

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: P573171

Luminaire Tested: **ARCH-S-PA2-40-750-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-40-750-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 420mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6700 lumens
Efficiency: N/A
Efficacy: 154.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

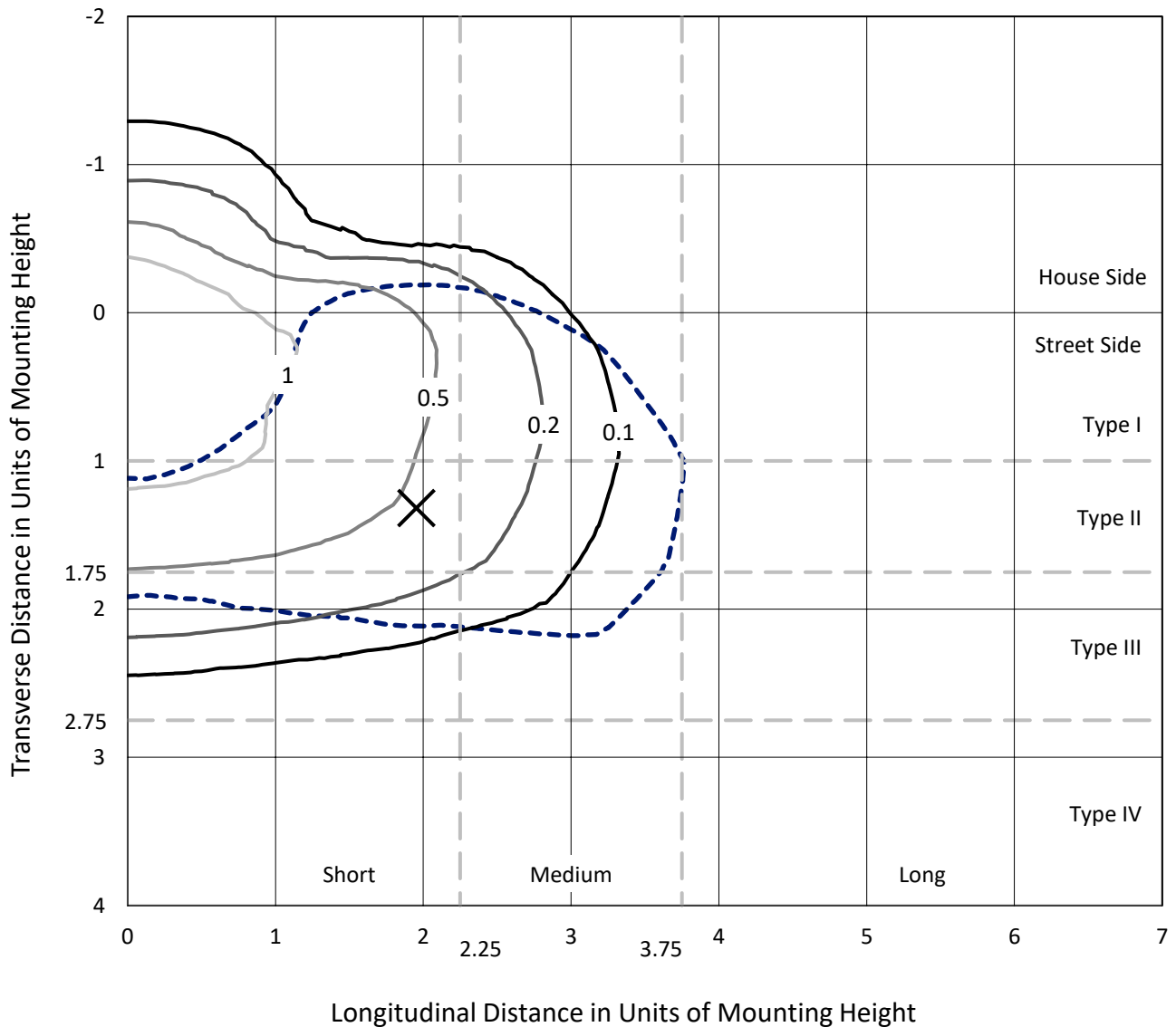
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

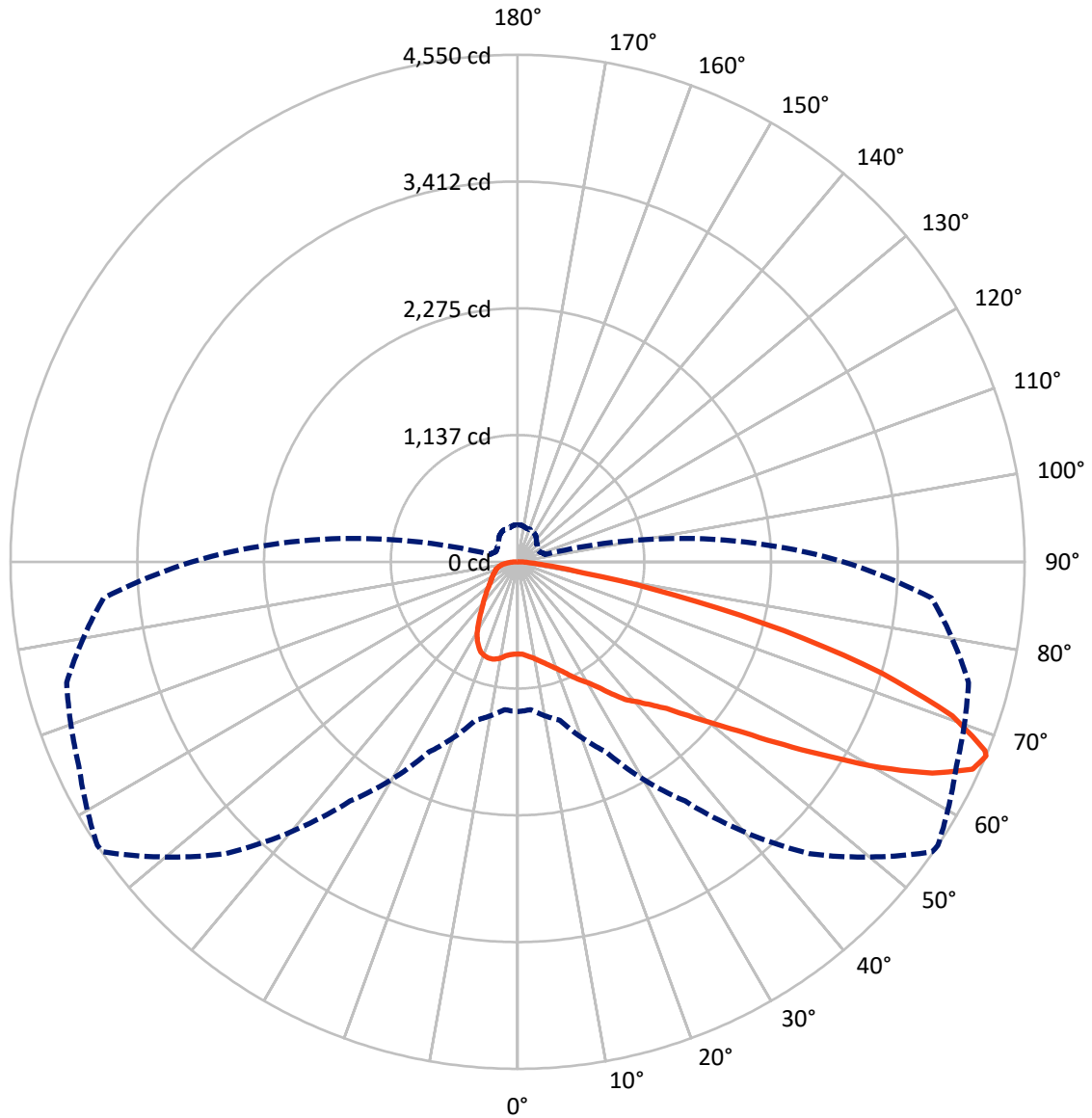
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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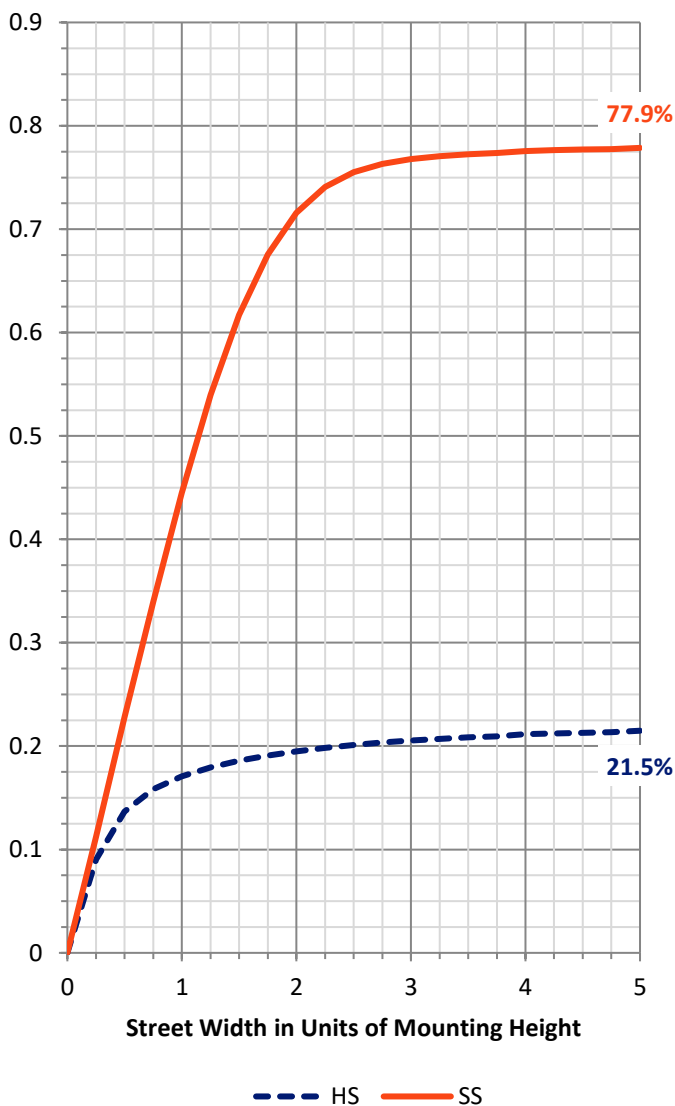
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1465.8	0.0	1465.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	5234.2	0.0	5234.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	6700.0	0.0	6700.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	1.2
10°-20°	261.0	3.9
20°-30°	454.2	6.8
30°-40°	666.0	9.9
40°-50°	974.4	14.5
50°-60°	1522.9	22.7
60°-70°	1810.0	27.0
70°-80°	824.4	12.3
80°-90°	105.7	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°	6700.0	100.0
0°-180°	6700.0	100.0

Coefficient of Utilization

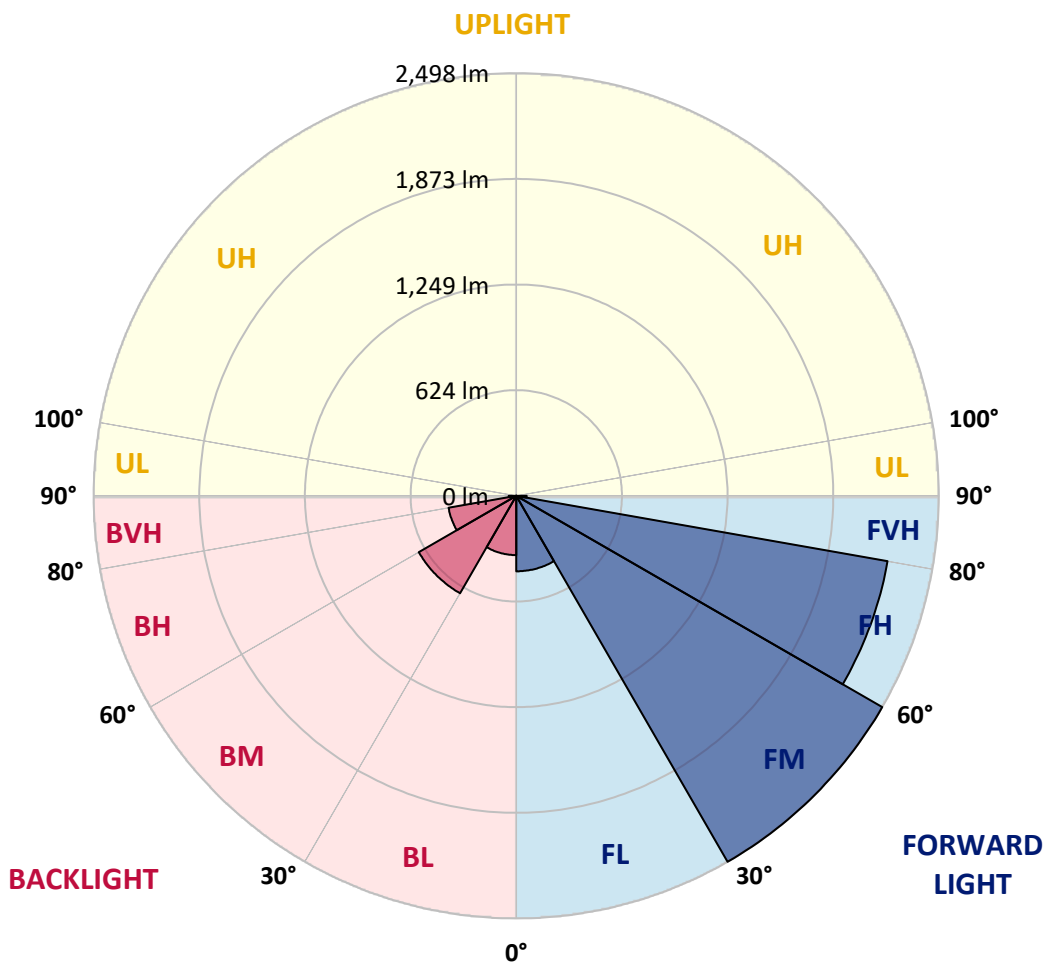


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	446.3	6.7			
FM (30°-60°)	2497.9	37.3			
FH (60°-80°)	2228.3	33.3			G2/5000
FVH (80°-90°)	61.6	0.9			G1/100
BL (0°-30°)	350.3	5.2	B1/500		
BM (30°-60°)	665.4	9.9	B1/1000		
BH (60°-80°)	406.1	6.1	B1/500		G1/500
BVH (80°-90°)	44.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2
2.5°	839.9	836.3	834.4	836.3	834.4	830.8	832.6	830.8	829.0	827.2	827.2
5°	850.8	847.1	845.3	847.1	849.0	845.3	845.3	845.3	839.9	838.1	834.4
7.5°	858.0	852.6	852.6	856.2	859.8	861.7	865.3	863.5	858.0	854.4	847.1
10°	881.6	874.4	874.4	874.4	878.0	881.6	885.2	887.0	885.2	883.4	878.0
12.5°	917.9	910.6	910.6	910.6	910.6	908.8	914.3	916.1	919.7	919.7	910.6
15°	966.9	957.8	954.2	946.9	945.1	941.5	948.7	948.7	954.2	956.0	946.9
17.5°	1014.0	1003.1	999.5	992.3	985.0	975.9	983.2	985.0	995.9	997.7	983.2
20°	1063.0	1059.4	1053.9	1043.1	1030.4	1021.3	1028.5	1026.7	1035.8	1039.4	1021.3
22.5°	1126.5	1117.4	1113.8	1099.3	1084.8	1075.7	1075.7	1079.3	1088.4	1088.4	1061.2
25°	1202.7	1190.0	1180.9	1164.6	1146.5	1135.6	1137.4	1141.0	1153.7	1144.6	1102.9
27.5°	1297.0	1284.3	1271.6	1239.0	1220.8	1199.1	1197.2	1200.9	1220.8	1197.2	1142.8
30°	1385.9	1380.5	1369.6	1344.2	1315.2	1278.9	1262.5	1264.4	1278.9	1246.2	1177.3
32.5°	1462.1	1454.8	1449.4	1431.3	1411.3	1367.8	1346.0	1347.8	1346.0	1306.1	1219.0
35°	1552.8	1541.9	1538.3	1522.0	1496.6	1467.5	1458.5	1454.8	1444.0	1389.5	1273.4
37.5°	1639.9	1629.0	1623.5	1614.5	1594.5	1569.1	1569.1	1567.3	1545.5	1469.3	1327.9
40°	1743.3	1730.6	1714.2	1708.8	1692.5	1674.3	1659.8	1650.7	1612.7	1543.7	1433.1
42.5°	1868.4	1861.2	1852.1	1828.5	1803.1	1799.5	1757.8	1754.1	1726.9	1687.0	1581.8
45°	2048.0	2033.5	2020.8	2013.5	1982.7	1950.1	1892.0	1877.5	1877.5	1868.4	1756.0
47.5°	2229.4	2204.0	2222.2	2216.7	2209.5	2173.2	2060.7	2062.5	2058.9	2082.5	2011.7
50°	2351.0	2336.4	2387.2	2410.8	2461.6	2461.6	2300.2	2280.2	2294.7	2363.7	2273.0
52.5°	2445.3	2436.2	2494.3	2586.8	2737.3	2751.8	2585.0	2543.2	2563.2	2661.1	2624.9
55°	2521.5	2512.4	2579.5	2741.0	2982.2	3071.1	2913.3	2895.2	2855.2	2960.5	2971.3
57.5°	2566.8	2546.9	2648.5	2864.3	3181.8	3386.8	3297.9	3292.4	3199.9	3297.9	3346.8
60°	2497.9	2485.2	2624.9	2915.1	3343.2	3684.2	3749.6	3749.6	3584.5	3637.1	3696.9
62.5°	2274.8	2258.4	2405.4	2797.2	3363.2	3927.3	4197.6	4175.8	3954.5	3952.7	3900.1
65°	1850.3	1830.3	1995.4	2409.0	3111.0	3956.4	4500.6	4487.9	4232.1	4159.5	3912.8
67°	1344.2	1331.5	1473.0	1882.9	2621.2	3704.2	4538.6	4549.5	4342.7	4188.5	3729.6
67.5°	1206.3	1204.5	1322.4	1728.7	2477.9	3611.7	4513.3	4524.1	4340.9	4165.0	3657.0
70°	562.3	587.7	698.4	990.4	1670.7	2844.4	4096.0	4137.8	4108.7	3892.9	3080.2
72.5°	261.2	272.1	321.1	478.9	897.9	1834.0	3319.6	3419.4	3546.4	3339.6	2439.8
75°	161.4	165.1	192.3	248.5	422.7	881.6	2363.7	2472.5	2664.8	2512.4	1560.0
77.5°	127.0	128.8	146.9	177.8	246.7	379.1	1297.0	1433.1	1683.4	1485.7	785.5
80°	94.3	98.0	112.5	137.9	174.1	194.1	551.5	602.3	812.7	622.2	326.5
82.5°	68.9	72.6	87.1	99.8	121.5	123.4	224.9	237.6	348.3	252.1	141.5
85°	58.0	58.0	67.1	74.4	81.6	68.9	110.7	108.8	134.2	114.3	56.2
87.5°	27.2	29.0	63.5	47.2	39.9	29.0	32.7	34.5	41.7	45.4	21.8
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°	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2
2.5°	825.4	825.4	825.4	827.2	829.0	829.0	830.8	830.8	832.6	834.4	838.1
5°	832.6	832.6	830.8	832.6	836.3	838.1	841.7	845.3	849.0	852.6	854.4
7.5°	847.1	845.3	845.3	845.3	849.0	852.6	858.0	861.7	867.1	868.9	872.5
10°	874.4	870.7	870.7	872.5	874.4	868.9	867.1	865.3	870.7	874.4	878.0
12.5°	907.0	903.4	901.6	896.1	888.9	878.0	868.9	861.7	863.5	867.1	872.5
15°	941.5	934.2	930.6	917.9	899.7	876.2	861.7	852.6	852.6	852.6	858.0
17.5°	977.8	970.5	956.0	932.4	897.9	865.3	847.1	830.8	823.6	821.7	825.4
20°	1012.2	1001.3	977.8	941.5	887.0	843.5	819.9	792.7	781.8	774.6	778.2
22.5°	1044.9	1030.4	997.7	941.5	868.9	810.9	769.1	732.9	714.7	711.1	712.9
25°	1079.3	1061.2	1017.7	930.6	829.0	761.9	703.8	665.7	642.2	638.5	644.0
27.5°	1113.8	1086.6	1034.0	901.6	783.7	694.8	633.1	596.8	584.1	576.9	578.7
30°	1142.8	1117.4	1050.3	861.7	722.0	616.8	560.5	544.2	535.1	531.5	531.5
32.5°	1180.9	1157.3	1061.2	814.5	649.4	546.0	509.7	497.0	489.8	480.7	482.5
35°	1228.1	1206.3	1055.8	754.6	580.5	498.9	469.8	451.7	435.4	422.7	420.8
37.5°	1291.6	1275.2	1028.5	682.1	517.0	464.4	435.4	411.8	388.2	368.2	364.6
40°	1396.8	1358.7	988.6	602.3	473.5	437.2	402.7	373.7	344.7	322.9	317.5
42.5°	1531.0	1451.2	934.2	520.6	437.2	408.2	373.7	335.6	308.4	288.4	288.4
45°	1687.0	1551.0	868.9	458.9	399.1	379.1	337.4	304.8	288.4	275.7	273.9
47.5°	1872.1	1650.7	785.5	410.0	368.2	353.7	312.0	292.1	281.2	270.3	268.5
50°	2120.6	1785.0	723.8	368.2	337.4	324.7	304.8	288.4	277.5	270.3	268.5
52.5°	2405.4	1957.3	680.3	335.6	312.0	306.6	302.9	290.2	279.4	273.9	272.1
55°	2713.8	2169.6	638.5	308.4	292.1	299.3	306.6	293.9	286.6	279.4	275.7
57.5°	3004.0	2349.1	571.4	284.8	277.5	290.2	304.8	295.7	286.6	281.2	279.4
60°	3201.7	2439.8	478.9	263.0	263.0	277.5	299.3	286.6	277.5	279.4	279.4
62.5°	3265.2	2405.4	379.1	243.1	248.5	263.0	283.0	275.7	272.1	281.2	281.2
65°	3170.9	2265.7	302.9	226.8	234.0	244.9	273.9	281.2	292.1	312.0	313.8
67°	2924.2	2040.8	255.8	214.1	221.3	239.4	284.8	310.2	310.2	332.0	332.0
67.5°	2851.6	1964.6	248.5	210.4	219.5	239.4	290.2	317.5	310.2	335.6	335.6
70°	2318.3	1545.5	210.4	199.5	212.2	252.1	313.8	319.3	302.9	326.5	324.7
72.5°	1719.7	1117.4	192.3	188.7	197.7	237.6	312.0	306.6	283.0	290.2	284.8
75°	1063.0	647.6	177.8	174.1	179.6	210.4	288.4	279.4	252.1	246.7	241.3
77.5°	513.4	328.3	152.4	157.8	163.3	183.2	254.0	244.9	221.3	208.6	206.8
80°	223.1	168.7	130.6	139.7	141.5	156.0	210.4	199.5	177.8	157.8	157.8
82.5°	110.7	94.3	103.4	116.1	112.5	125.2	165.1	146.9	130.6	108.8	105.2
85°	50.8	54.4	76.2	87.1	76.2	78.0	112.5	103.4	81.6	61.7	63.5
87.5°	18.1	25.4	43.5	52.6	38.1	36.3	59.9	43.5	25.4	7.3	9.1
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)