

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: P397966

Luminaire Tested: **ARCH-S-PA1-70-722-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-70-722-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7356 lumens
Efficiency: N/A
Efficacy: 99.4 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

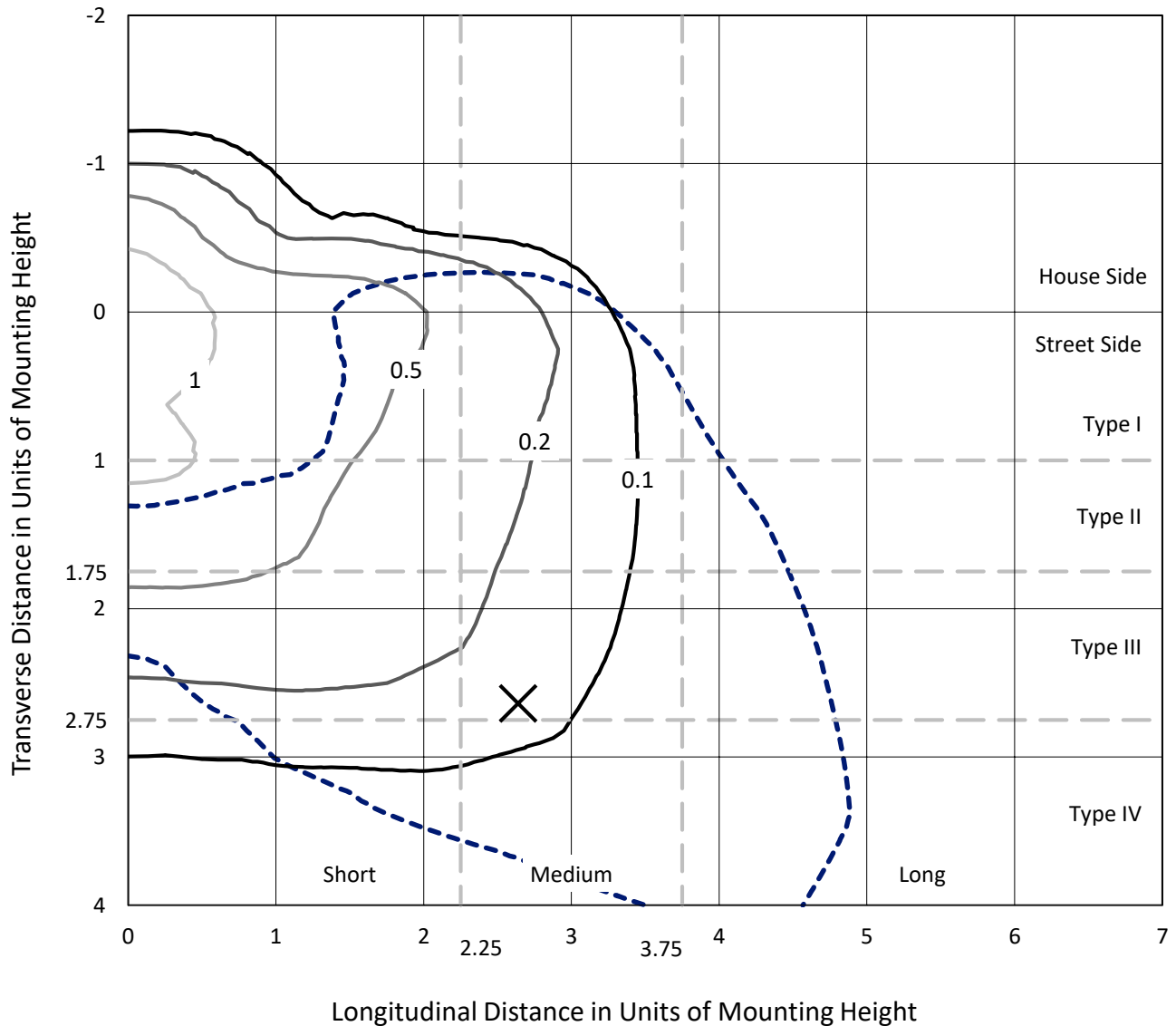
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

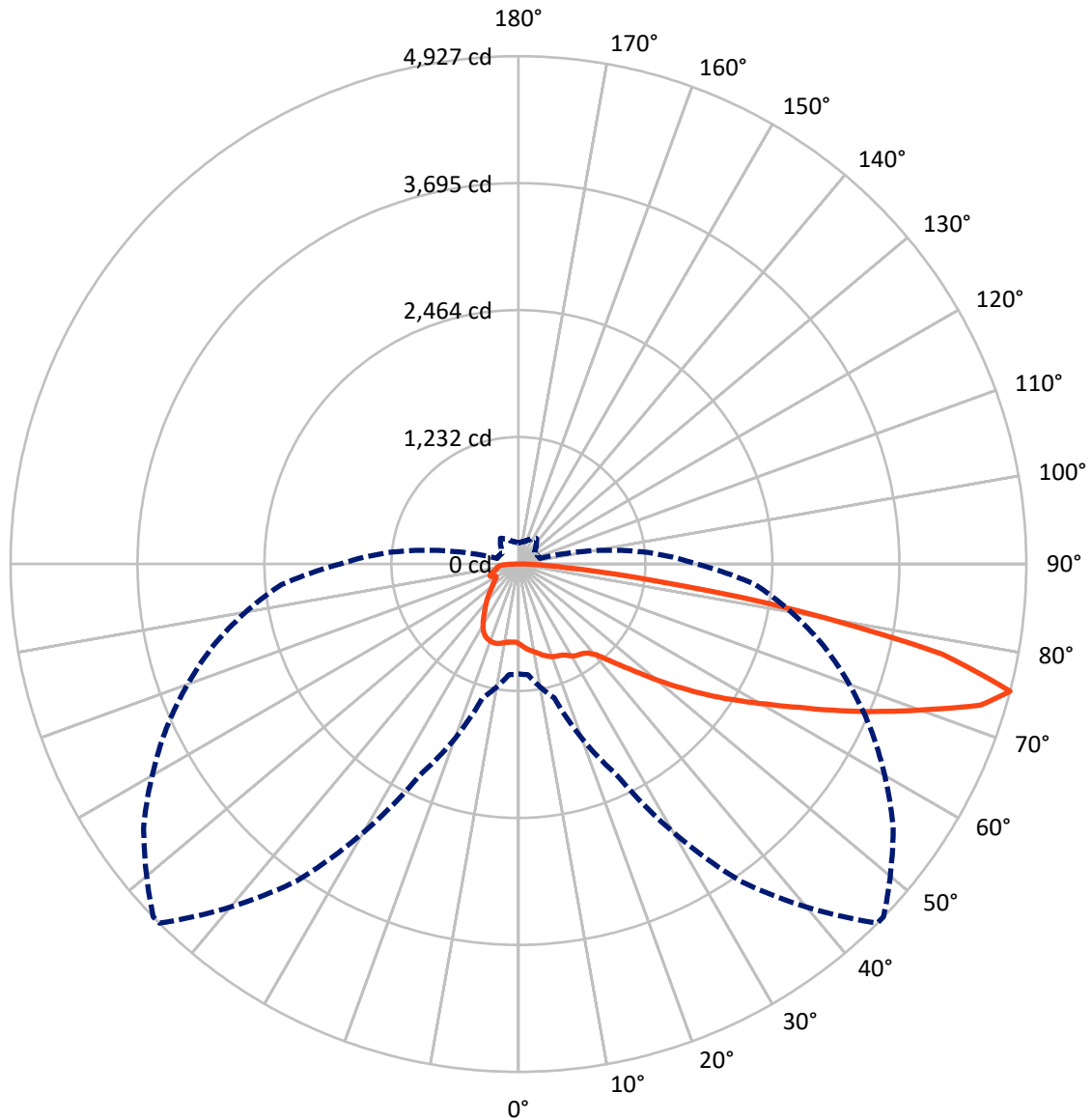


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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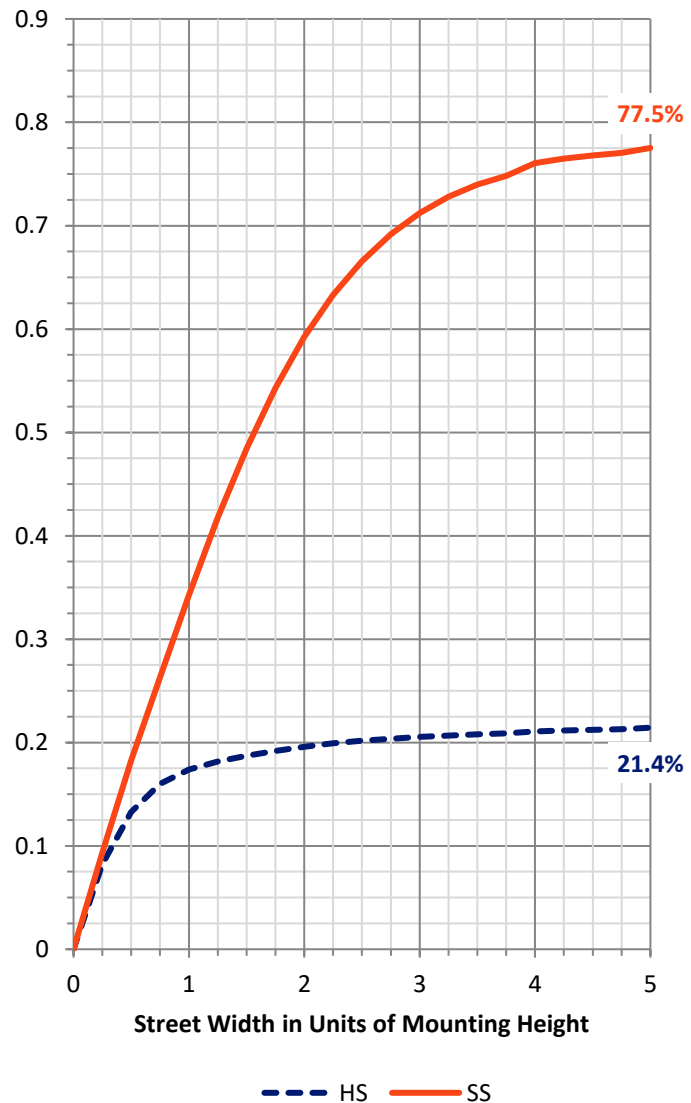
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1625.6	0.0	1625.6
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	5730.4	0.0	5730.4
	% Fixture	77.9	0.0	77.9
Total	Lumens	7356.0	0.0	7356.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	1.0
10°-20°	243.1	3.3
20°-30°	414.5	5.6
30°-40°	580.8	7.9
40°-50°	853.3	11.6
50°-60°	1358.0	18.5
60°-70°	1931.7	26.3
70°-80°	1617.4	22.0
80°-90°	280.7	3.8
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°	7356.0	100.0
0°-180°	7356.0	100.0

Coefficient of Utilization



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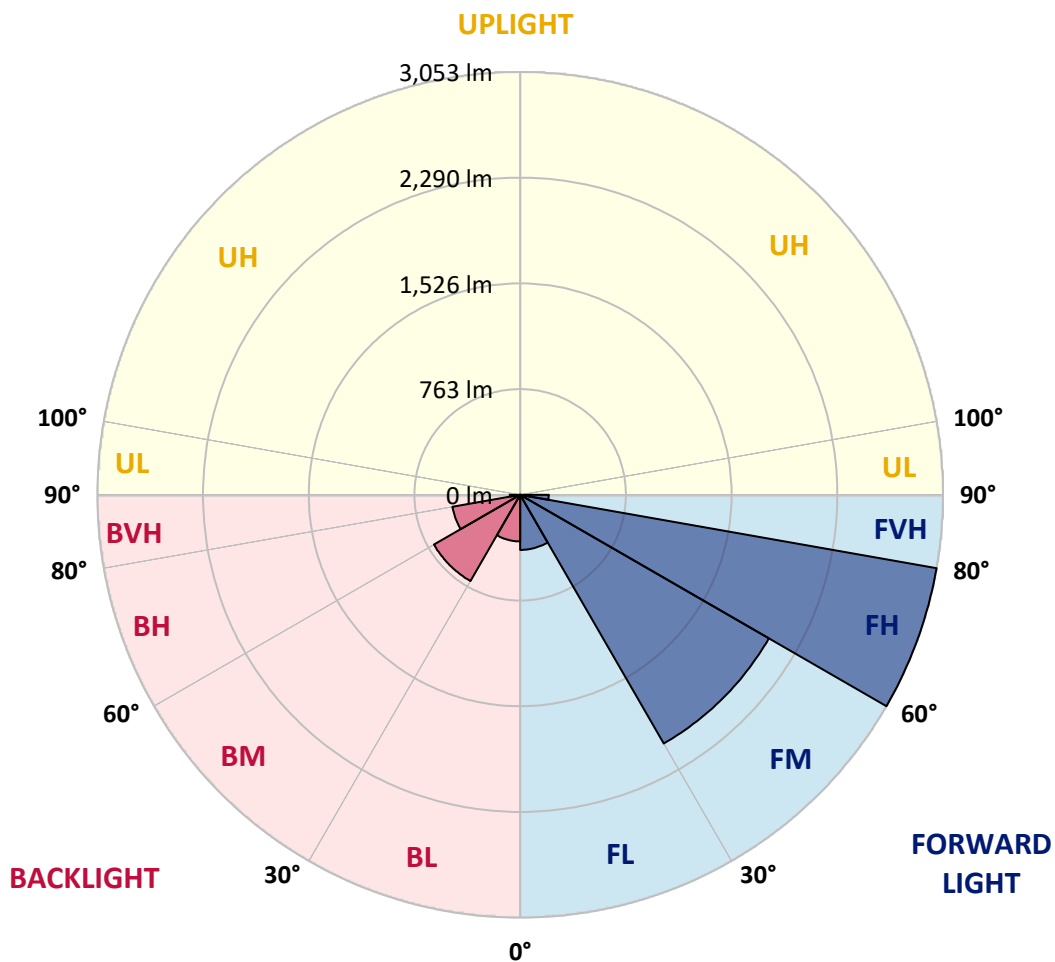
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	397.6	5.4			
FM (30°-60°)	2073.4	28.2			
FH (60°-80°)	3052.9	41.5			G2/5000
FVH (80°-90°)	206.4	2.8			G2/225
BL (0°-30°)	336.4	4.6	B1/500		
BM (30°-60°)	718.6	9.8	B1/1000		
BH (60°-80°)	496.2	6.7	B1/500		G1/500
BVH (80°-90°)	74.3	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	772.5	772.5	772.5	772.5	772.5	772.5	772.5	772.5	772.5	772.5	772.5
2.5°	816.8	812.8	810.9	810.9	803.0	798.1	797.1	790.2	784.3	778.4	773.5
5°	863.9	861.0	855.1	850.2	839.4	825.6	823.7	808.9	794.2	780.4	768.6
7.5°	907.2	901.3	894.4	884.6	866.9	848.2	845.3	824.6	804.0	783.4	767.6
10°	943.6	937.7	927.8	914.1	891.5	868.9	865.9	844.3	822.7	798.1	775.5
12.5°	978.0	973.0	958.3	939.6	913.1	892.5	889.5	870.8	848.2	820.7	791.2
15°	1007.4	1002.5	986.8	965.2	934.7	919.0	915.1	897.4	874.8	845.3	814.8
17.5°	1022.2	1022.2	1005.5	981.9	953.4	941.6	938.6	917.0	896.4	867.9	837.4
20°	1027.1	1029.1	1017.3	988.8	964.2	959.3	956.3	938.6	915.1	887.5	859.0
22.5°	1030.1	1034.0	1024.2	991.7	971.1	968.1	966.2	954.4	935.7	909.2	880.7
25°	1039.9	1039.9	1033.0	996.6	979.9	978.9	978.9	972.1	959.3	936.7	908.2
27.5°	1054.6	1053.6	1044.8	1007.4	999.6	1002.5	1001.6	1000.6	991.7	969.1	938.6
30°	1079.2	1079.2	1069.4	1029.1	1024.2	1036.9	1037.9	1039.9	1026.1	990.7	966.2
32.5°	1116.5	1112.6	1102.8	1050.7	1042.8	1054.6	1056.6	1055.6	1043.8	1010.4	998.6
35°	1231.5	1222.7	1187.3	1098.9	1059.5	1066.4	1067.4	1072.3	1074.3	1047.7	1041.8
37.5°	1433.0	1421.2	1367.2	1212.9	1112.6	1095.9	1094.9	1107.7	1118.5	1094.9	1094.9
40°	1652.2	1642.4	1610.9	1409.4	1210.9	1155.9	1151.9	1163.7	1177.5	1160.8	1165.7
42.5°	1840.9	1848.8	1851.7	1617.8	1358.3	1267.9	1257.1	1240.4	1262.0	1247.3	1266.9
45°	1982.5	1978.5	2032.6	1831.1	1549.0	1408.5	1393.7	1348.5	1376.0	1375.0	1418.3
47.5°	2132.8	2126.0	2148.6	2031.6	1766.2	1580.5	1557.9	1491.0	1532.3	1560.8	1632.6
50°	2275.4	2277.3	2285.2	2189.8	2002.1	1789.8	1761.3	1671.9	1730.8	1790.8	1892.0
52.5°	2461.1	2447.4	2437.5	2374.6	2266.5	2008.0	1989.3	1887.1	1969.7	2040.5	2175.1
55°	2623.3	2614.5	2608.6	2605.6	2487.7	2248.8	2229.2	2123.0	2241.9	2292.1	2490.6
57.5°	2796.3	2791.4	2822.8	2872.9	2825.8	2493.6	2472.9	2370.7	2503.4	2538.8	2832.7
60°	2923.1	2926.0	3012.5	3140.3	3107.9	2758.9	2734.4	2643.9	2758.0	2789.4	3174.7
62.5°	2924.1	2953.5	3154.1	3383.1	3420.4	3064.6	3036.1	2937.8	3019.4	3019.4	3481.3
65°	2644.9	2678.3	3128.5	3443.0	3736.9	3428.3	3400.8	3246.4	3276.9	3235.6	3769.3
67.5°	2366.8	2406.1	2829.7	3447.9	3959.0	3817.5	3785.1	3555.1	3503.0	3398.8	3970.8
70°	2182.0	2209.5	2563.3	3384.0	4092.7	4224.4	4199.8	3848.0	3680.9	3535.4	3928.6
72.5°	1837.0	1827.2	2165.3	3080.3	4167.4	4686.4	4665.7	4166.4	3835.2	3470.5	3350.6
75°	1066.4	1078.2	1343.6	2256.7	3756.6	4927.2	4925.2	4438.7	3767.4	3065.6	2308.8
77.5°	307.6	316.5	441.3	991.7	2375.6	4202.8	4337.4	4059.3	3184.5	2184.9	1197.1
80°	134.7	141.5	191.7	330.2	1023.2	2745.2	2863.1	2745.2	1920.5	1002.5	469.8
82.5°	79.6	84.5	124.8	204.4	490.5	1306.2	1465.5	1279.7	828.6	425.6	194.6
85°	45.2	47.2	71.7	129.7	308.6	457.0	513.1	480.6	404.0	241.8	102.2
87.5°	20.6	21.6	35.4	60.9	173.0	154.3	160.2	212.3	233.9	147.4	51.1
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°	772.5	772.5	772.5	772.5	772.5	772.5	772.5	772.5	772.5	772.5	772.5
2.5°	771.6	768.6	762.7	760.7	757.8	758.8	759.8	759.8	760.7	757.8	757.8
5°	763.7	758.8	752.9	752.9	752.9	760.7	767.6	771.6	773.5	773.5	771.6
7.5°	760.7	754.8	748.0	749.9	751.9	761.7	774.5	787.3	791.2	791.2	789.2
10°	766.6	760.7	755.8	758.8	763.7	771.6	781.4	793.2	803.0	804.0	803.0
12.5°	780.4	773.5	768.6	774.5	780.4	785.3	790.2	795.1	807.9	809.9	809.9
15°	803.0	796.1	790.2	795.1	797.1	797.1	797.1	797.1	809.9	811.9	811.9
17.5°	825.6	819.7	813.8	814.8	808.9	801.0	798.1	797.1	804.0	809.9	810.9
20°	847.2	842.3	836.4	826.6	811.9	797.1	792.2	792.2	796.1	805.0	805.0
22.5°	870.8	864.9	855.1	832.5	807.9	787.3	782.4	785.3	790.2	802.0	801.0
25°	897.4	889.5	872.8	830.5	795.1	770.6	771.6	780.4	789.2	802.0	802.0
27.5°	926.9	916.0	882.6	814.8	766.6	743.1	751.9	772.5	785.3	799.1	801.0
30°	959.3	949.5	890.5	787.3	720.4	698.8	720.4	753.9	773.5	786.3	789.2
32.5°	998.6	990.7	897.4	751.9	660.5	641.8	673.3	714.6	746.0	760.7	763.7
35°	1047.7	1039.9	906.2	711.6	604.5	584.8	613.3	655.6	696.9	715.5	721.4
37.5°	1111.6	1099.8	914.1	668.4	557.3	534.7	548.4	586.8	624.1	649.7	656.6
40°	1193.2	1174.5	921.0	619.2	516.0	490.5	495.4	514.0	535.7	558.3	567.1
42.5°	1308.2	1270.9	921.9	567.1	473.7	450.2	448.2	454.1	454.1	454.1	457.0
45°	1468.4	1397.7	923.9	518.0	430.5	405.9	400.0	398.1	383.3	354.8	352.9
47.5°	1670.9	1563.8	932.7	476.7	385.3	363.7	355.8	347.9	320.4	290.9	285.0
50°	1930.4	1756.4	950.4	437.4	347.0	332.2	322.4	303.7	273.2	250.6	244.7
52.5°	2229.2	1985.4	967.2	396.1	318.5	308.6	296.8	274.2	241.8	228.0	226.1
55°	2572.2	2241.0	1000.6	359.7	293.9	287.0	276.2	254.6	230.0	220.2	219.2
57.5°	2923.1	2527.0	1047.7	327.3	270.3	266.4	266.4	247.7	232.0	228.0	228.0
60°	3261.2	2772.7	1011.4	296.8	248.7	250.6	269.3	264.4	252.6	257.5	260.5
62.5°	3523.6	2917.2	820.7	272.3	232.9	250.6	298.8	298.8	285.0	283.1	283.1
65°	3635.7	2915.2	576.9	253.6	227.0	275.2	333.2	317.5	281.1	267.3	264.4
67.5°	3607.2	2787.4	398.1	240.8	225.1	300.8	348.9	304.7	263.4	251.6	242.8
70°	3356.5	2517.1	306.7	229.0	222.1	289.9	344.0	289.9	249.7	238.8	231.0
72.5°	2707.8	2018.8	254.6	217.2	210.3	268.3	327.3	276.2	238.8	227.0	219.2
75°	1726.9	1269.9	215.2	201.5	187.7	240.8	304.7	262.4	227.0	211.3	205.4
77.5°	830.5	547.5	187.7	182.8	169.1	223.1	282.1	244.7	211.3	198.5	194.6
80°	336.1	250.6	163.2	164.1	155.3	212.3	266.4	228.0	195.6	181.8	175.0
82.5°	175.0	145.5	137.6	141.5	141.5	202.5	254.6	214.3	181.8	175.9	153.3
85°	94.4	90.4	106.2	114.0	122.9	182.8	236.9	199.5	166.1	142.5	137.6
87.5°	46.2	59.0	60.0	68.8	85.5	146.4	199.5	167.1	138.6	115.0	113.0
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)