

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: P348546

Luminaire Tested: **ARCH-N-PA1-60-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-60-740-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7706 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

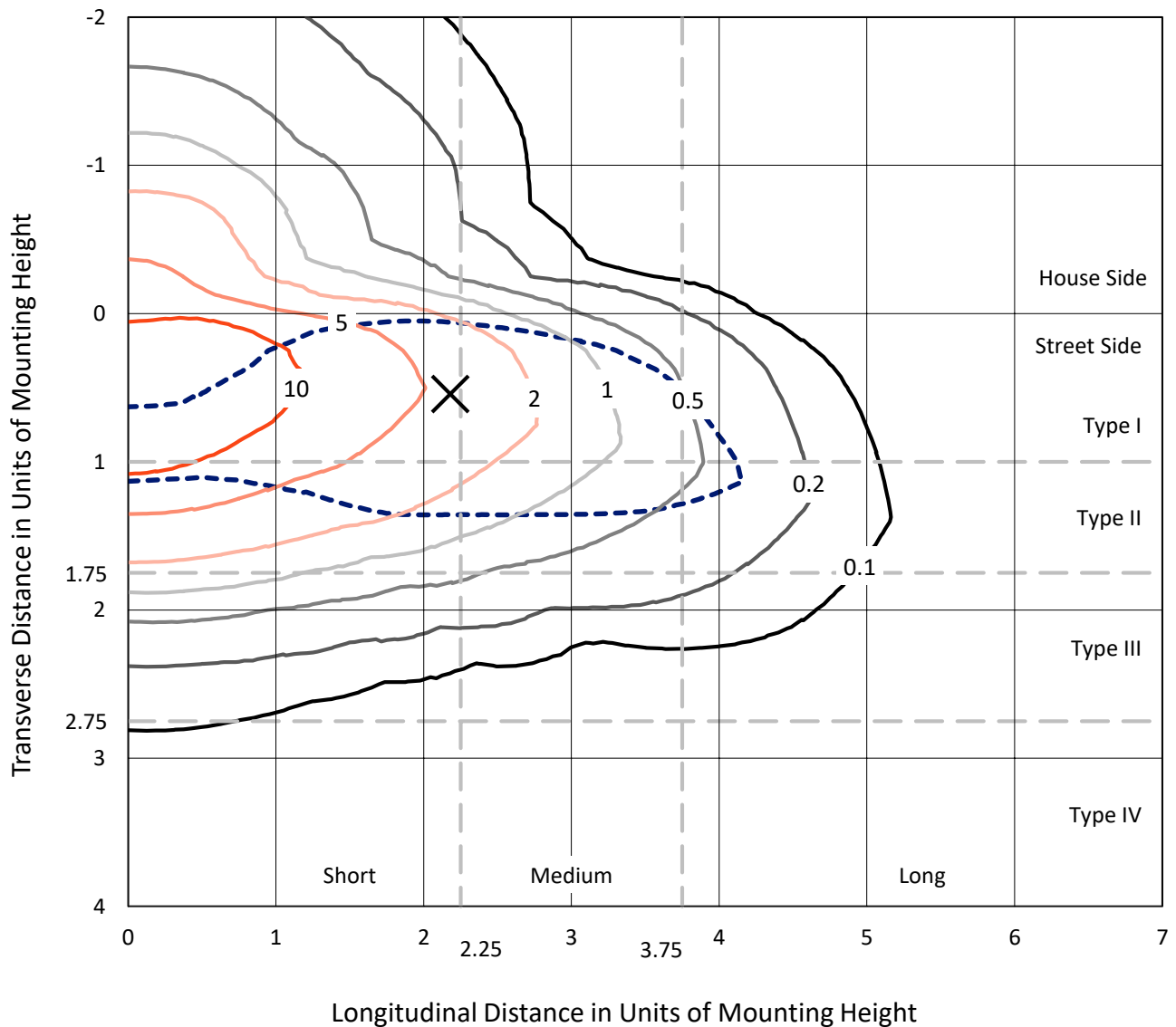
Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

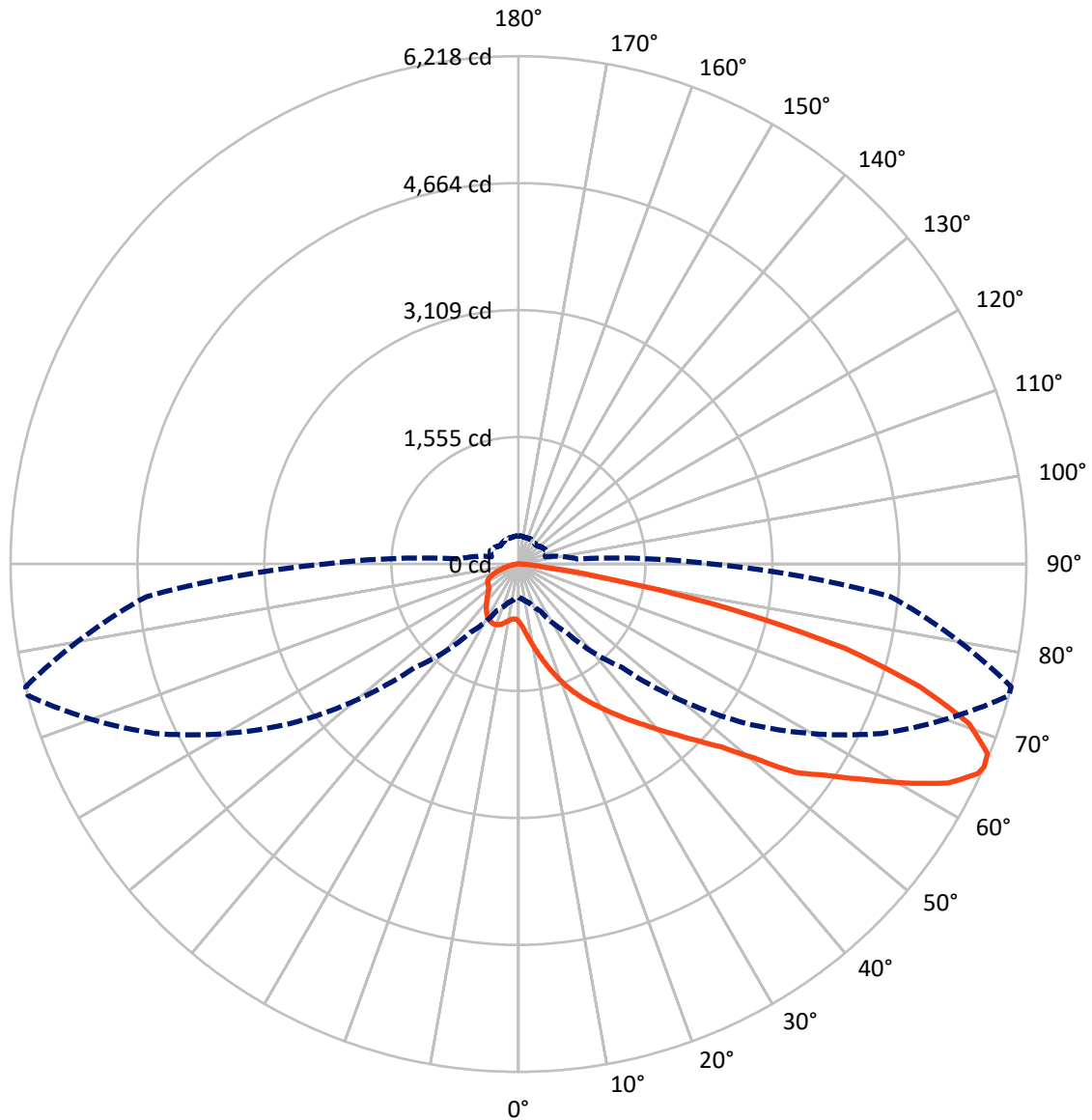
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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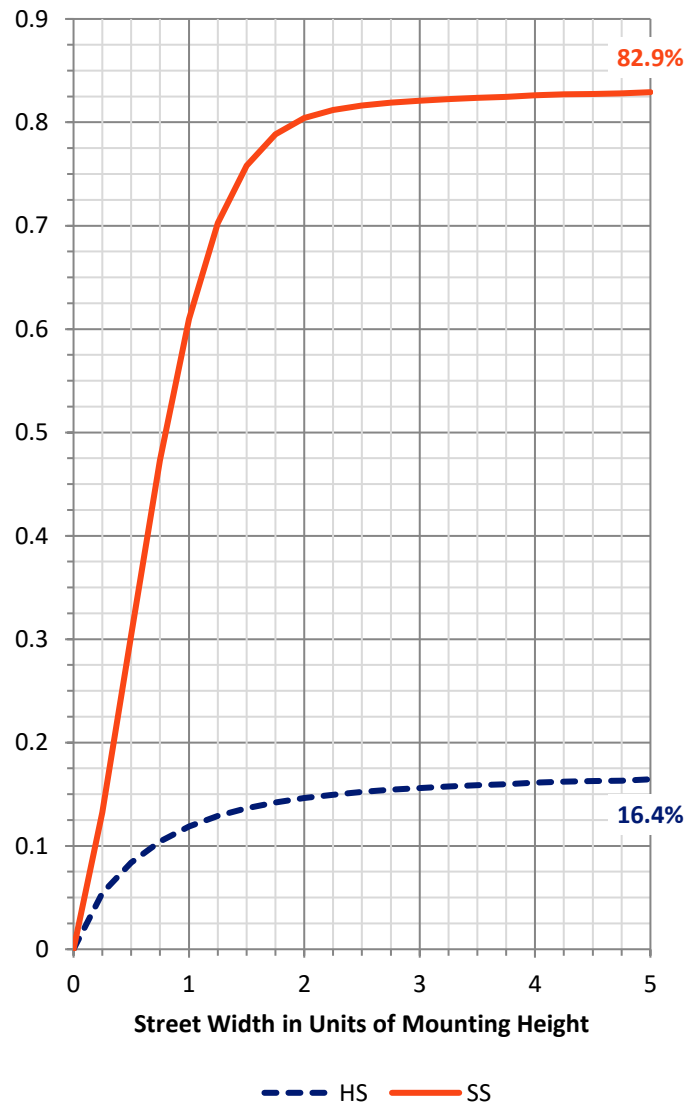
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1296.7	0.0	1296.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	6409.3	0.0	6409.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	7706.0	0.0	7706.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	1.1
10°-20°	336.1	4.4
20°-30°	653.0	8.5
30°-40°	1065.9	13.8
40°-50°	1456.3	18.9
50°-60°	1696.3	22.0
60°-70°	1520.7	19.7
70°-80°	768.5	10.0
80°-90°	124.1	1.6
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°	7706.0	100.0
0°-180°	7706.0	100.0



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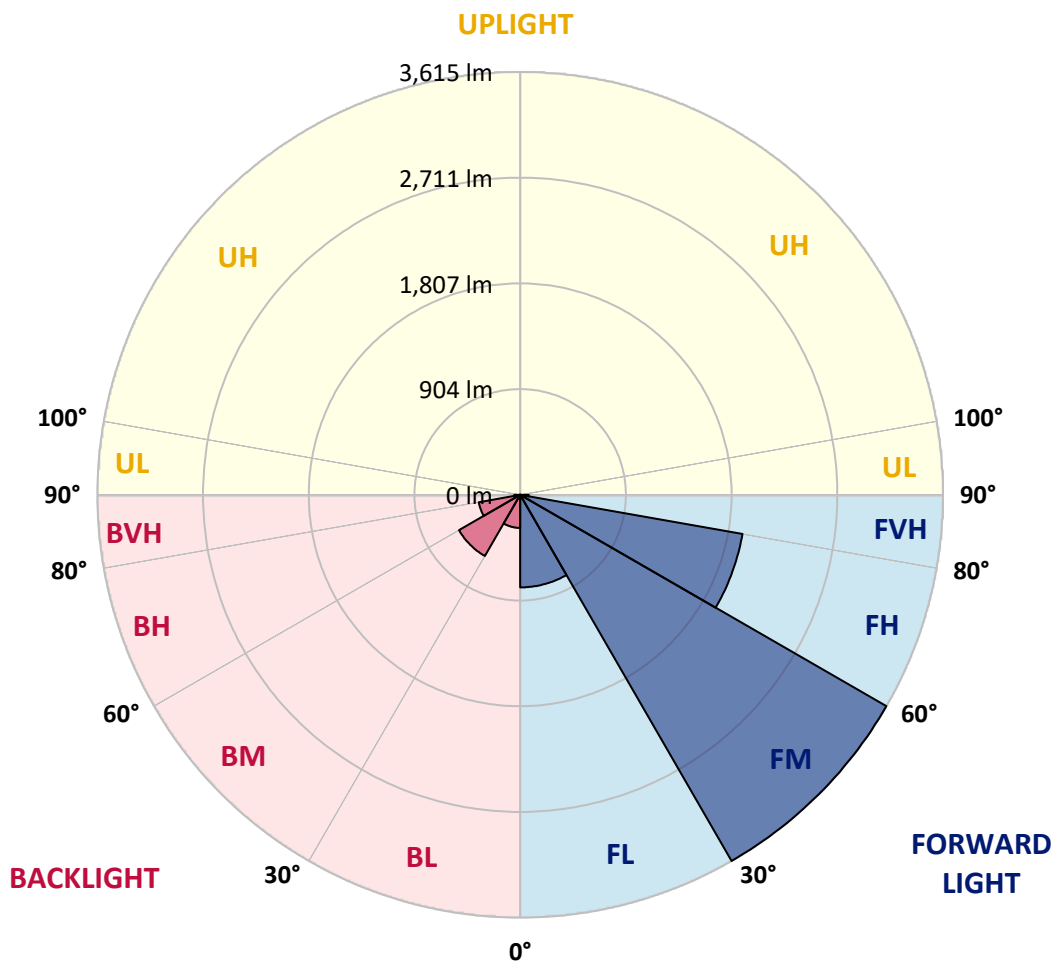
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	791.4	10.3			
FM (30°-60°)	3614.7	46.9			
FH (60°-80°)	1930.0	25.0			G2/5000
FVH (80°-90°)	73.3	1.0			G1/100
BL (0°-30°)	282.8	3.7	B1/500		
BM (30°-60°)	603.8	7.8	B1/1000		
BH (60°-80°)	359.2	4.7	B1/500		G1/500
BVH (80°-90°)	50.8	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	703.7	703.7	703.7	703.7	703.7	703.7	703.7	703.7	703.7	703.7	703.7
2.5°	934.2	920.1	918.8	898.1	893.4	853.9	824.9	794.5	760.0	753.2	726.0
5°	1200.0	1198.7	1180.6	1146.9	1120.5	1053.0	986.3	915.6	838.2	825.6	764.4
7.5°	1439.1	1437.0	1423.2	1386.8	1348.6	1265.7	1170.4	1062.1	936.6	918.0	816.5
10°	1620.7	1619.9	1615.2	1588.5	1556.1	1476.5	1371.4	1223.6	1050.9	1025.5	881.6
12.5°	1760.9	1762.5	1765.6	1756.2	1740.8	1673.0	1565.2	1394.6	1172.8	1147.7	954.1
15°	1855.9	1860.6	1876.8	1890.1	1898.2	1856.6	1752.3	1569.7	1309.4	1279.3	1034.4
17.5°	1903.7	1909.0	1937.0	1977.3	2014.4	2010.2	1927.3	1736.6	1440.4	1411.4	1120.7
20°	1945.1	1949.0	1980.4	2028.8	2094.5	2123.5	2076.9	1897.2	1584.1	1549.5	1212.3
22.5°	2064.9	2069.9	2079.3	2106.7	2164.8	2218.2	2195.7	2049.2	1715.6	1683.5	1299.2
25°	2296.2	2302.2	2281.8	2258.5	2269.5	2306.6	2310.8	2187.8	1849.1	1812.7	1392.6
27.5°	2574.8	2583.4	2548.6	2488.7	2436.4	2422.0	2417.0	2301.4	1976.5	1934.3	1484.9
30°	2847.6	2862.5	2817.3	2739.6	2643.6	2576.1	2526.1	2412.6	2102.0	2061.8	1572.0
32.5°	3114.2	3108.2	3042.5	2966.7	2854.2	2769.7	2648.8	2531.9	2243.3	2197.0	1658.6
35°	3296.8	3298.9	3238.0	3148.0	3040.7	2975.8	2813.1	2660.6	2387.5	2344.8	1757.0
37.5°	3452.2	3442.5	3373.5	3289.5	3197.1	3169.4	3005.4	2802.4	2543.6	2497.1	1861.6
40°	3504.0	3492.8	3447.5	3387.1	3313.0	3310.7	3217.5	2963.0	2720.2	2674.2	1979.6
42.5°	3472.6	3458.2	3439.7	3423.2	3400.4	3410.9	3416.9	3151.4	2914.3	2862.8	2116.2
45°	3356.7	3335.0	3348.1	3383.9	3433.4	3492.5	3596.9	3359.9	3131.7	3088.6	2276.5
47.5°	3178.6	3158.9	3199.8	3276.4	3410.9	3560.5	3767.2	3590.1	3391.3	3348.3	2504.9
50°	2927.9	2933.7	2992.0	3131.5	3334.7	3591.9	3977.0	3894.9	3768.5	3728.5	2816.5
52.5°	2516.7	2517.7	2682.0	2910.9	3199.8	3575.7	4093.4	4284.4	4283.6	4235.2	3113.2
55°	2134.7	2158.0	2288.0	2592.3	2981.0	3510.8	4174.8	4473.8	4621.9	4565.1	3389.7
57.5°	1761.7	1775.3	1898.5	2204.1	2668.9	3337.9	4258.2	4701.1	5011.7	4975.8	3733.4
60°	1337.4	1358.3	1485.7	1768.0	2269.7	3031.0	4266.1	4938.4	5477.6	5441.5	4117.2
62.5°	868.0	904.1	1023.4	1287.9	1786.8	2589.7	4084.0	5093.6	5919.2	5906.4	4457.8
65°	498.9	526.1	609.0	813.1	1232.7	2035.6	3651.0	5033.9	6191.0	6183.7	4585.2
66°	407.6	424.6	488.2	635.5	1017.1	1787.6	3399.4	4908.1	6218.0	6218.2	4570.6
67.5°	326.0	333.6	362.1	454.9	750.6	1416.9	2949.7	4630.5	6184.5	6193.6	4476.2
70°	269.7	273.6	282.5	305.0	409.7	854.4	2093.7	3909.2	5848.3	5855.4	4107.5
72.5°	242.0	244.3	247.7	250.9	289.1	477.4	1278.8	3127.3	5127.6	5136.7	3545.9
75°	219.2	220.5	220.0	220.3	242.5	304.3	660.8	2334.9	4146.0	4127.7	2716.3
77.5°	192.5	193.9	191.2	191.8	214.5	233.9	328.8	1634.5	2797.9	2668.7	1530.4
80°	162.7	163.8	162.7	164.6	186.8	176.6	191.2	919.6	1237.2	1170.2	544.1
82.5°	123.0	127.4	130.5	137.9	153.8	125.6	127.9	358.1	376.7	358.7	166.9
85°	53.9	65.7	98.4	105.4	115.6	75.3	84.0	146.0	153.3	148.6	60.7
87.5°	14.1	15.4	48.7	61.2	64.1	34.0	43.7	66.4	70.1	66.4	20.1
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°	703.7	703.7	703.7	703.7	703.7	703.7	703.7	703.7	703.7	703.7	703.7
2.5°	711.6	698.8	675.7	655.3	639.9	629.4	619.0	613.7	610.6	607.5	608.0
5°	734.3	708.4	668.9	640.9	625.2	615.3	610.1	608.0	606.7	603.5	603.5
7.5°	768.6	732.0	677.6	648.8	636.5	628.9	625.8	624.7	623.2	619.5	620.0
10°	811.8	760.5	695.6	667.6	656.4	648.0	643.6	642.0	639.1	634.9	635.5
12.5°	862.5	795.8	719.4	690.1	676.5	665.3	657.9	653.5	648.5	643.0	643.3
15°	918.0	834.3	745.1	710.3	691.7	676.0	664.2	656.6	648.8	642.0	641.7
17.5°	974.2	871.4	764.7	721.3	696.1	675.5	659.5	647.7	638.1	629.7	628.9
20°	1034.9	904.9	775.7	720.2	687.8	663.2	642.0	627.3	616.6	608.2	606.9
22.5°	1096.7	936.3	777.5	709.5	669.2	639.1	616.9	600.7	589.7	581.0	577.9
25°	1153.2	960.6	769.9	688.8	643.3	610.9	589.1	572.7	563.8	553.6	550.4
27.5°	1204.7	977.6	754.7	662.4	614.3	582.3	561.9	547.8	538.1	530.3	527.7
30°	1251.0	986.8	729.9	631.0	584.4	555.4	538.1	528.5	520.1	510.1	508.3
32.5°	1295.0	986.8	698.0	596.7	554.9	531.6	521.4	515.4	506.0	496.3	493.7
35°	1338.9	980.8	660.3	560.9	527.7	514.6	514.1	507.0	492.6	479.5	476.1
37.5°	1385.2	968.5	617.9	527.4	505.4	507.0	511.4	495.8	475.3	456.8	451.8
40°	1437.5	951.5	574.0	498.4	486.9	503.6	504.4	479.5	439.8	422.8	418.3
42.5°	1499.0	934.5	533.2	472.7	472.2	493.4	491.0	444.5	420.7	412.0	409.7
45°	1579.9	924.8	494.4	448.4	460.7	476.9	468.3	425.1	415.2	410.2	408.1
47.5°	1707.3	929.8	458.9	429.0	449.2	460.4	425.9	417.3	410.2	404.2	402.1
50°	1866.9	926.9	430.1	415.7	436.1	443.2	406.8	407.1	403.4	396.6	393.5
52.5°	1986.9	904.4	411.5	408.1	424.6	412.6	394.8	397.1	395.3	385.4	382.0
55°	2102.8	885.0	402.1	405.2	416.2	374.4	380.6	386.4	384.6	374.9	373.3
57.5°	2247.0	881.4	396.3	406.0	409.2	355.3	367.0	374.6	373.3	369.1	368.3
60°	2423.6	882.4	391.1	407.3	401.3	341.1	354.2	363.9	364.7	363.9	363.4
62.5°	2520.6	853.9	378.0	403.7	387.4	328.8	340.9	355.0	355.3	356.8	356.6
65°	2438.2	768.6	353.7	390.8	364.2	318.6	329.4	344.8	340.9	347.9	347.9
66°	2358.2	719.4	341.7	382.5	354.2	314.7	325.7	339.6	334.6	344.3	344.3
67.5°	2194.6	636.5	319.9	364.7	340.1	309.2	321.5	330.9	324.1	338.5	337.5
70°	1895.9	492.4	276.3	324.4	316.8	301.1	315.8	313.7	303.7	325.7	321.5
72.5°	1598.4	374.1	221.8	271.6	281.5	290.9	307.7	291.7	279.1	294.6	285.4
75°	1240.3	281.2	175.3	211.1	237.8	275.0	298.0	266.3	248.3	246.7	241.7
77.5°	670.5	193.1	138.9	161.2	188.9	255.1	291.4	239.1	211.9	205.6	201.7
80°	265.5	125.6	101.0	122.2	132.1	226.3	275.7	207.5	174.8	168.5	162.5
82.5°	109.6	74.3	65.1	81.9	86.1	193.6	247.5	170.0	135.0	186.8	198.3
85°	47.1	40.8	38.7	42.4	48.7	135.8	197.0	129.8	145.7	130.0	103.3
87.5°	14.1	17.3	16.5	16.2	17.8	32.4	104.9	72.2	107.0	40.5	30.3
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)