°	5117.0	4813.5	3161.5	1606.3	1149.6	1020.7	894.5	803.1	744.0	687.6	674.2
50°	5616.6	5170.7	3115.8	1493.5	1031.5	929.4	835.4	738.7	671.5	644.7	639.3
52.5°	6169.9	5527.9	3062.1	1351.1	916.0	856.9	797.8	711.8	690.3	639.3	631.2
55°	6768.9	5952.3	3051.4	1171.1	813.9	805.8	760.2	736.0	741.4	639.3	625.9
57.5°	7400.1	6406.3	3075.6	991.2	730.6	760.2	776.3	757.5	749.4	652.7	625.9
60°	8058.2	6844.1	3003.0	824.6	666.1	722.6	795.1	746.7	687.6	647.3	628.5
62.5°	8697.5	7212.1	2688.8	706.4	617.8	711.8	784.3	706.4	639.3	639.3	631.2
65°	9162.2	7376.0	2103.2	620.5	585.6	698.4	765.5	679.6	625.9	644.7	633.9
67.5°	9215.9	7206.7	1412.9	553.3	558.7	674.2	722.6	655.4	612.4	660.8	644.7
70°	8885.5	6766.2	864.9	502.3	523.8	631.2	684.9	631.2	593.6	647.3	623.2
72.5°	8028.7	5944.3	609.7	459.3	486.2	590.9	650.0	609.7	566.8	585.6	561.4
75°	6586.3	4606.6	483.5	419.0	448.6	553.3	620.5	577.5	534.5	526.5	510.4
77.5°	4665.7	2952.0	389.5	386.8	408.3	507.7	580.2	539.9	496.9	480.8	470.1
80°	2683.4	1447.8	335.8	349.2	370.7	462.0	531.8	496.9	456.6	432.5	416.3
82.5°	1026.1	505.0	295.5	303.5	327.7	413.7	483.5	453.9	413.7	435.1	365.3
85°	333.1	276.7	241.7	249.8	274.0	343.8	427.1	402.9	357.2	317.0	292.8
87.5°	147.7	150.4	128.9	142.4	171.9	228.3	311.6	295.5	260.5	217.6	209.5
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)