

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: P397919

Luminaire Tested: **ARCH-S-PA1-60-740-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397919
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-PA1-60-740-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9033 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 64
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

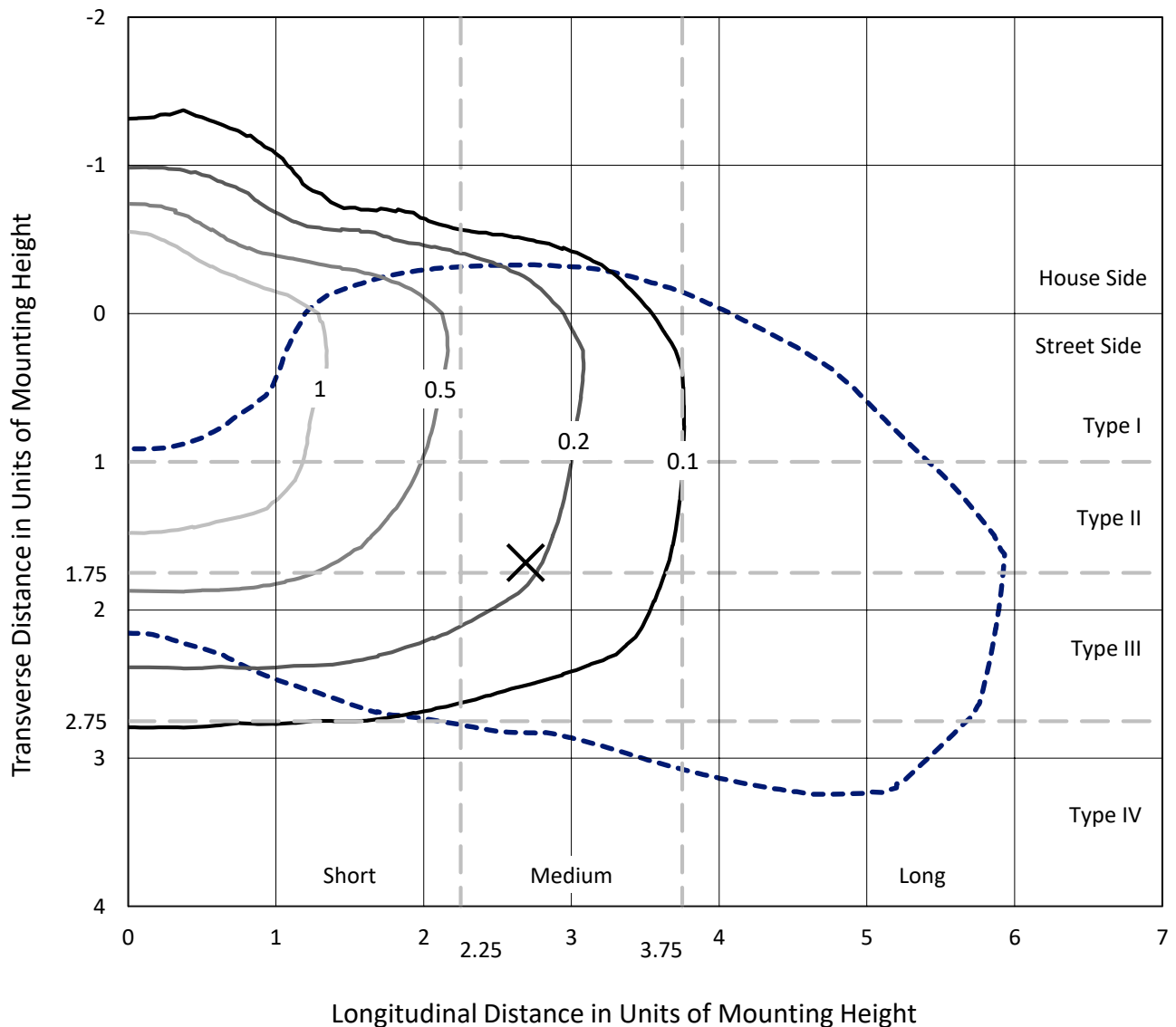


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

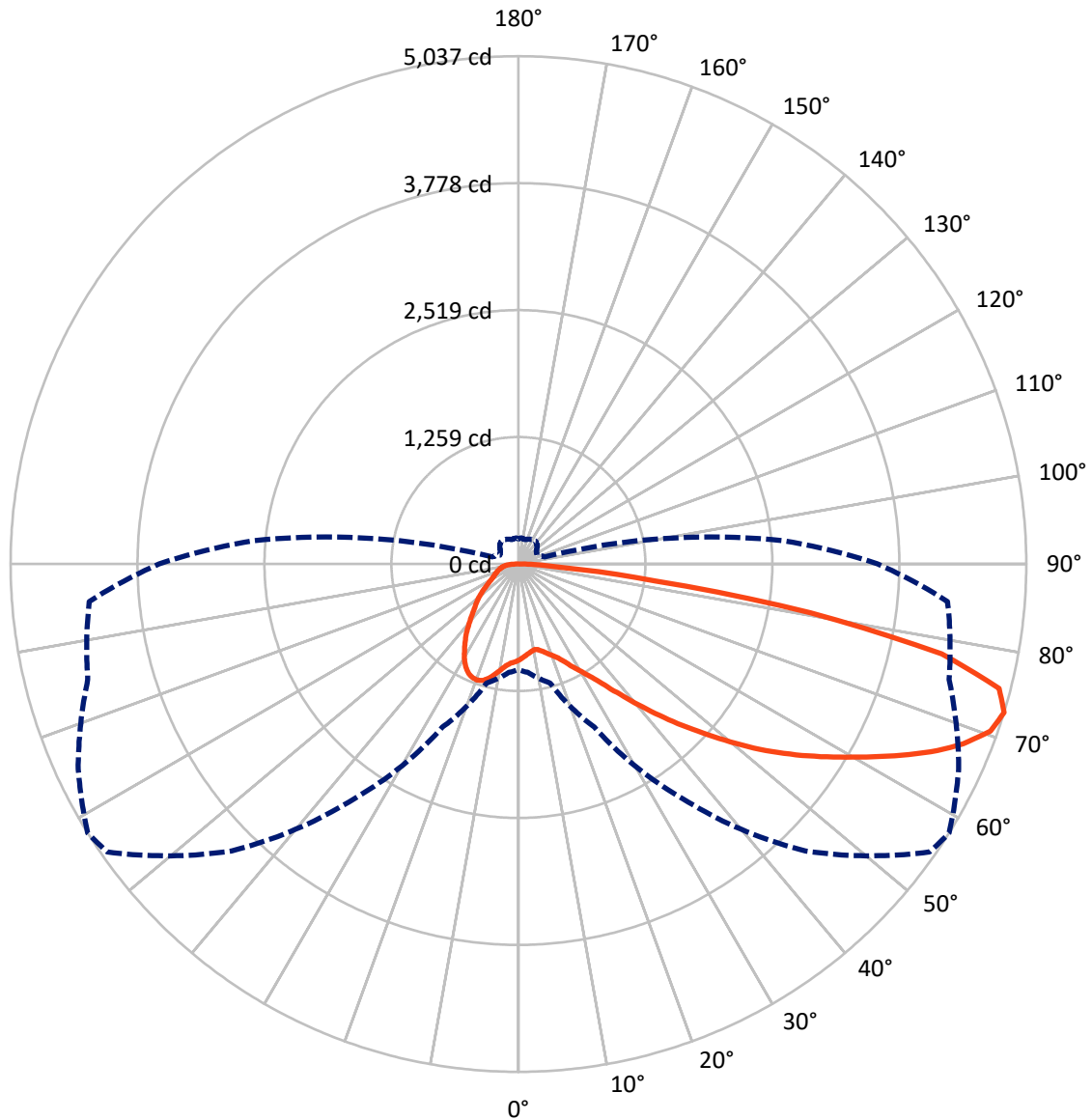


Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Medium - Non-Cutoff

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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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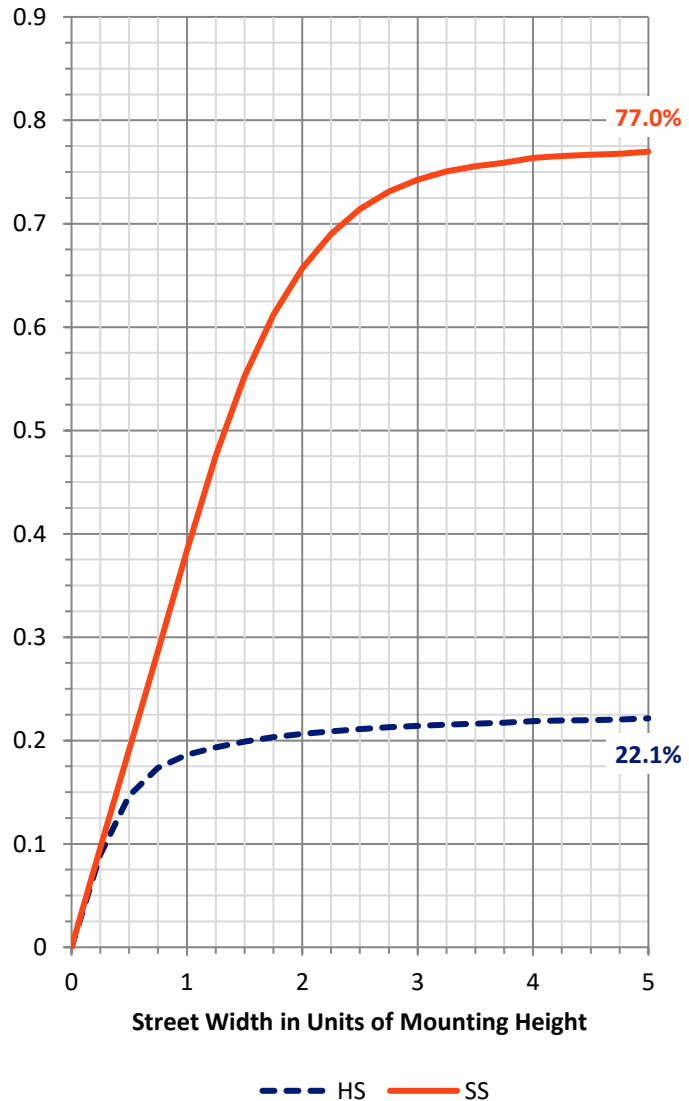
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2048.6	0.0	2048.6
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	6984.4	0.0	6984.4
	% Fixture	77.3	0.0	77.3
Total	Lumens	9033.0	0.0	9033.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	1.0
10°-20°	291.5	3.2
20°-30°	522.1	5.8
30°-40°	785.4	8.7
40°-50°	1271.9	14.1
50°-60°	1914.6	21.2
60°-70°	2253.3	24.9
70°-80°	1597.8	17.7
80°-90°	304.5	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°	9033.0	100.0
0°-180°	9033.0	100.0

Coefficient of Utilization



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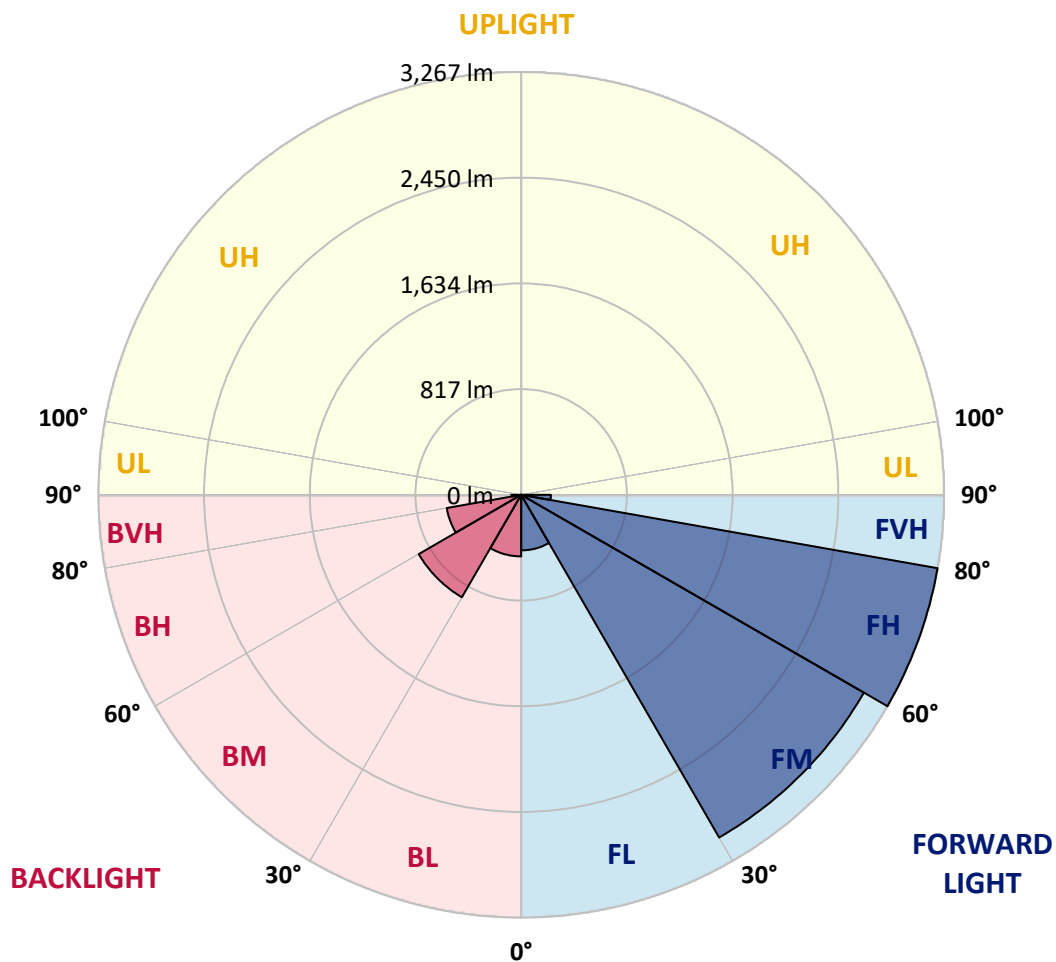
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	429.6	4.8			
FM	(30°-60°)	3057.9	33.9			
FH	(60°-80°)	3267.3	36.2			G2/5000
FVH	(80°-90°)	229.7	2.5			G3/500
BL	(0°-30°)	475.8	5.3	B1/500		
BM	(30°-60°)	914.1	10.1	B1/1000		
BH	(60°-80°)	583.9	6.5	B2/1000		G2/1000
BVH	(80°-90°)	74.8	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8
2.5°	917.0	912.2	913.4	913.4	918.2	920.6	921.8	925.4	927.7	933.7	942.1
5°	874.1	870.5	871.7	872.9	881.2	889.6	896.7	901.5	908.7	918.2	930.1
7.5°	843.1	840.7	841.9	844.3	851.4	861.0	872.9	880.0	890.8	908.7	928.9
10°	820.4	820.4	821.6	826.4	833.5	845.5	855.0	863.4	884.8	917.0	948.0
12.5°	802.5	802.5	806.1	815.7	827.6	839.5	862.2	871.7	900.3	944.4	981.4
15°	801.3	802.5	803.7	812.1	825.2	851.4	884.8	899.1	933.7	986.2	1029.1
17.5°	820.4	821.6	816.8	819.2	834.7	871.7	915.8	932.5	976.6	1033.9	1078.0
20°	878.9	878.9	864.5	851.4	862.2	902.7	952.8	969.5	1018.4	1081.6	1125.7
22.5°	998.1	1004.1	970.7	942.1	925.4	948.0	993.3	1011.2	1066.1	1134.0	1178.2
25°	1142.4	1148.4	1103.0	1062.5	1031.5	1027.9	1057.7	1076.8	1122.1	1192.5	1229.4
27.5°	1281.9	1271.2	1229.4	1191.3	1151.9	1119.7	1142.4	1159.1	1211.6	1265.2	1287.9
30°	1391.6	1383.3	1342.7	1315.3	1278.3	1236.6	1223.5	1241.4	1284.3	1334.4	1346.3
32.5°	1513.3	1507.3	1466.7	1431.0	1400.0	1360.6	1332.0	1340.3	1364.2	1400.0	1407.1
35°	1668.3	1681.4	1638.5	1565.7	1531.1	1493.0	1472.7	1475.1	1493.0	1515.6	1503.7
37.5°	1831.6	1847.1	1849.5	1735.1	1688.5	1654.0	1632.5	1640.8	1662.3	1677.8	1640.8
40°	2134.5	2119.0	2057.0	1972.4	1900.8	1867.4	1837.6	1836.4	1851.9	1879.3	1812.6
42.5°	2536.4	2522.1	2396.9	2287.2	2173.9	2135.7	2077.3	2052.3	2059.4	2094.0	2001.0
45°	2921.6	2915.6	2815.4	2687.8	2551.9	2478.0	2344.4	2283.6	2277.6	2305.1	2194.2
47.5°	3263.8	3237.6	3164.8	3065.9	3051.5	2858.4	2612.7	2530.4	2501.8	2517.3	2393.3
50°	3629.9	3540.5	3440.3	3379.5	3483.2	3303.2	2883.4	2797.6	2727.2	2737.9	2609.1
52.5°	3824.3	3674.0	3608.4	3626.3	3765.8	3696.7	3178.0	3073.0	2959.7	2975.2	2823.8
55°	3657.3	3656.1	3684.8	3795.7	3990.0	3910.1	3458.2	3340.1	3216.1	3219.7	3070.6
57.5°	3428.4	3474.9	3622.7	3867.2	4267.9	4134.3	3733.6	3608.4	3495.2	3477.3	3350.9
60°	3219.7	3271.0	3485.6	3855.3	4364.5	4339.4	3996.0	3886.3	3794.5	3742.0	3645.4
62.5°	2902.5	2940.6	3244.7	3779.0	4283.4	4487.3	4261.9	4186.8	4117.6	4009.1	3962.6
65°	2529.2	2542.4	2863.1	3527.3	4182.0	4544.5	4526.6	4493.3	4426.5	4266.7	4276.2
67.5°	2125.0	2151.2	2432.7	3125.5	3960.2	4518.3	4731.8	4759.2	4680.5	4440.8	4476.6
70°	1694.5	1726.7	1940.2	2569.8	3583.4	4405.0	4921.4	4965.5	4814.0	4498.0	4513.5
72.5°	1048.2	1079.2	1222.3	1785.1	2840.5	4024.6	4979.8	5037.0	4817.6	4421.7	4272.6
75°	362.5	366.1	478.2	856.2	1686.2	3038.4	4789.0	4923.7	4666.2	4143.9	3718.1
77.5°	165.8	171.7	212.3	353.0	747.7	1639.7	3954.3	4291.7	4205.9	3709.8	2861.9
80°	114.5	116.9	146.7	211.1	431.7	577.2	2495.9	2935.9	3086.1	2872.7	1834.0
82.5°	85.9	88.2	113.3	143.1	311.2	280.2	950.4	1364.2	1695.7	1664.7	766.8
85°	82.3	81.1	88.2	95.4	207.5	166.9	307.7	422.1	661.8	566.4	193.2
87.5°	35.8	39.4	90.6	53.7	108.5	77.5	133.6	156.2	201.5	175.3	69.2
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°	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8
2.5°	945.6	948.0	955.2	965.9	971.9	983.8	992.1	996.9	1000.5	1001.7	1001.7
5°	937.3	942.1	957.6	975.4	992.1	1017.2	1039.8	1053.0	1062.5	1066.1	1067.3
7.5°	939.7	951.6	974.3	1000.5	1022.0	1054.2	1081.6	1107.8	1129.3	1137.6	1137.6
10°	962.3	979.0	1010.0	1044.6	1072.0	1105.4	1134.0	1156.7	1181.7	1196.1	1198.4
12.5°	996.9	1017.2	1057.7	1095.9	1126.9	1153.1	1179.4	1196.1	1208.0	1218.7	1221.1
15°	1045.8	1070.8	1111.4	1150.7	1178.2	1194.9	1202.0	1202.0	1200.8	1202.0	1204.4
17.5°	1094.7	1118.5	1159.1	1198.4	1211.6	1202.0	1193.7	1191.3	1190.1	1187.7	1188.9
20°	1142.4	1165.1	1199.6	1229.4	1218.7	1185.3	1174.6	1173.4	1169.8	1167.4	1165.1
22.5°	1190.1	1206.8	1235.4	1246.1	1203.2	1155.5	1142.4	1135.2	1130.5	1124.5	1118.5
25°	1244.9	1249.7	1271.2	1254.5	1165.1	1100.7	1081.6	1070.8	1066.1	1060.1	1055.3
27.5°	1296.2	1296.2	1299.8	1241.4	1109.0	1027.9	999.3	980.2	979.0	977.8	976.6
30°	1342.7	1336.8	1324.8	1202.0	1036.3	938.5	895.6	876.5	883.6	889.6	890.8
32.5°	1397.6	1385.7	1352.3	1148.4	949.2	838.3	785.8	777.5	785.8	793.0	788.2
35°	1483.4	1462.0	1380.9	1086.3	865.7	746.5	696.4	684.5	682.1	680.9	671.4
37.5°	1606.3	1569.3	1403.5	1019.6	783.5	665.4	628.4	603.4	580.7	556.9	553.3
40°	1756.5	1693.3	1419.0	943.2	696.4	597.4	558.1	525.9	487.7	446.0	441.2
42.5°	1921.1	1826.9	1426.2	858.6	620.1	541.4	492.5	451.9	409.0	376.8	370.9
45°	2098.8	1971.2	1420.2	777.5	558.1	493.7	438.8	394.7	360.1	337.5	332.7
47.5°	2271.7	2136.9	1403.5	713.1	510.4	453.1	397.1	356.6	330.3	305.3	299.3
50°	2493.5	2295.5	1383.3	663.0	457.9	412.6	370.9	327.9	298.1	286.2	283.8
52.5°	2739.1	2454.1	1359.4	599.8	406.6	380.4	354.2	316.0	306.5	283.8	280.2
55°	3005.0	2642.5	1354.7	519.9	361.3	357.7	337.5	326.7	329.1	283.8	277.8
57.5°	3285.3	2844.1	1365.4	440.0	324.4	337.5	344.6	336.3	332.7	289.8	277.8
60°	3577.4	3038.4	1333.2	366.1	295.7	320.8	353.0	331.5	305.3	287.4	279.0
62.5°	3861.2	3201.8	1193.7	313.6	274.3	316.0	348.2	313.6	283.8	283.8	280.2
65°	4067.5	3274.5	933.7	275.5	260.0	310.0	339.9	301.7	277.8	286.2	281.4
67.5°	4091.4	3199.4	627.2	245.7	248.0	299.3	320.8	291.0	271.9	293.3	286.2
70°	3944.7	3003.9	384.0	223.0	232.5	280.2	304.1	280.2	263.5	287.4	276.7
72.5°	3564.3	2639.0	270.7	203.9	215.8	262.3	288.6	270.7	251.6	260.0	249.2
75°	2924.0	2045.1	214.6	186.0	199.1	245.7	275.5	256.4	237.3	233.7	226.6
77.5°	2071.3	1310.5	172.9	171.7	181.3	225.4	257.6	239.7	220.6	213.5	208.7
80°	1191.3	642.7	149.1	155.0	164.6	205.1	236.1	220.6	202.7	192.0	184.8
82.5°	455.5	224.2	131.2	134.7	145.5	183.6	214.6	201.5	183.6	193.2	162.2
85°	147.9	122.8	107.3	110.9	121.6	152.6	189.6	178.9	158.6	140.7	130.0
87.5°	65.6	66.8	57.2	63.2	76.3	101.4	138.3	131.2	115.7	96.6	93.0
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)