

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: P397838

Luminaire Tested: **ARCH-S-PA1-50-730-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397838
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-S-PA1-50-730-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7165 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 54
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

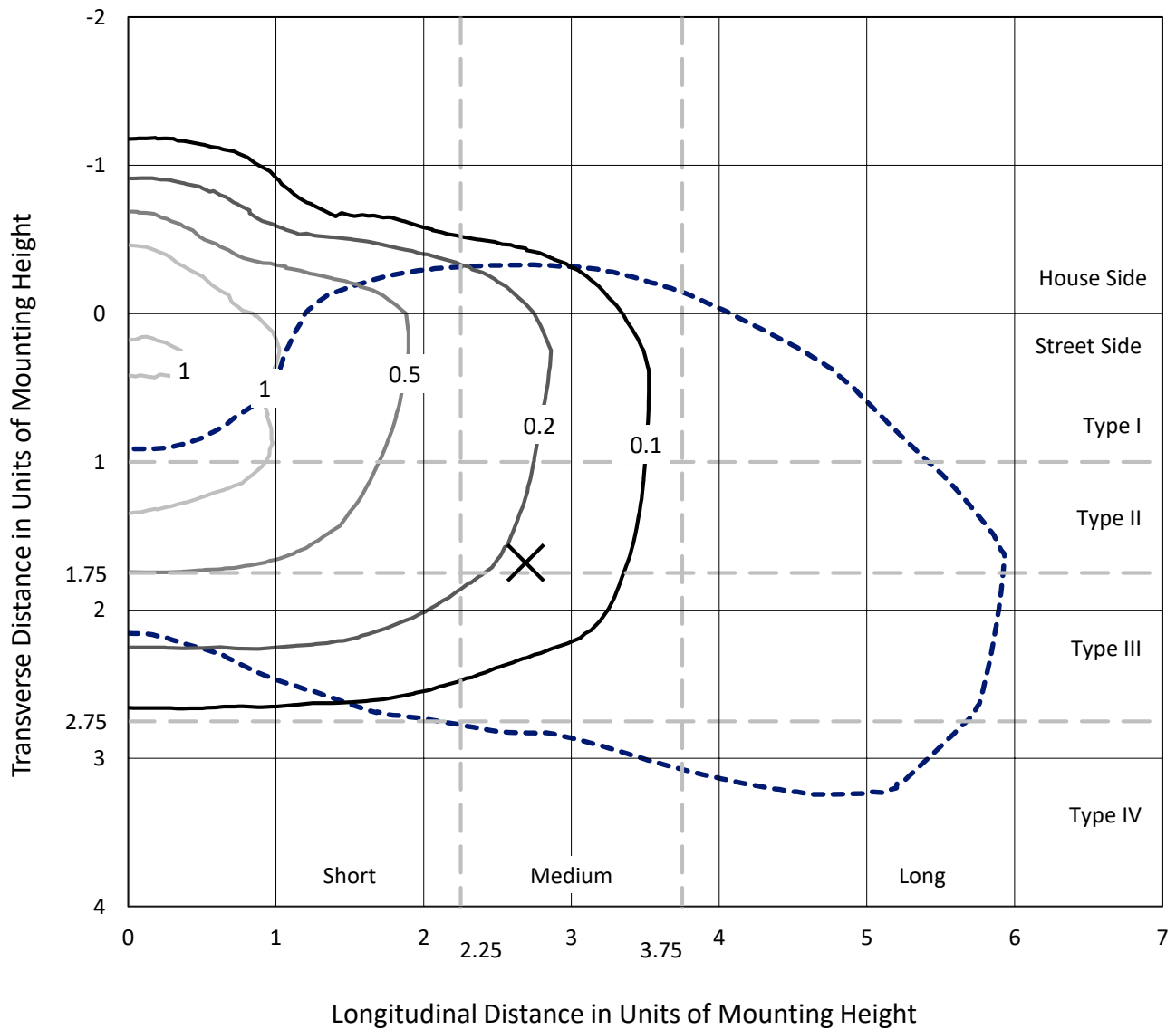


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

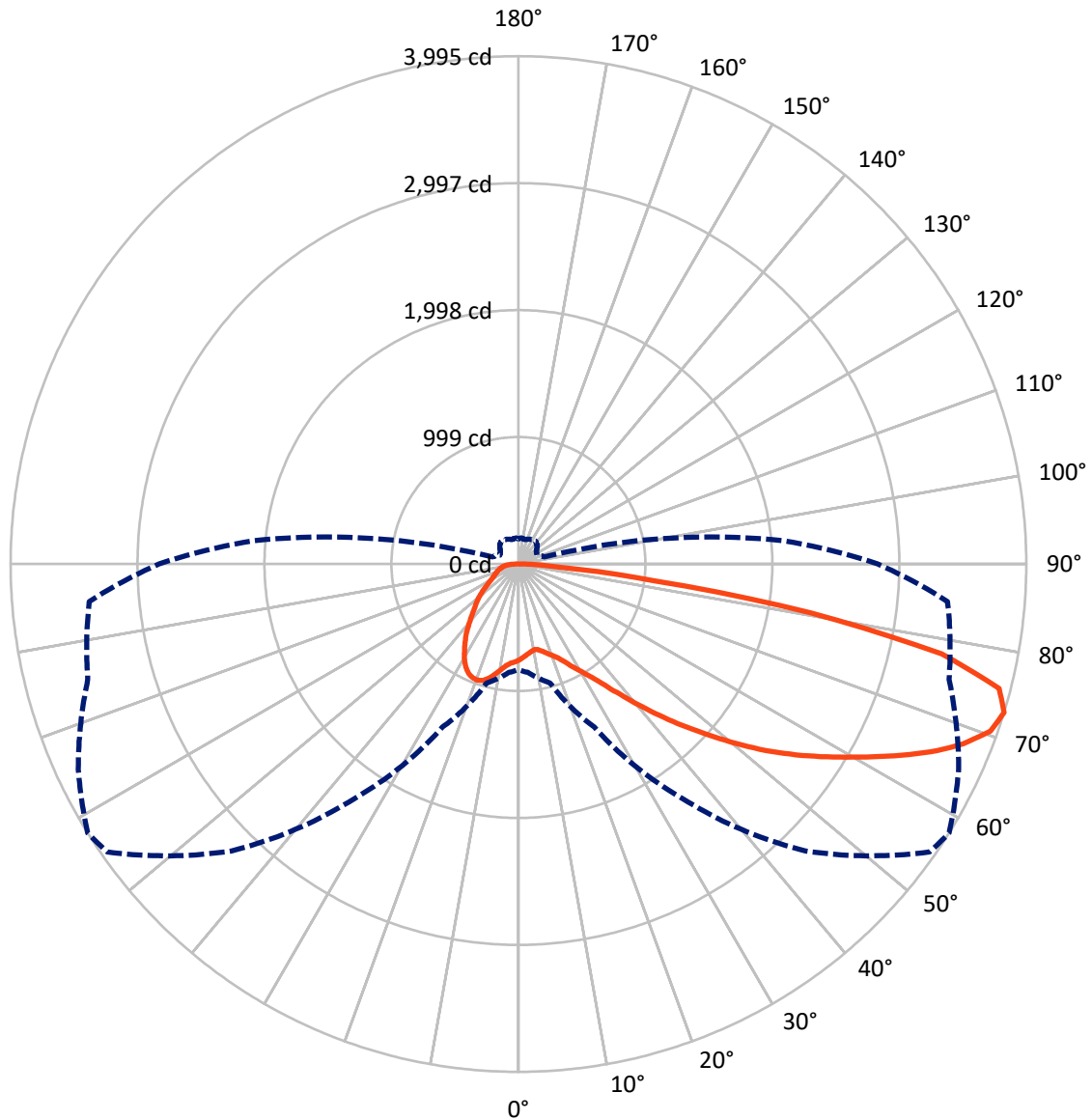


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Medium - Non-Cutoff

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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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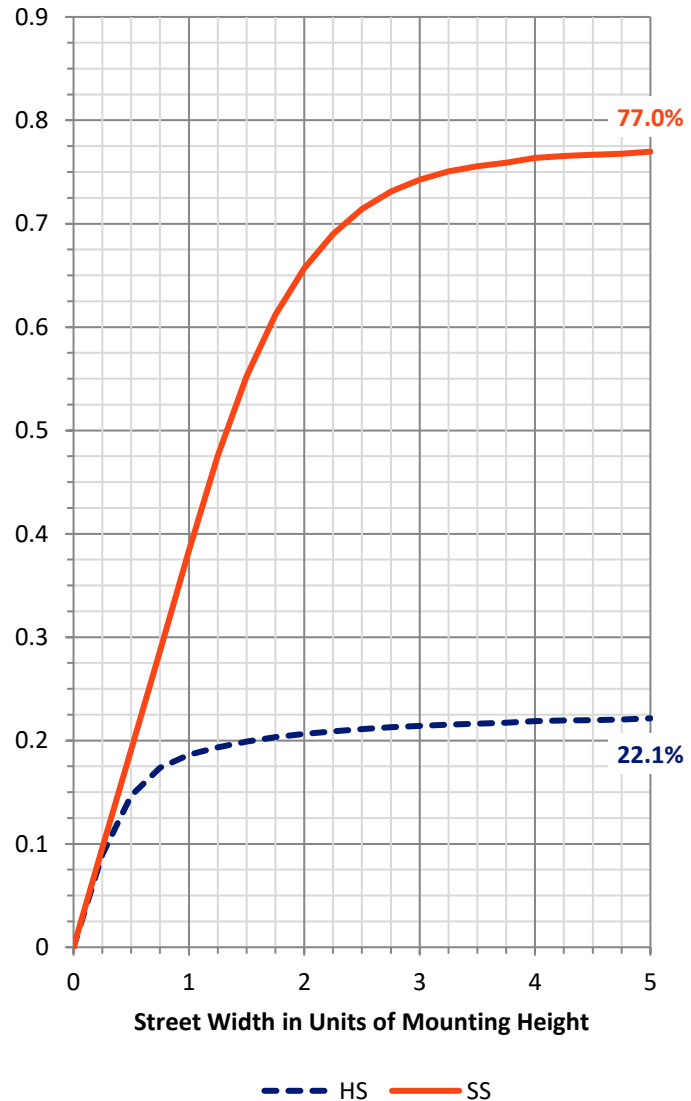
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1624.9	0.0	1624.9
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	5540.1	0.0	5540.1
	% Fixture	77.3	0.0	77.3
Total	Lumens	7165.0	0.0	7165.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	1.0
10°-20°	231.2	3.2
20°-30°	414.2	5.8
30°-40°	623.0	8.7
40°-50°	1008.9	14.1
50°-60°	1518.7	21.2
60°-70°	1787.3	24.9
70°-80°	1267.4	17.7
80°-90°	241.5	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°	7165.0	100.0
0°-180°	7165.0	100.0

Coefficient of Utilization



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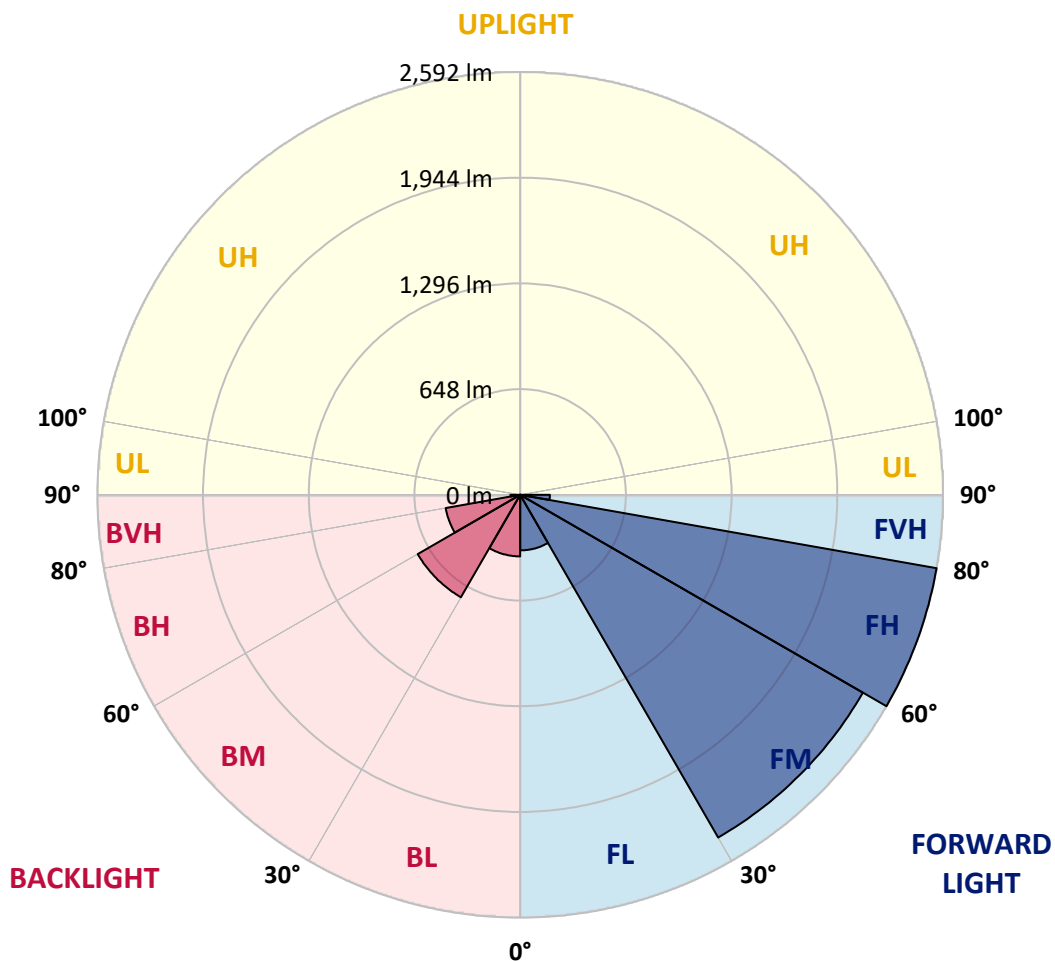
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	340.7	4.8			
FM	(30°-60°)	2425.6	33.9			
FH	(60°-80°)	2591.6	36.2			G2/5000
FVH	(80°-90°)	182.2	2.5			G2/225
BL	(0°-30°)	377.4	5.3	B1/500		
BM	(30°-60°)	725.0	10.1	B1/1000		
BH	(60°-80°)	463.1	6.5	B1/500		G1/500
BVH	(80°-90°)	59.3	0.8			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	755.8	755.8	755.8	755.8	755.8	755.8	755.8	755.8	755.8	755.8	755.8
2.5°	727.4	723.6	724.5	724.5	728.3	730.2	731.2	734.0	735.9	740.6	747.2
5°	693.3	690.5	691.4	692.4	699.0	705.6	711.3	715.1	720.8	728.3	737.8
7.5°	668.7	666.8	667.8	669.7	675.4	682.9	692.4	698.1	706.6	720.8	736.8
10°	650.8	650.8	651.7	655.5	661.2	670.6	678.2	684.8	701.8	727.4	752.0
12.5°	636.6	636.6	639.4	647.0	656.4	665.9	683.9	691.4	714.1	749.1	778.5
15°	635.6	636.6	637.5	644.1	654.5	675.4	701.8	713.2	740.6	782.2	816.3
17.5°	650.8	651.7	647.9	649.8	662.1	691.4	726.4	739.7	774.7	820.1	855.1
20°	697.1	697.1	685.8	675.4	683.9	716.0	755.8	769.0	807.8	857.9	892.9
22.5°	791.7	796.4	769.9	747.2	734.0	752.0	787.9	802.1	845.6	899.5	934.5
25°	906.1	910.9	874.9	842.8	818.2	815.3	839.0	854.1	890.1	945.9	975.2
27.5°	1016.8	1008.3	975.2	944.9	913.7	888.2	906.1	919.4	961.0	1003.6	1021.5
30°	1103.8	1097.2	1065.1	1043.3	1014.0	980.9	970.5	984.7	1018.7	1058.4	1067.9
32.5°	1200.3	1195.6	1163.4	1135.1	1110.5	1079.2	1056.5	1063.2	1082.1	1110.5	1116.1
35°	1323.3	1333.7	1299.6	1241.9	1214.5	1184.2	1168.2	1170.0	1184.2	1202.2	1192.8
37.5°	1452.9	1465.2	1467.1	1376.3	1339.4	1311.9	1294.9	1301.5	1318.6	1330.8	1301.5
40°	1693.1	1680.8	1631.6	1564.5	1507.7	1481.2	1457.6	1456.6	1468.9	1490.7	1437.7
42.5°	2011.9	2000.5	1901.2	1814.2	1724.3	1694.1	1647.7	1627.9	1633.5	1661.0	1587.2
45°	2317.4	2312.7	2233.2	2132.0	2024.2	1965.5	1859.6	1811.4	1806.6	1828.4	1740.4
47.5°	2588.9	2568.1	2510.4	2431.8	2420.5	2267.3	2072.4	2007.1	1984.4	1996.7	1898.4
50°	2879.2	2808.3	2728.9	2680.6	2762.9	2620.1	2287.1	2219.0	2163.2	2171.7	2069.6
52.5°	3033.4	2914.2	2862.2	2876.4	2987.1	2932.2	2520.8	2437.5	2347.7	2360.0	2239.8
55°	2901.0	2900.1	2922.8	3010.7	3164.9	3101.5	2743.0	2649.4	2551.0	2553.9	2435.6
57.5°	2719.4	2756.3	2873.6	3067.5	3385.3	3279.4	2961.5	2862.2	2772.4	2758.2	2657.9
60°	2553.9	2594.5	2764.8	3058.0	3461.9	3442.0	3169.6	3082.6	3009.8	2968.2	2891.5
62.5°	2302.3	2332.5	2573.7	2997.5	3397.6	3559.3	3380.6	3321.0	3266.1	3180.0	3143.1
65°	2006.2	2016.6	2271.0	2797.9	3317.2	3604.7	3590.5	3564.1	3511.1	3384.3	3391.9
67.5°	1685.6	1706.4	1929.6	2479.1	3141.3	3583.9	3753.2	3775.0	3712.6	3522.4	3550.8
70°	1344.1	1369.6	1538.9	2038.4	2842.4	3494.1	3903.6	3938.6	3818.5	3567.8	3580.1
72.5°	831.4	856.0	969.5	1416.0	2253.1	3192.3	3950.0	3995.4	3821.3	3507.3	3389.1
75°	287.5	290.4	379.3	679.1	1337.5	2410.1	3798.6	3905.5	3701.2	3286.9	2949.2
77.5°	131.5	136.2	168.4	280.0	593.1	1300.6	3136.5	3404.2	3336.1	2942.6	2270.1
80°	90.8	92.7	116.3	167.4	342.4	457.8	1979.7	2328.7	2447.9	2278.6	1454.8
82.5°	68.1	70.0	89.9	113.5	246.9	222.3	753.9	1082.1	1345.0	1320.4	608.2
85°	65.3	64.3	70.0	75.7	164.6	132.4	244.0	334.8	525.0	449.3	153.2
87.5°	28.4	31.2	71.9	42.6	86.1	61.5	105.9	123.9	159.9	139.0	54.9
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°	755.8	755.8	755.8	755.8	755.8	755.8	755.8	755.8	755.8	755.8	755.8
2.5°	750.1	752.0	757.6	766.2	770.9	780.3	787.0	790.8	793.6	794.5	794.5
5°	743.5	747.2	759.5	773.7	787.0	806.8	824.8	835.2	842.8	845.6	846.6
7.5°	745.4	754.8	772.8	793.6	810.6	836.2	857.9	878.7	895.7	902.4	902.4
10°	763.3	776.6	801.2	828.6	850.3	876.8	899.5	917.5	937.4	948.7	950.6
12.5°	790.8	806.8	839.0	869.3	893.9	914.7	935.5	948.7	958.2	966.7	968.6
15°	829.5	849.4	881.6	912.8	934.5	947.8	953.4	953.4	952.5	953.4	955.3
17.5°	868.3	887.2	919.4	950.6	961.0	953.4	946.8	944.9	944.0	942.1	943.0
20°	906.1	924.1	951.6	975.2	966.7	940.2	931.7	930.7	927.9	926.0	924.1
22.5°	944.0	957.2	979.9	988.4	954.4	916.6	906.1	900.5	896.7	892.0	887.2
25°	987.5	991.3	1008.3	995.1	924.1	873.0	857.9	849.4	845.6	840.9	837.1
27.5°	1028.2	1028.2	1031.0	984.7	879.7	815.3	792.6	777.5	776.6	775.6	774.7
30°	1065.1	1060.3	1050.9	953.4	822.0	744.4	710.4	695.2	700.9	705.6	706.6
32.5°	1108.6	1099.1	1072.6	910.9	752.9	665.0	623.3	616.7	623.3	629.0	625.2
35°	1176.7	1159.6	1095.3	861.7	686.7	592.1	552.4	542.9	541.0	540.1	532.5
37.5°	1274.1	1244.8	1113.3	808.7	621.4	527.8	498.5	478.6	460.6	441.7	438.9
40°	1393.3	1343.1	1125.6	748.2	552.4	473.9	442.7	417.1	386.9	353.8	350.0
42.5°	1523.8	1449.1	1131.3	681.0	491.9	429.4	390.6	358.5	324.4	298.9	294.2
45°	1664.7	1563.5	1126.5	616.7	442.7	391.6	348.1	313.1	285.7	267.7	263.9
47.5°	1801.9	1695.0	1113.3	565.6	404.8	359.4	315.0	282.8	262.0	242.1	237.4
50°	1977.8	1820.8	1097.2	525.9	363.2	327.3	294.2	260.1	236.5	227.0	225.1
52.5°	2172.7	1946.6	1078.3	475.8	322.5	301.7	280.9	250.7	243.1	225.1	222.3
55°	2383.6	2096.1	1074.5	412.4	286.6	283.8	267.7	259.2	261.1	225.1	220.4
57.5°	2605.9	2255.9	1083.0	349.0	257.3	267.7	273.4	266.7	263.9	229.8	220.4
60°	2837.6	2410.1	1057.5	290.4	234.6	254.4	280.0	263.0	242.1	228.0	221.3
62.5°	3062.7	2539.7	946.8	248.8	217.6	250.7	276.2	248.8	225.1	225.1	222.3
65°	3226.4	2597.4	740.6	218.5	206.2	245.9	269.6	239.3	220.4	227.0	223.2
67.5°	3245.3	2537.8	497.5	194.9	196.7	237.4	254.4	230.8	215.7	232.7	227.0
70°	3129.0	2382.7	304.6	176.9	184.4	222.3	241.2	222.3	209.0	228.0	219.4
72.5°	2827.2	2093.2	214.7	161.7	171.2	208.1	228.9	214.7	199.6	206.2	197.7
75°	2319.3	1622.2	170.3	147.6	158.0	194.9	218.5	203.4	188.2	185.4	179.7
77.5°	1643.0	1039.5	137.2	136.2	143.8	178.8	204.3	190.1	175.0	169.3	165.5
80°	944.9	509.8	118.2	123.0	130.5	162.7	187.3	175.0	160.8	152.3	146.6
82.5°	361.3	177.8	104.0	106.9	115.4	145.7	170.3	159.9	145.7	153.2	128.6
85°	117.3	97.4	85.1	88.0	96.5	121.1	150.4	141.9	125.8	111.6	103.1
87.5°	52.0	53.0	45.4	50.1	60.5	80.4	109.7	104.0	91.8	76.6	73.8
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)