

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: P397944

Luminaire Tested: **ARCH-S-PA1-60-827-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-60-827-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6654 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

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

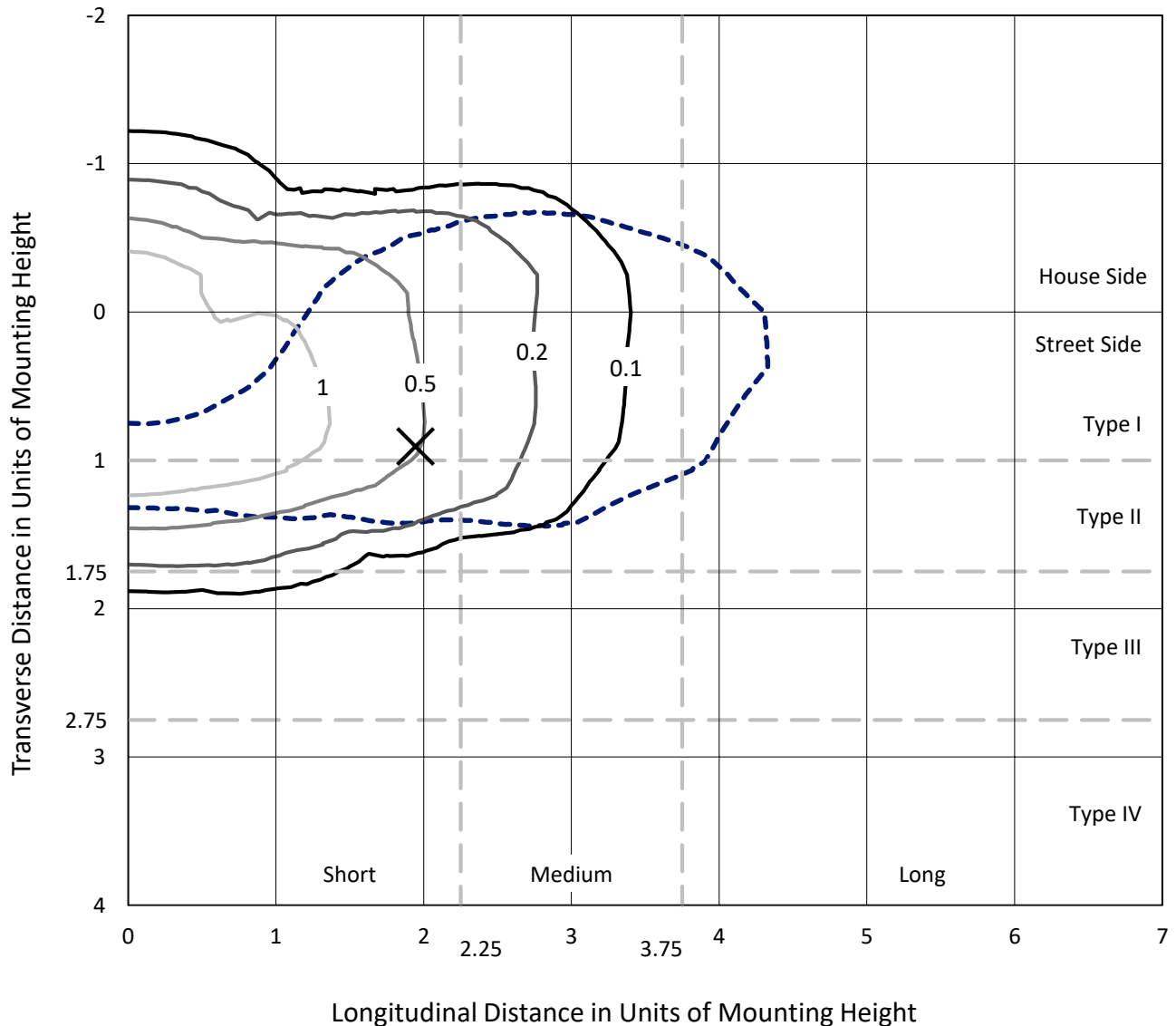


REPORT NUMBER: P397944

CATALOG NUMBER: ARCH-S-PA1-60-827-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

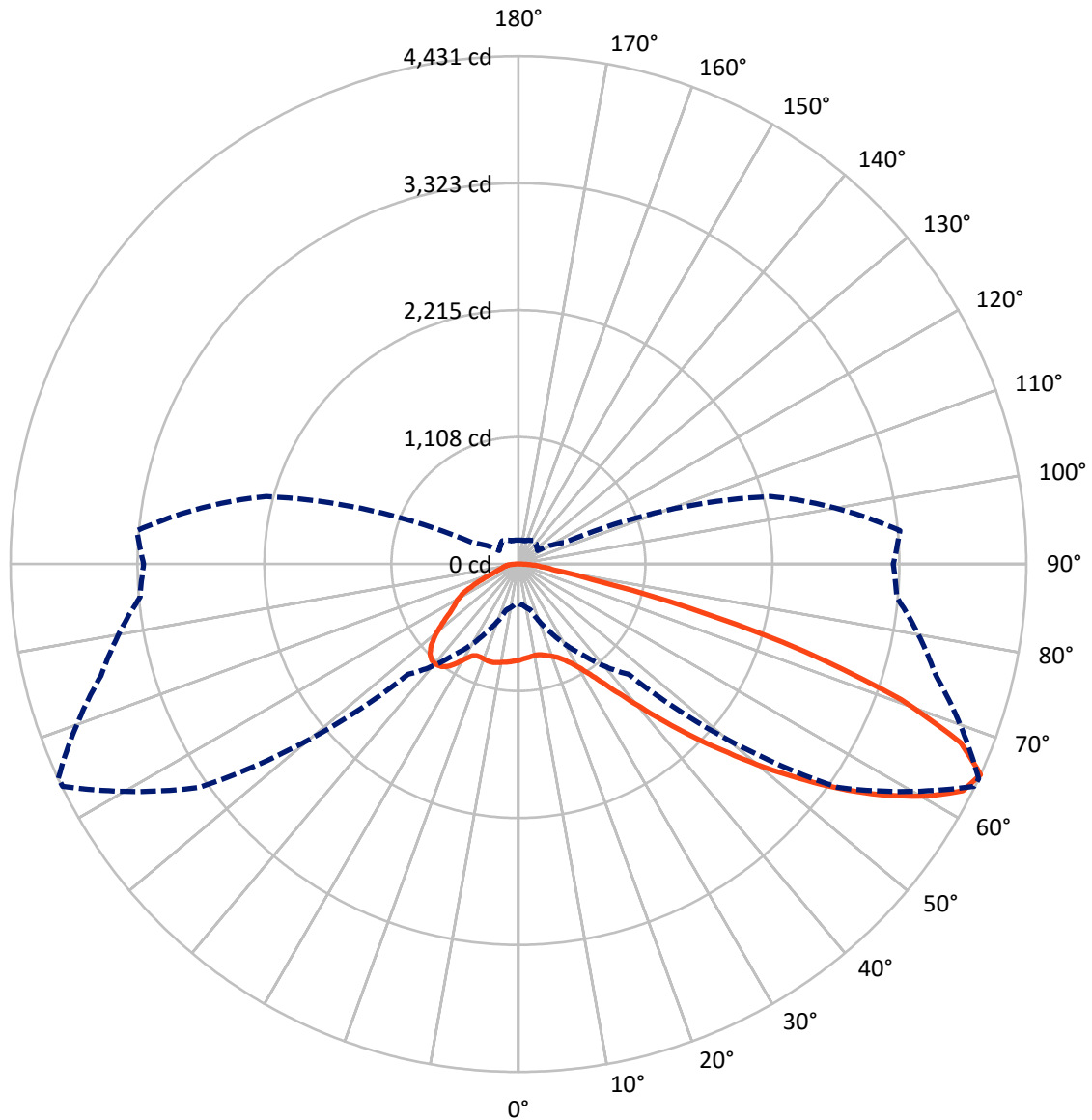


Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P397944

CATALOG NUMBER: ARCH-S-PA1-60-827-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P397944

CATALOG NUMBER: ARCH-S-PA1-60-827-U-T2U

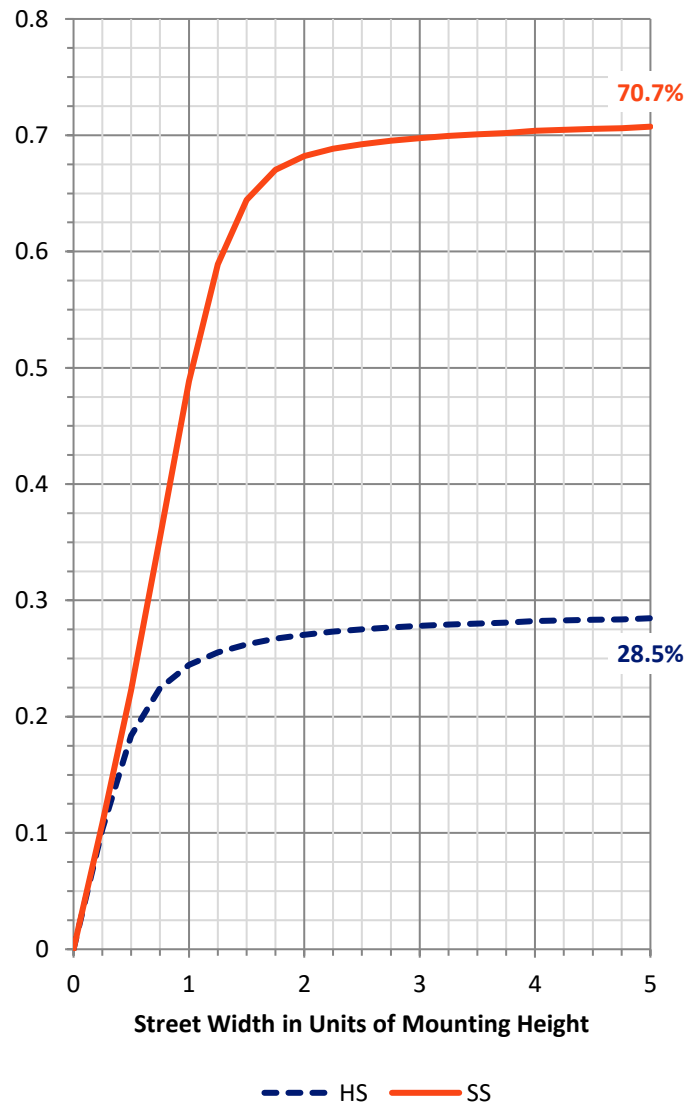
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1923.8	0.0	1923.8
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	4730.2	0.0	4730.2
	% Fixture	71.1	0.0	71.1
Total	Lumens	6654.0	0.0	6654.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.1	1.2
10°-20°	239.2	3.6
20°-30°	424.8	6.4
30°-40°	718.7	10.8
40°-50°	1251.1	18.8
50°-60°	1616.8	24.3
60°-70°	1414.8	21.3
70°-80°	769.5	11.6
80°-90°	139.0	2.1
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°	6654.0	100.0
0°-180°	6654.0	100.0



REPORT NUMBER: P397944

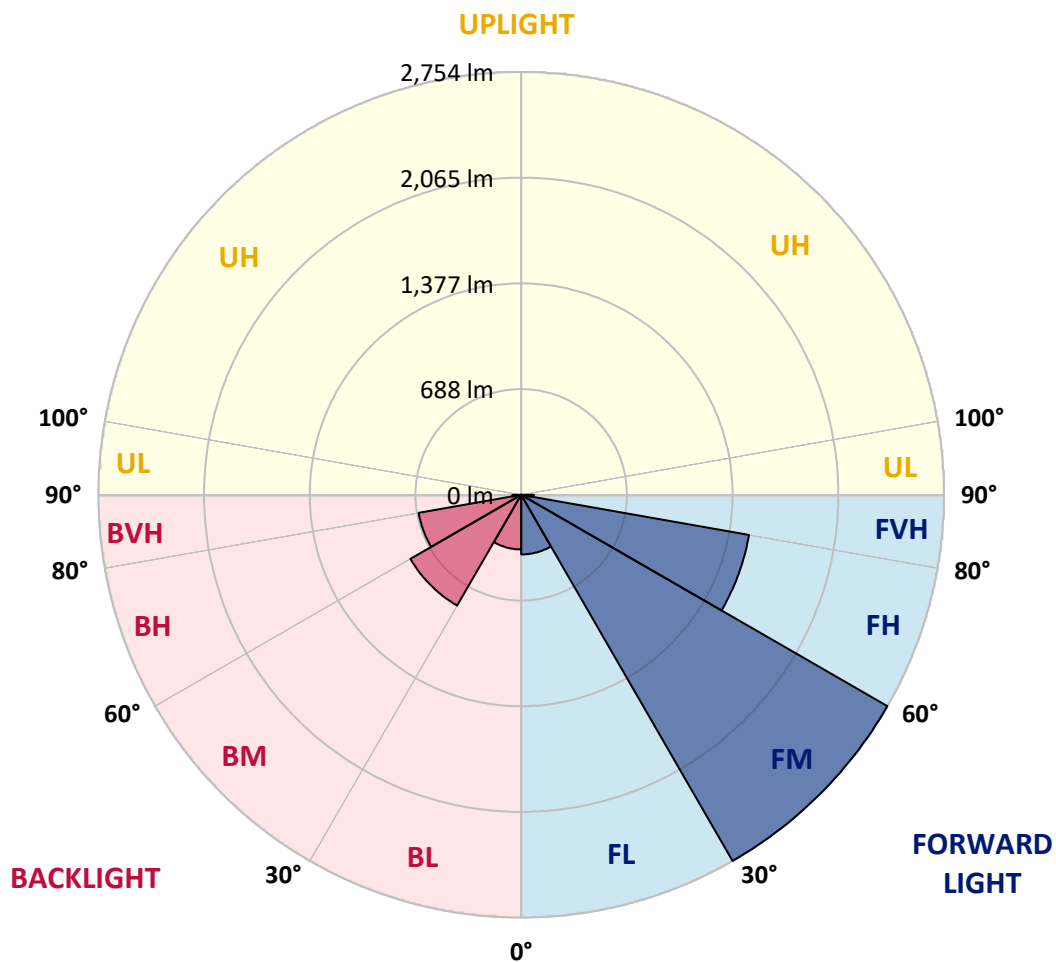
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	388.2	5.8			
FM	(30°-60°)	2753.6	41.4			
FH	(60°-80°)	1506.6	22.6			G1/1800
FVH	(80°-90°)	81.8	1.2			G1/100
BL	(0°-30°)	355.8	5.3	B1/500		
BM	(30°-60°)	832.9	12.5	B1/1000		
BH	(60°-80°)	677.8	10.2	B2/1000		G2/1000
BVH	(80°-90°)	57.2	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P397944

CATALOG NUMBER: ARCH-S-PA1-60-827-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	840.8	840.8	840.8	840.8	840.8	840.8	840.8	840.8	840.8	840.8	840.8
2.5°	825.9	825.0	823.3	825.0	825.9	827.7	826.8	828.5	827.7	830.3	834.7
5°	804.9	803.1	802.3	806.6	809.3	813.6	815.4	821.5	820.7	825.0	832.0
7.5°	781.2	781.2	780.4	785.6	789.1	797.0	803.1	813.6	814.5	822.4	830.3
10°	762.8	763.7	762.8	767.2	772.5	782.1	792.6	807.5	808.4	819.8	827.7
12.5°	755.8	755.8	755.8	762.0	769.0	782.1	794.4	810.1	811.9	824.2	831.2
15°	765.5	766.4	764.6	770.7	778.6	794.4	805.8	822.4	824.2	835.5	839.9
17.5°	799.6	803.1	798.8	802.3	800.5	812.8	823.3	839.9	840.8	850.4	852.2
20°	867.1	870.6	863.6	859.2	843.4	842.5	846.9	860.1	860.1	866.2	861.8
22.5°	971.3	974.8	962.5	945.9	908.2	889.8	880.2	886.3	885.5	888.1	876.7
25°	1109.7	1108.8	1093.9	1063.3	1002.8	958.2	934.5	924.9	924.9	919.6	905.6
27.5°	1281.3	1268.2	1241.9	1205.1	1121.1	1058.9	1008.1	983.6	979.2	963.4	937.1
30°	1464.4	1454.8	1417.1	1363.7	1266.5	1186.7	1102.7	1053.6	1051.0	1016.8	977.4
32.5°	1679.8	1664.1	1622.0	1558.1	1441.6	1329.5	1224.4	1150.0	1145.6	1091.3	1037.0
35°	1956.6	1943.5	1862.0	1798.1	1648.3	1501.2	1376.8	1277.8	1274.3	1207.8	1138.6
37.5°	2288.5	2254.4	2175.6	2055.6	1897.9	1723.6	1566.0	1441.6	1437.2	1363.7	1276.1
40°	2584.6	2553.9	2483.9	2373.5	2204.5	2010.9	1797.2	1646.6	1642.2	1552.8	1442.5
42.5°	2803.5	2782.5	2737.0	2673.0	2552.2	2434.8	2092.4	1894.4	1886.5	1770.9	1633.4
45°	2930.5	2913.9	2887.6	2903.4	2901.6	2879.7	2444.4	2189.6	2164.2	2014.4	1846.3
47.5°	2899.9	2885.0	2895.5	3018.1	3187.1	3314.1	2854.3	2491.7	2457.6	2262.3	2073.1
50°	2678.3	2684.4	2739.6	2974.3	3353.6	3635.6	3308.9	2835.9	2790.4	2511.9	2288.5
52.5°	2274.5	2289.4	2423.4	2751.9	3335.2	3844.0	3719.7	3191.5	3131.1	2755.4	2484.7
55°	1806.8	1844.5	2017.9	2363.0	3095.2	3858.9	4029.7	3548.9	3482.3	2984.0	2655.5
57.5°	1336.5	1392.6	1593.1	1910.2	2635.4	3623.3	4184.7	3890.4	3809.9	3210.8	2835.9
60°	847.8	882.0	1113.2	1487.2	2017.0	3047.0	4164.6	4181.2	4111.1	3436.8	3024.2
62.5°	541.3	557.9	674.4	1060.6	1410.1	2256.1	3944.7	4401.0	4353.8	3642.6	3202.9
65°	347.7	354.7	414.3	652.5	959.9	1361.9	3397.3	4424.7	4430.8	3771.3	3313.3
67.5°	282.9	286.4	308.3	402.9	678.8	752.3	2366.5	4088.4	4162.8	3738.0	3275.6
70°	257.5	261.9	284.6	321.4	525.5	519.4	1145.6	3421.0	3542.7	3546.2	3108.3
72.5°	217.2	223.3	254.0	303.9	406.4	409.9	485.2	2436.6	2616.1	3169.6	2857.0
75°	181.3	184.8	211.1	268.0	344.2	327.6	340.7	1291.8	1551.1	2541.7	2589.8
77.5°	147.1	150.6	169.9	213.7	305.7	254.9	268.0	535.1	661.3	1725.4	2116.9
80°	105.1	108.6	130.5	166.4	231.2	229.5	198.8	295.2	320.6	932.8	1375.1
82.5°	75.3	77.9	99.0	119.1	160.3	230.3	149.8	200.6	210.2	413.4	554.4
85°	50.8	50.8	68.3	78.8	103.3	145.4	120.9	135.8	141.9	196.2	149.8
87.5°	21.9	21.9	36.8	40.3	54.3	67.4	90.2	68.3	70.1	106.0	61.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P397944

CATALOG NUMBER: ARCH-S-PA1-60-827-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	840.8	840.8	840.8	840.8	840.8	840.8	840.8	840.8	840.8	840.8	840.8
2.5°	837.3	838.2	839.9	845.2	848.7	853.9	856.6	860.1	860.1	858.3	859.2
5°	835.5	838.2	844.3	853.9	860.1	869.7	876.7	882.0	883.7	882.0	882.8
7.5°	834.7	839.0	849.6	863.6	872.3	884.6	894.2	900.4	904.7	903.0	903.9
10°	832.0	839.0	852.2	869.7	882.8	895.1	903.9	906.5	909.1	907.4	906.5
12.5°	835.5	843.4	857.4	878.5	893.3	903.0	905.6	901.2	895.1	891.6	890.7
15°	842.5	850.4	864.4	886.3	899.5	903.0	896.9	882.8	868.8	860.9	860.1
17.5°	852.2	857.4	868.8	888.1	898.6	894.2	882.0	865.3	854.8	848.7	849.6
20°	858.3	858.3	867.1	882.0	890.7	887.2	872.3	853.9	837.3	829.4	826.8
22.5°	867.1	862.7	863.6	876.7	889.0	883.7	852.2	819.8	796.1	787.4	786.5
25°	890.7	878.5	870.6	878.5	907.4	864.4	801.4	763.7	741.8	733.9	734.8
27.5°	919.6	903.0	886.3	899.5	922.2	820.7	736.6	693.7	680.5	674.4	677.0
30°	948.5	926.6	904.7	952.0	911.7	752.3	653.4	611.3	599.9	595.6	599.1
32.5°	1001.9	966.0	939.8	1022.1	879.3	674.4	563.2	524.6	514.1	508.9	507.1
35°	1091.3	1045.7	1019.5	1083.4	833.8	587.7	480.8	453.7	442.3	430.9	429.2
37.5°	1220.0	1164.9	1141.2	1118.4	769.9	501.9	417.8	399.4	382.7	365.2	364.3
40°	1374.2	1302.4	1284.8	1134.2	681.4	421.3	374.0	356.5	335.4	318.8	319.7
42.5°	1552.0	1460.0	1422.3	1129.8	571.9	378.4	342.4	323.2	304.8	289.9	289.0
45°	1742.0	1637.8	1551.1	1099.2	463.3	348.6	323.2	300.4	282.0	265.4	263.6
47.5°	1952.2	1835.7	1670.2	1039.6	382.7	327.6	311.8	279.4	262.7	252.2	252.2
50°	2164.2	2024.9	1779.7	949.4	335.4	311.8	295.2	268.0	254.9	246.1	246.1
52.5°	2345.5	2222.0	1869.9	841.7	305.7	298.7	283.8	262.7	248.7	240.9	240.0
55°	2521.5	2405.0	1950.5	734.8	281.1	281.1	281.1	258.4	242.6	235.6	234.7
57.5°	2696.7	2597.7	2034.6	664.8	259.2	266.3	275.9	253.1	237.3	231.2	230.3
60°	2894.6	2828.9	2131.8	615.7	240.0	250.5	268.9	247.0	228.6	223.3	222.5
62.5°	3104.8	3104.8	2220.2	546.5	222.5	237.3	258.4	239.1	220.7	216.3	215.5
65°	3269.5	3340.4	2277.2	443.2	204.9	224.2	246.1	228.6	210.2	209.3	207.6
67.5°	3288.7	3400.0	2241.2	334.6	189.2	210.2	233.8	217.2	199.7	199.7	197.1
70°	3150.4	3263.3	2129.1	250.5	177.8	196.2	218.1	203.2	186.6	188.3	183.9
72.5°	2919.1	2947.2	1850.6	197.9	164.7	181.3	198.8	187.4	172.5	172.5	166.4
75°	2614.4	2458.5	1344.4	165.5	148.9	163.8	179.5	169.9	156.8	152.4	148.9
77.5°	2081.0	1781.4	781.2	142.8	135.8	147.1	157.6	150.6	139.3	129.6	129.6
80°	1268.2	1044.0	345.1	123.5	120.0	128.7	135.8	127.9	118.2	108.6	106.0
82.5°	482.6	402.9	167.3	106.0	105.1	110.4	115.6	107.7	100.7	96.3	83.2
85°	132.3	121.7	114.7	88.5	86.7	85.8	92.0	88.5	78.8	64.8	57.8
87.5°	49.9	56.9	62.2	54.3	57.8	53.4	61.3	56.1	49.9	32.4	28.9
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)