

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: P348679

Luminaire Tested: **ARCH-N-PA1-60-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-60-827-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5610 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Short - Non-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

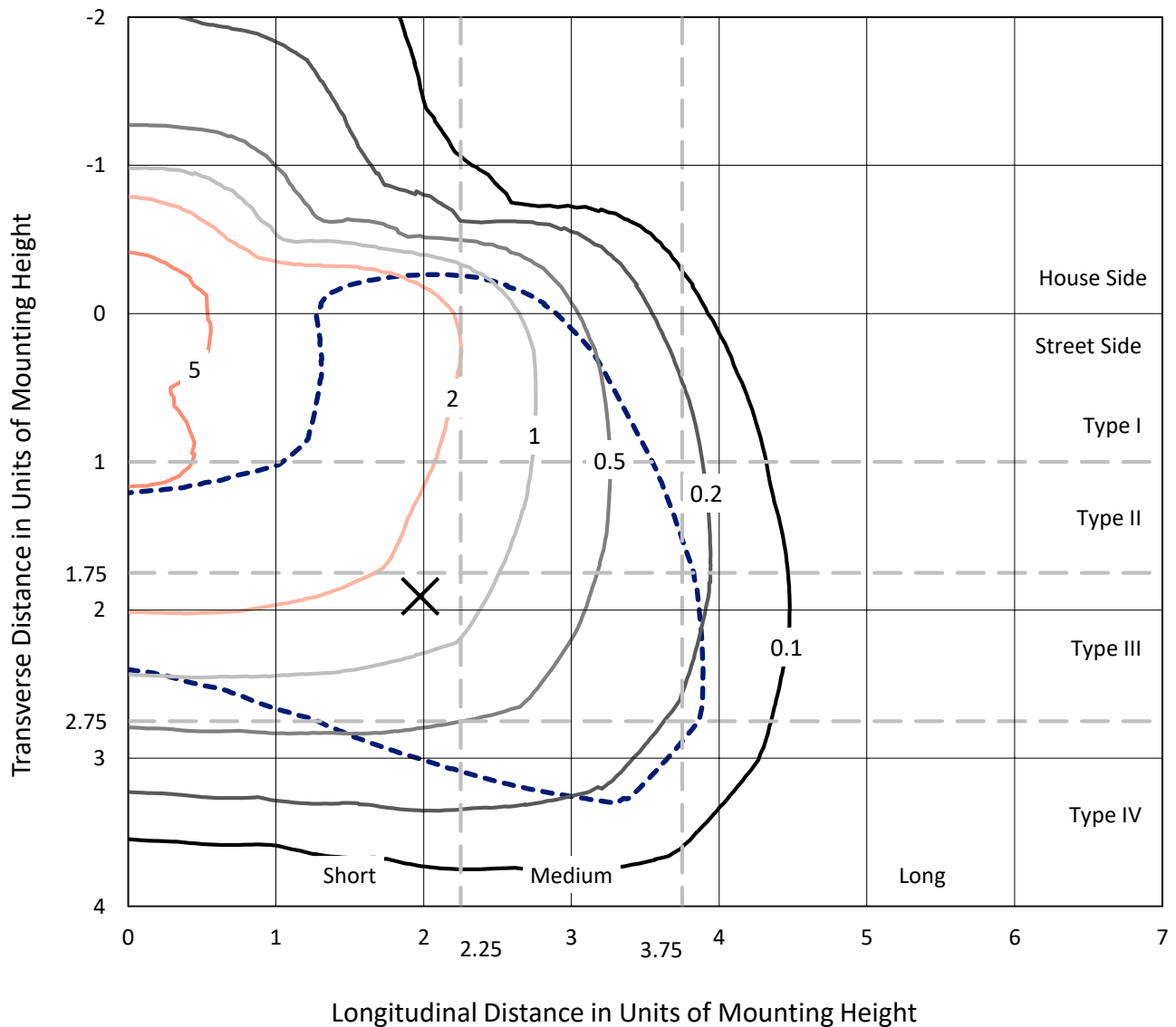


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Iso-Footcandle Lines of Horizontal Illumination

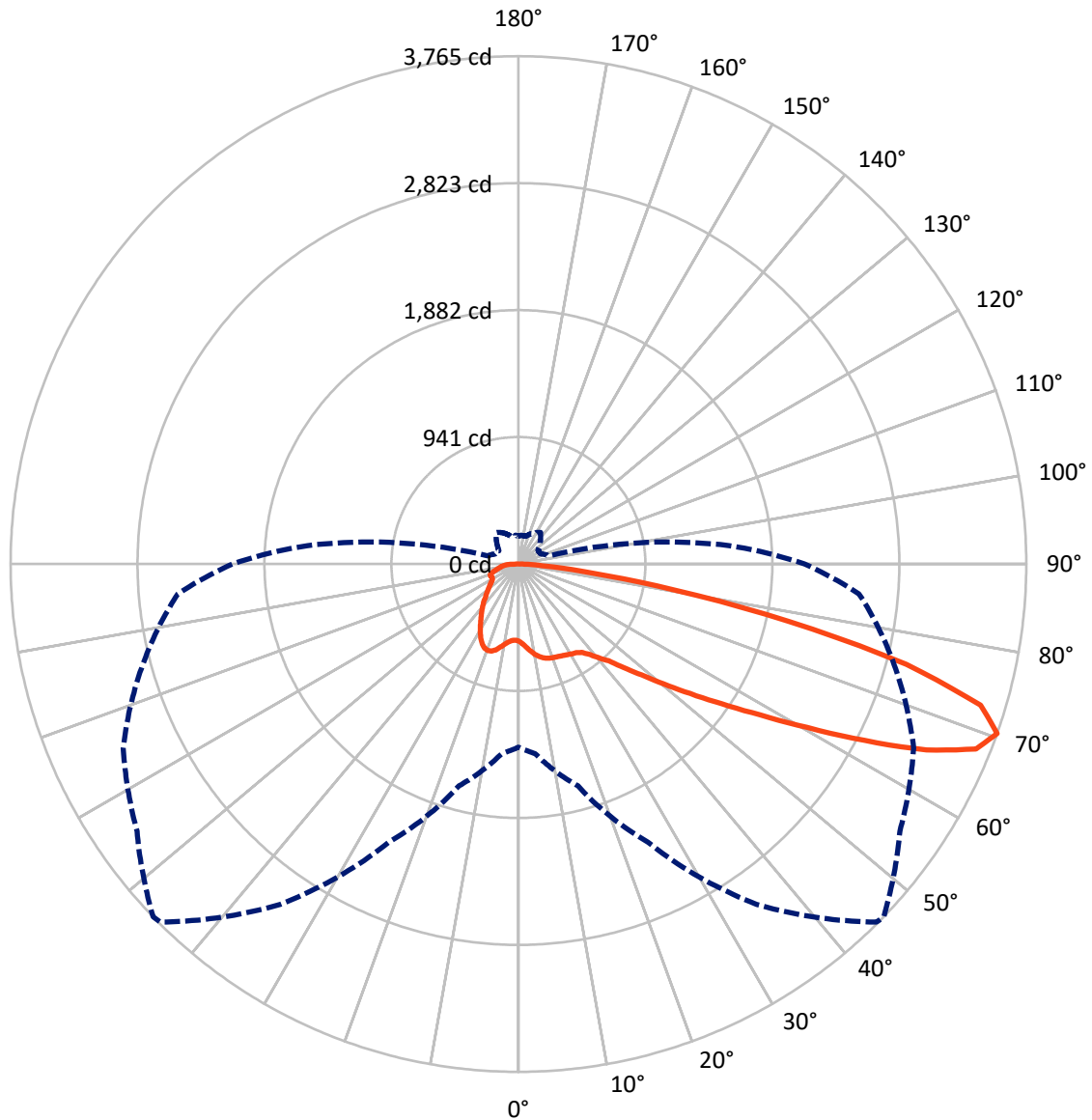
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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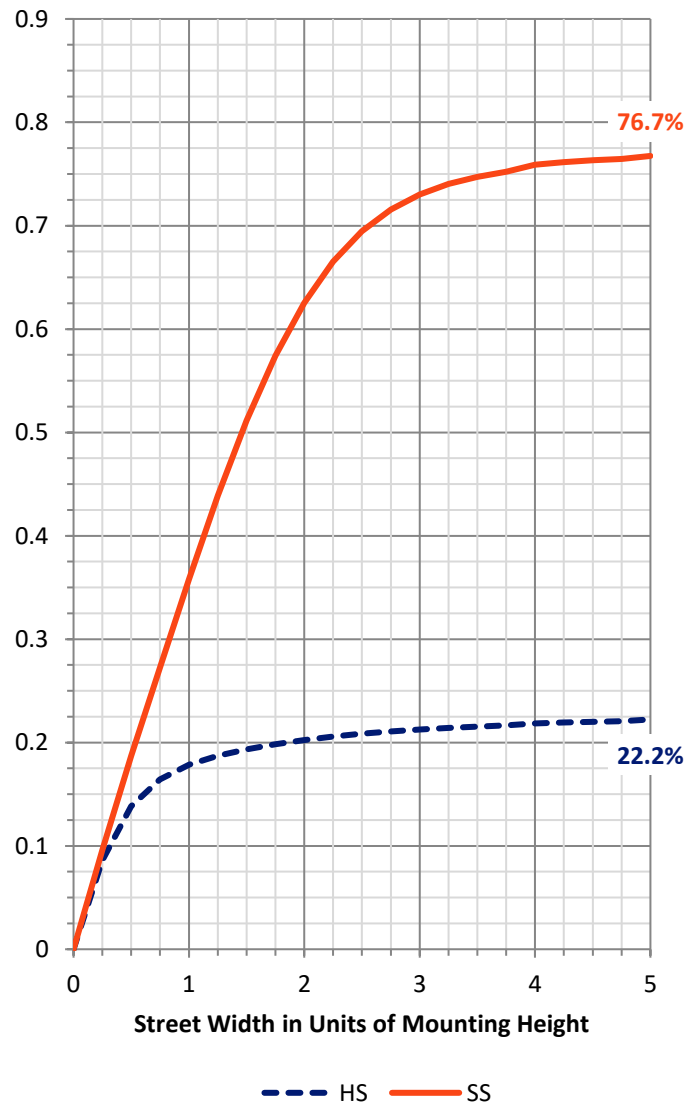
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1285.8	0.0	1285.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	4324.2	0.0	4324.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	5610.0	0.0	5610.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	1.0
10°-20°	194.1	3.5
20°-30°	323.7	5.8
30°-40°	459.3	8.2
40°-50°	675.6	12.0
50°-60°	1144.2	20.4
60°-70°	1624.1	29.0
70°-80°	986.7	17.6
80°-90°	144.0	2.6
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°	5610.0	100.0
0°-180°	5610.0	100.0

Coefficient of Utilization



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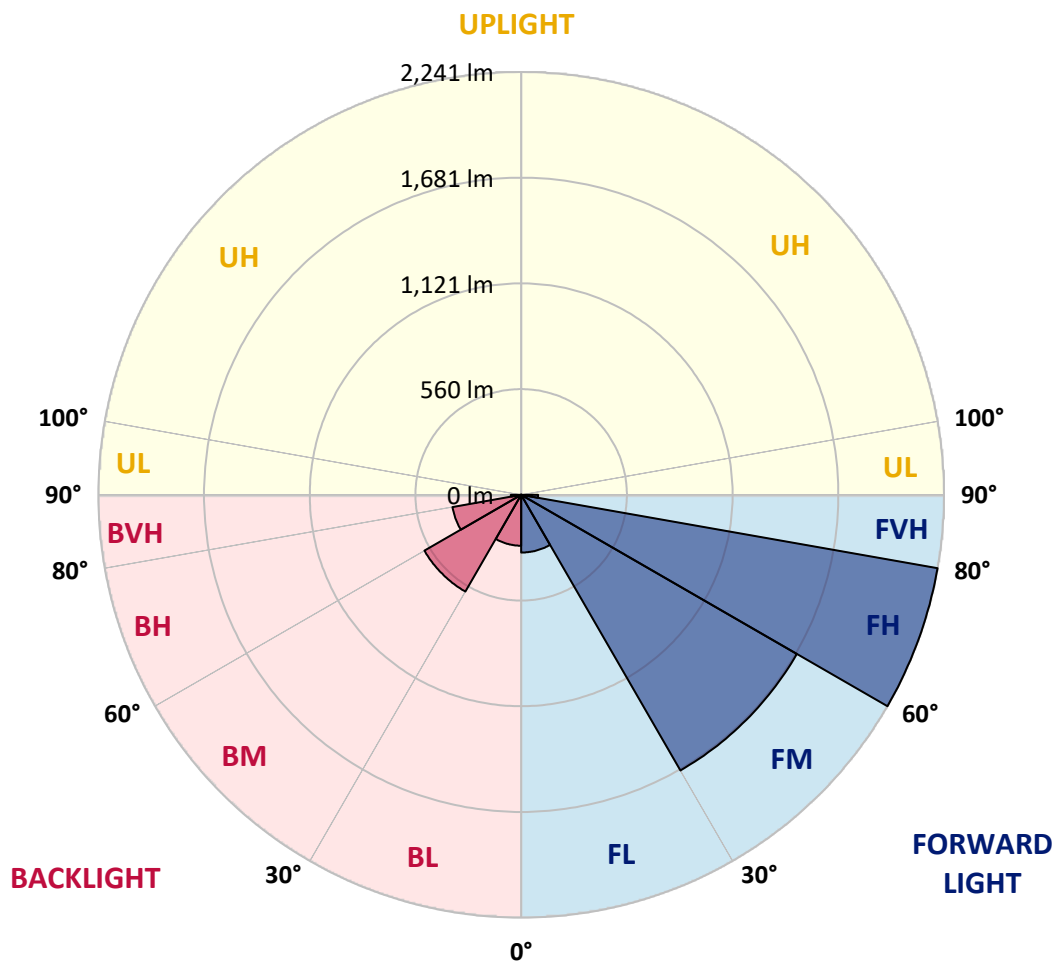
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	306.1	5.5			
FM	(30°-60°)	1687.2	30.1			
FH	(60°-80°)	2241.2	39.9			G2/5000
FVH	(80°-90°)	89.7	1.6			G1/100
BL	(0°-30°)	270.0	4.8	B1/500		
BM	(30°-60°)	591.9	10.6	B1/1000		
BH	(60°-80°)	369.7	6.6	B1/500		G1/500
BVH	(80°-90°)	54.3	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	571.5	571.5	571.5	571.5	571.5	571.5	571.5	571.5	571.5	571.5	571.5
2.5°	600.2	600.5	601.3	599.4	594.0	592.5	591.9	586.3	582.7	577.3	572.7
5°	648.2	648.5	647.4	642.0	630.1	621.3	620.5	607.8	596.3	584.0	574.8
7.5°	698.3	698.8	695.2	685.0	668.3	653.0	652.0	634.7	617.2	598.6	584.8
10°	742.6	740.3	734.4	720.1	700.4	681.6	680.8	662.7	642.6	620.1	601.7
12.5°	772.2	770.3	762.6	745.3	723.6	706.3	704.8	688.1	668.5	643.9	621.9
15°	788.5	789.8	779.5	759.9	738.8	724.2	722.8	710.9	693.5	668.7	643.4
17.5°	790.6	791.8	781.8	762.4	745.1	735.1	734.5	726.7	714.0	690.2	663.7
20°	778.3	779.1	770.8	754.9	743.6	740.5	740.3	736.9	727.4	706.3	680.6
22.5°	760.5	761.0	755.1	743.6	739.7	744.5	745.9	744.5	737.8	718.0	693.8
25°	756.0	755.7	749.5	737.8	741.1	751.3	753.0	753.6	748.9	731.7	710.7
27.5°	777.4	776.0	764.3	745.5	747.6	759.9	762.2	767.8	764.9	749.7	729.9
30°	839.0	836.7	812.7	774.7	764.3	770.6	773.5	782.4	782.9	770.3	755.5
32.5°	943.0	940.2	897.2	829.2	792.5	781.6	784.3	797.5	804.6	794.8	778.9
35°	1074.6	1071.3	1014.9	921.9	839.8	802.5	804.4	815.0	829.2	815.4	794.3
37.5°	1211.6	1203.8	1149.4	1031.0	914.8	847.2	847.2	848.6	855.3	826.5	812.3
40°	1347.9	1340.1	1290.9	1159.2	1012.0	917.7	913.3	883.5	878.2	853.4	848.6
42.5°	1474.7	1472.4	1443.4	1304.2	1126.0	987.0	980.9	930.4	931.5	916.2	916.4
45°	1609.4	1609.4	1585.8	1450.5	1258.9	1098.4	1092.2	1017.9	1029.4	1022.3	1039.4
47.5°	1719.4	1722.9	1719.6	1602.9	1413.4	1239.9	1228.7	1139.3	1171.5	1195.9	1245.6
50°	1831.8	1837.1	1837.7	1770.1	1600.2	1408.0	1395.4	1300.3	1372.3	1442.2	1539.9
52.5°	1994.8	2006.9	1958.7	1937.0	1829.1	1607.7	1595.2	1507.5	1627.7	1725.8	1894.2
55°	2145.9	2135.3	2100.9	2114.4	2074.0	1835.0	1825.6	1748.6	1912.2	2039.7	2258.4
57.5°	2227.6	2226.9	2261.4	2319.0	2338.2	2115.3	2107.5	2032.6	2233.0	2328.8	2600.3
60°	2323.6	2325.0	2410.6	2541.3	2620.4	2464.4	2460.9	2404.1	2544.6	2598.8	2868.5
62.5°	2337.1	2361.3	2508.7	2733.7	2884.6	2872.1	2879.8	2738.7	2823.4	2814.2	3068.7
65°	2182.5	2214.4	2481.3	2791.9	3147.3	3318.1	3325.2	3075.3	3043.2	2998.3	3140.4
67.5°	1865.7	1913.0	2202.9	2665.4	3233.9	3647.8	3657.8	3336.2	3225.6	3060.7	2967.9
70°	1357.7	1410.2	1702.0	2276.4	3079.5	3753.2	3764.5	3451.6	3232.5	2883.1	2533.7
72.5°	820.2	861.3	1101.8	1675.9	2599.1	3561.2	3581.3	3305.3	2951.2	2442.1	1870.9
75°	360.2	387.0	532.8	965.7	1860.8	2946.4	2971.6	2829.1	2397.9	1774.7	1105.9
77.5°	153.4	161.1	218.5	419.5	1051.9	2013.4	2047.9	2067.1	1626.9	965.7	467.3
80°	95.6	98.7	123.6	189.9	492.3	1130.8	1168.1	1216.2	807.9	355.0	163.2
82.5°	58.2	61.6	82.2	114.8	256.3	512.6	530.5	564.4	313.5	153.4	84.5
85°	34.9	37.4	50.3	72.6	145.9	201.6	201.4	222.7	147.6	98.7	44.5
87.5°	16.7	18.6	26.9	37.6	73.5	75.6	70.8	80.3	89.7	64.7	22.5
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°	571.5	571.5	571.5	571.5	571.5	571.5	571.5	571.5	571.5	571.5	571.5
2.5°	571.2	570.4	567.9	566.0	565.6	564.4	563.5	564.1	564.8	565.0	565.0
5°	571.0	568.9	565.6	564.3	566.0	568.3	571.2	575.0	577.3	579.0	580.2
7.5°	580.2	576.2	572.5	571.7	575.2	581.3	587.9	595.9	601.5	605.3	606.1
10°	595.5	590.6	586.9	587.7	593.8	602.7	611.9	622.2	630.7	635.9	636.2
12.5°	613.2	608.4	605.0	608.2	618.4	629.1	638.7	647.8	655.4	660.6	660.6
15°	633.6	630.1	626.1	633.6	647.4	657.0	661.0	665.4	669.7	673.5	672.7
17.5°	653.1	649.9	647.8	656.6	671.0	675.4	672.7	669.5	669.5	671.6	672.0
20°	670.0	667.2	668.5	677.1	684.6	680.0	670.0	659.7	655.4	656.6	657.8
22.5°	684.8	683.5	687.5	691.5	686.2	670.0	651.6	637.6	632.4	632.0	632.4
25°	702.1	701.9	706.9	699.6	675.8	646.0	621.3	607.6	604.8	607.1	610.9
27.5°	723.6	725.7	728.2	701.5	654.7	609.8	584.6	575.2	578.1	583.6	587.3
30°	751.1	756.8	751.4	696.7	624.3	568.3	544.3	541.6	549.5	557.3	561.2
32.5°	777.7	786.8	773.7	684.2	585.2	524.3	505.7	504.9	514.5	522.2	527.6
35°	799.2	817.1	790.4	659.5	539.9	483.8	470.2	465.0	468.5	477.5	483.6
37.5°	827.3	857.0	801.9	621.7	490.7	450.4	434.5	422.6	419.5	423.1	426.2
40°	878.5	917.9	807.3	568.9	442.7	417.0	400.9	383.4	371.3	362.5	362.7
42.5°	962.2	997.2	803.9	504.7	398.4	384.4	366.1	346.0	326.4	306.4	304.9
45°	1098.2	1115.1	793.5	436.8	359.4	350.2	333.1	312.9	286.8	264.2	262.1
47.5°	1315.7	1278.3	777.4	377.4	325.0	321.2	305.5	282.2	254.6	236.3	234.8
50°	1612.3	1513.8	769.5	330.2	294.7	295.9	283.0	258.4	232.3	218.9	217.3
52.5°	1967.1	1788.2	784.7	293.7	270.3	274.4	264.8	241.7	219.8	209.3	207.7
55°	2335.2	2072.3	801.0	267.2	247.3	255.2	251.9	232.9	213.1	203.3	202.0
57.5°	2650.2	2284.5	768.3	245.7	226.7	239.0	241.9	227.3	209.7	200.8	199.3
60°	2848.5	2369.9	682.7	225.6	210.4	226.2	236.1	225.8	211.0	210.2	209.1
62.5°	2942.6	2362.4	554.3	209.7	200.2	220.6	240.4	234.4	226.4	233.3	233.8
65°	2900.4	2249.5	412.8	199.1	192.9	222.7	253.0	250.7	230.8	237.7	238.6
67.5°	2622.4	1980.2	305.6	189.9	184.9	228.7	276.1	256.1	222.1	227.1	224.1
70°	2119.6	1569.9	235.8	179.5	176.6	227.9	286.4	252.8	212.7	213.9	205.6
72.5°	1461.6	1070.5	191.8	169.9	164.7	207.7	279.2	244.8	204.9	196.0	185.1
75°	794.8	574.6	163.0	159.9	143.8	182.4	265.7	239.0	197.7	186.0	179.9
77.5°	312.7	238.4	141.5	146.3	125.8	161.1	250.7	228.1	188.0	172.6	169.5
80°	127.7	121.7	117.3	126.5	108.1	140.9	232.7	215.2	176.2	160.1	154.0
82.5°	72.4	75.6	91.2	99.8	87.7	129.8	224.1	204.9	162.2	143.4	136.1
85°	37.1	44.3	63.5	71.6	64.5	110.4	206.4	179.3	130.2	109.8	110.4
87.5°	17.9	24.8	40.1	44.9	41.9	79.9	154.2	130.0	101.4	80.3	77.8
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)