

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: P348966

Luminaire Tested: **ARCH-N-PA1-60-830-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1908-474-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-60-830-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6062 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

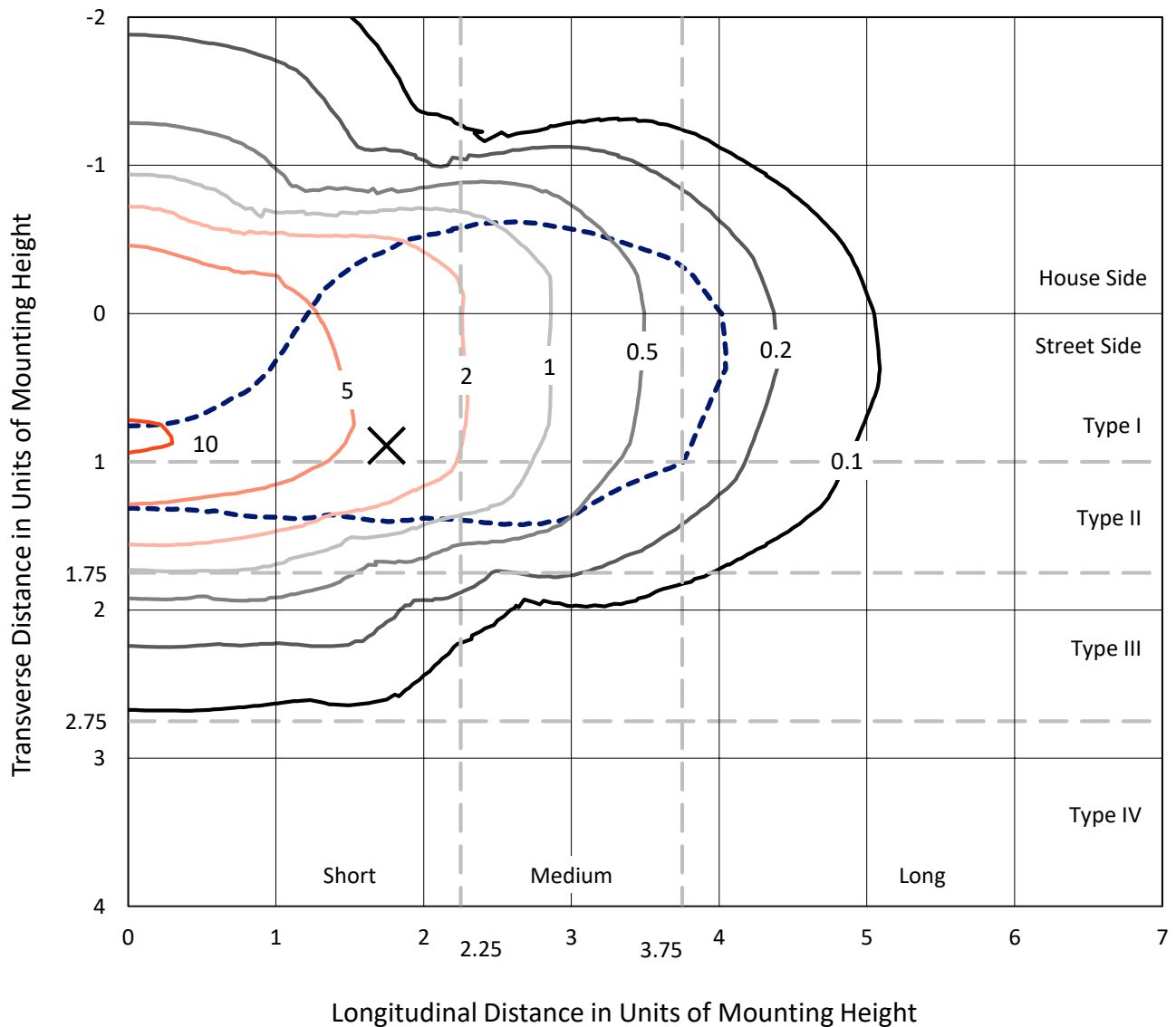
Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P348966
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Iso-Footcandle Lines of Horizontal Illumination

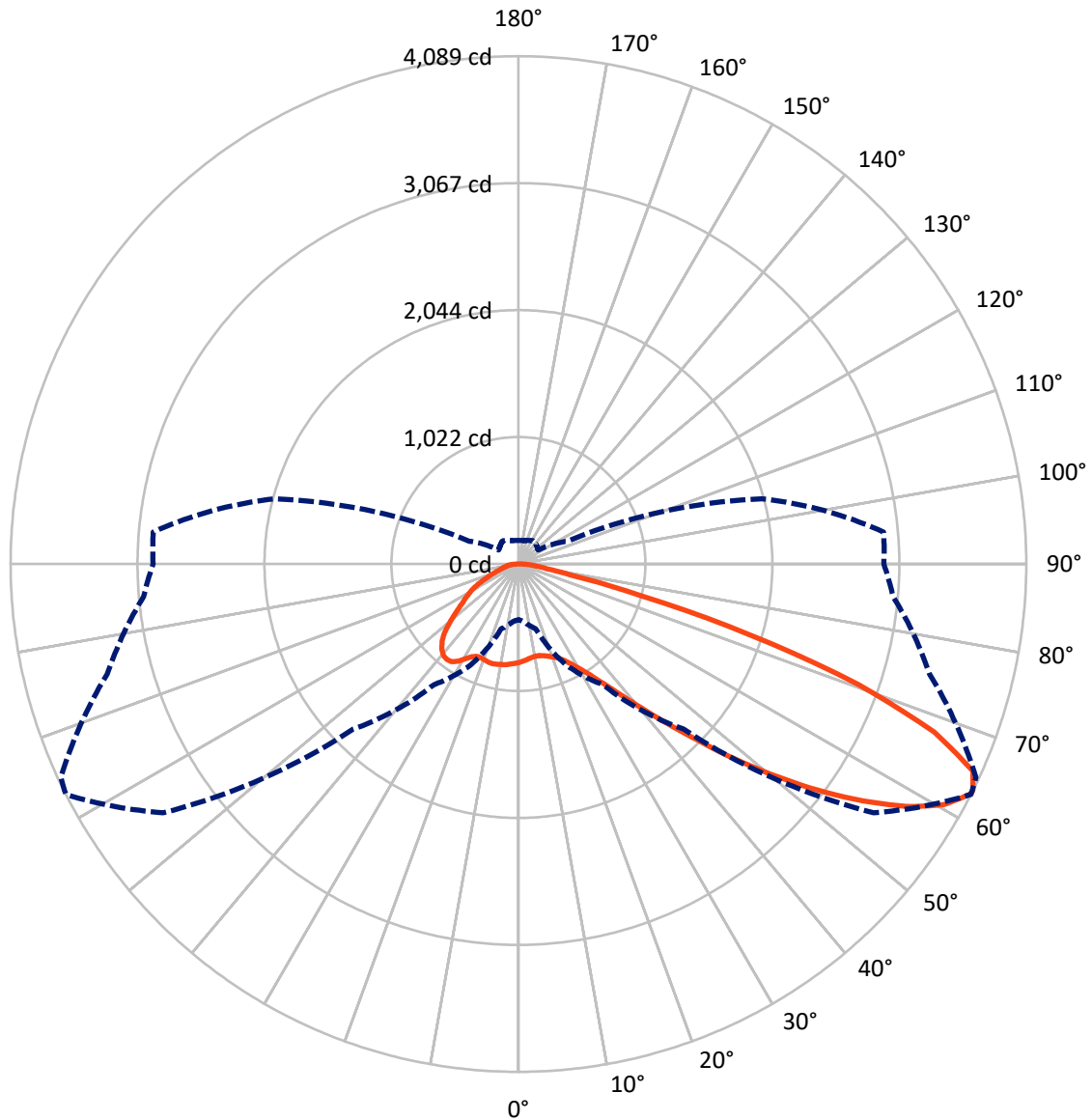
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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CATALOG NUMBER: ARCH-N-PA1-60-830-U-T2U

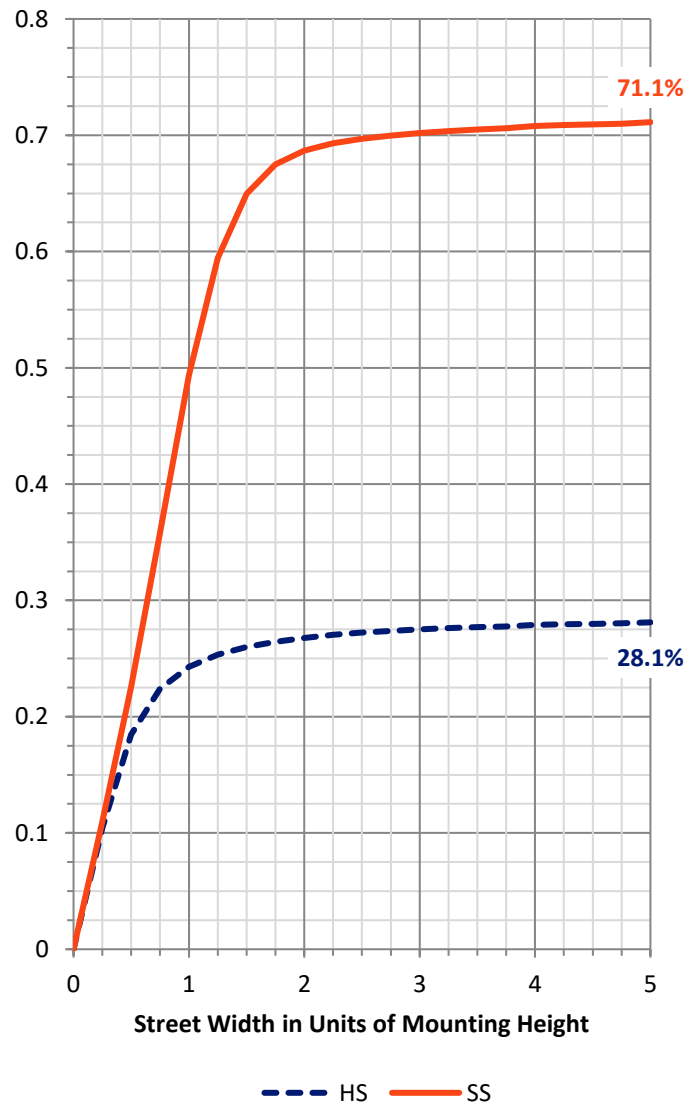
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1730.6	0.0	1730.6
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	4331.4	0.0	4331.4
	% Fixture	71.5	0.0	71.5
Total	Lumens	6062.0	0.0	6062.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	1.2
10°-20°	222.2	3.7
20°-30°	390.2	6.4
30°-40°	657.8	10.9
40°-50°	1152.3	19.0
50°-60°	1489.3	24.6
60°-70°	1289.1	21.3
70°-80°	669.2	11.0
80°-90°	116.6	1.9
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°	6062.0	100.0
0°-180°	6062.0	100.0



REPORT NUMBER: P348966

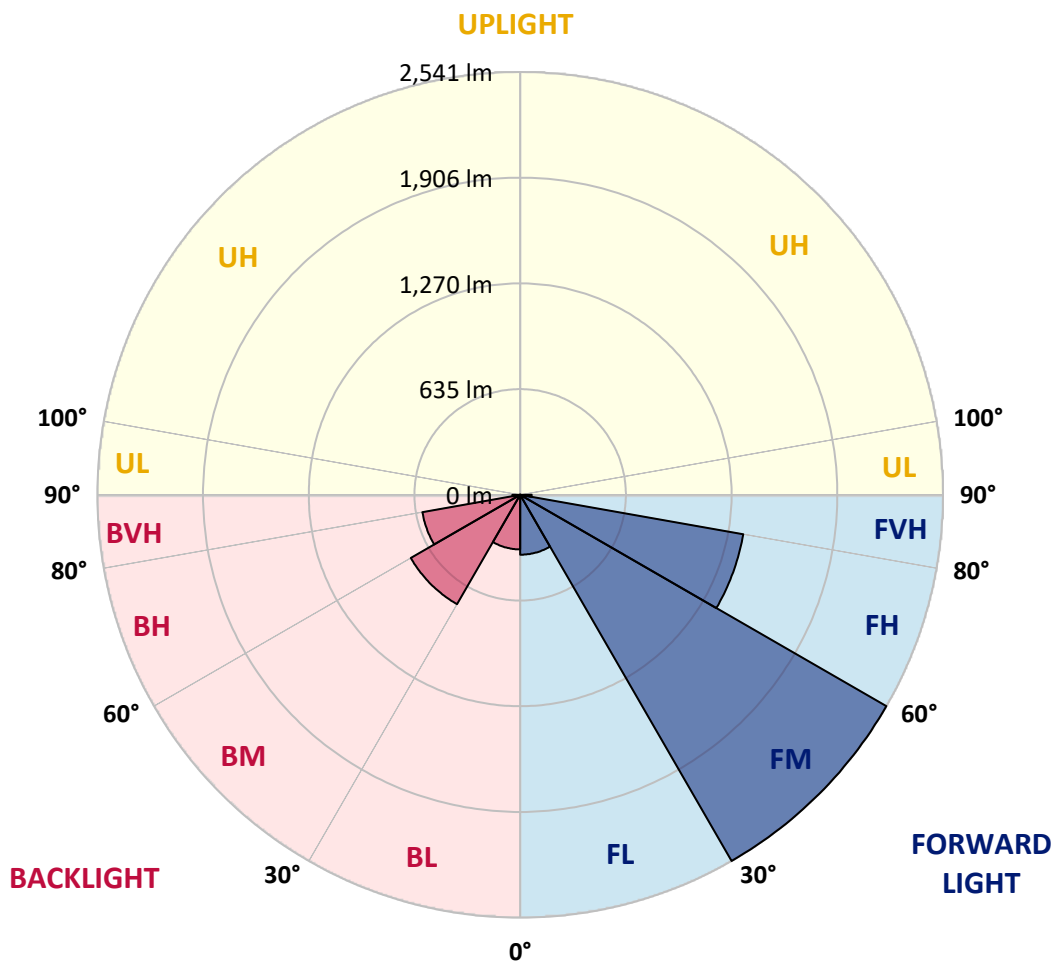
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	359.9	5.9			
FM	(30°-60°)	2540.7	41.9			
FH	(60°-80°)	1361.4	22.5			G1/1800
FVH	(80°-90°)	69.5	1.1			G1/100
BL	(0°-30°)	327.8	5.4	B1/500		
BM	(30°-60°)	758.6	12.5	B1/1000		
BH	(60°-80°)	597.0	9.8	B2/1000		G2/1000
BVH	(80°-90°)	47.2	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7
2.5°	775.0	772.7	776.7	778.4	777.8	781.2	781.2	781.8	781.8	784.6	787.5
5°	752.3	751.1	755.1	758.0	760.2	765.3	768.7	770.4	772.1	776.1	782.9
7.5°	730.7	729.0	734.7	737.0	740.4	747.7	755.7	760.2	762.5	771.0	780.6
10°	713.1	712.6	717.1	719.4	723.3	734.1	745.5	755.1	756.8	768.2	777.2
12.5°	704.6	703.5	708.6	711.4	718.2	731.3	744.3	756.2	759.1	772.1	780.1
15°	711.4	712.6	717.1	717.7	725.6	739.2	754.0	765.9	768.7	781.8	787.5
17.5°	743.8	743.2	746.0	744.9	747.7	754.5	770.4	780.1	783.5	793.1	797.7
20°	802.2	800.5	802.8	795.4	782.9	779.5	789.2	799.9	801.1	806.7	803.9
22.5°	891.3	893.0	887.9	869.1	839.1	824.9	818.7	822.1	826.0	825.5	817.0
25°	1007.6	1013.2	1003.6	970.7	920.2	887.3	864.6	859.5	862.3	854.4	841.3
27.5°	1160.2	1164.7	1143.7	1092.7	1024.6	975.8	930.4	912.8	912.8	895.8	872.0
30°	1328.1	1331.0	1297.5	1232.8	1153.9	1081.3	1014.4	980.3	977.5	944.0	906.6
32.5°	1532.4	1524.4	1484.7	1404.7	1305.4	1205.6	1119.3	1067.7	1062.0	1011.5	963.9
35°	1796.2	1796.2	1713.9	1622.6	1501.7	1374.6	1261.2	1181.2	1175.5	1118.2	1056.4
37.5°	2082.7	2081.5	2007.2	1881.3	1736.6	1581.1	1429.7	1329.8	1316.8	1255.5	1186.3
40°	2368.0	2358.4	2298.2	2178.5	2024.2	1846.7	1637.9	1521.6	1515.3	1428.0	1341.2
42.5°	2576.8	2567.7	2539.4	2459.4	2357.8	2229.6	1908.5	1751.3	1742.3	1632.2	1526.1
45°	2692.0	2678.9	2675.0	2676.1	2687.4	2686.9	2242.7	2023.1	1991.3	1863.7	1722.4
47.5°	2665.9	2635.2	2676.1	2781.0	2957.5	3073.2	2631.8	2345.9	2286.9	2104.2	1931.8
50°	2455.4	2440.6	2528.0	2741.9	3104.4	3376.2	3060.2	2681.2	2597.8	2331.7	2129.8
52.5°	2086.1	2114.4	2222.2	2526.3	3077.8	3559.4	3449.4	3029.5	2913.8	2548.4	2301.7
55°	1660.6	1696.3	1848.4	2170.6	2831.0	3561.7	3730.2	3367.1	3263.8	2772.5	2477.5
57.5°	1208.4	1258.9	1449.0	1744.5	2398.1	3318.3	3868.6	3683.1	3565.1	2993.2	2649.4
60°	759.1	794.8	1001.9	1344.6	1833.0	2781.0	3834.0	3936.1	3838.5	3201.4	2845.7
62.5°	489.0	506.1	595.7	959.9	1278.2	2039.5	3578.1	4081.4	4039.4	3391.5	2993.8
63°	448.2	462.9	539.5	887.3	1185.2	1879.0	3491.9	4088.7	4063.8	3427.2	3028.4
65°	320.5	336.4	376.1	609.9	874.8	1260.6	2992.1	4020.1	4047.9	3486.8	3075.5
67.5°	253.0	258.1	276.3	370.5	620.7	716.0	2013.5	3609.9	3731.9	3423.3	3005.7
70°	226.4	230.3	250.8	284.2	469.7	464.1	1050.1	2902.5	3154.9	3206.5	2829.8
72.5°	197.4	200.3	225.2	267.8	358.6	354.6	456.7	1951.6	2258.5	2809.4	2586.5
75°	163.4	166.2	187.2	237.7	303.5	280.3	285.9	1020.1	1294.6	2202.4	2268.2
77.5°	134.5	136.2	153.7	191.2	267.2	216.2	221.3	428.9	629.2	1501.2	1791.1
80°	97.6	98.1	114.6	145.2	204.2	195.2	164.5	233.7	285.4	822.6	1126.7
82.5°	68.1	68.6	85.7	101.6	140.7	194.6	119.7	156.6	171.3	379.0	501.5
85°	47.7	46.5	58.4	66.9	89.1	118.0	91.3	100.4	106.1	164.0	135.0
87.5°	21.0	20.4	32.9	35.7	44.8	54.5	72.6	52.8	56.2	79.4	42.5
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: P348966

CATALOG NUMBER: ARCH-N-PA1-60-830-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7	793.7
2.5°	788.0	790.3	793.7	798.8	802.8	804.5	807.9	808.4	813.5	809.0	809.6
5°	786.9	789.7	797.1	806.2	812.4	817.0	825.5	828.3	833.4	831.1	830.6
7.5°	785.2	790.3	801.1	814.1	823.8	831.1	839.1	844.2	849.3	848.2	847.0
10°	782.9	789.2	804.5	817.5	831.1	839.1	844.8	845.3	847.0	845.9	843.1
12.5°	784.6	791.4	809.0	822.1	836.2	841.9	840.2	831.7	824.3	818.1	817.0
15°	790.3	798.2	814.7	826.6	837.9	834.5	824.3	805.6	792.0	784.0	784.6
17.5°	796.0	802.8	815.3	824.9	830.6	820.4	804.5	788.6	782.3	776.1	775.0
20°	801.1	802.2	810.1	818.7	818.1	810.1	795.4	776.1	763.6	753.4	754.0
22.5°	809.0	804.5	805.0	810.1	816.4	809.0	774.4	740.9	722.2	710.3	709.7
25°	827.2	817.5	808.4	811.3	835.1	788.0	729.6	685.9	669.4	658.7	659.8
27.5°	852.1	839.1	820.9	836.2	849.3	746.6	665.5	620.7	609.3	598.0	600.8
30°	879.4	860.6	838.5	890.1	833.4	680.8	586.1	545.2	535.0	524.2	526.5
32.5°	928.2	900.4	871.4	954.8	796.5	600.8	502.7	465.8	459.0	452.2	452.7
35°	1009.3	976.4	945.2	1004.2	748.9	517.4	427.8	401.7	396.0	388.1	388.1
37.5°	1129.0	1077.4	1060.9	1030.3	683.6	439.7	372.7	355.1	343.2	332.5	332.5
40°	1268.0	1206.7	1193.7	1038.2	598.5	375.0	334.2	318.8	303.0	287.1	288.2
42.5°	1437.0	1354.2	1324.1	1027.4	495.3	333.6	306.9	289.3	274.0	260.4	258.1
45°	1627.7	1522.7	1446.7	996.2	401.7	308.1	289.3	268.3	249.1	237.1	234.9
47.5°	1822.3	1705.4	1555.0	933.8	335.9	289.9	277.4	247.9	234.3	226.4	225.2
50°	2008.3	1886.4	1644.7	835.7	297.8	276.9	259.8	238.3	226.9	220.1	219.6
52.5°	2173.4	2058.3	1720.1	734.1	272.3	266.1	251.9	233.7	221.8	215.6	214.5
55°	2330.6	2232.4	1795.0	643.4	250.2	247.9	247.9	229.2	216.2	210.5	209.3
57.5°	2503.1	2430.4	1870.5	577.0	230.3	234.9	242.8	224.1	209.9	204.8	204.2
60°	2702.2	2659.6	1949.9	518.5	212.7	220.7	235.4	217.3	202.5	198.6	197.4
62.5°	2905.9	2907.0	2018.6	448.2	198.0	209.9	226.9	211.0	195.7	192.9	192.3
63°	2941.6	2951.8	2028.2	432.9	194.6	207.6	224.7	208.8	194.0	191.2	190.6
65°	3029.5	3074.4	2036.1	368.2	182.1	199.1	216.2	201.4	186.7	186.1	184.9
67.5°	3008.5	3081.7	1986.8	288.8	167.9	187.2	204.2	190.6	177.6	177.6	175.3
70°	2852.0	2899.6	1835.3	223.0	157.2	174.7	190.1	179.3	165.7	166.8	162.3
72.5°	2612.0	2559.8	1509.7	174.2	144.1	160.6	173.6	164.5	152.6	151.5	146.4
75°	2260.2	2088.3	1081.3	140.7	128.2	141.8	155.4	148.6	137.9	131.6	130.5
77.5°	1722.4	1482.4	647.9	119.1	114.6	125.9	134.5	129.4	120.8	113.5	114.0
80°	1025.7	855.0	292.2	101.0	99.3	107.8	114.6	110.6	105.0	95.9	93.6
82.5°	415.3	330.8	131.1	81.7	84.0	90.2	96.4	93.0	88.5	86.2	73.2
85°	107.8	103.8	76.6	61.3	64.7	67.5	76.0	76.0	72.1	59.0	54.5
87.5°	30.6	40.8	42.5	38.6	43.7	44.3	52.8	52.8	53.9	36.3	32.9
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)