

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: P348958

Luminaire Tested: **ARCH-N-PA1-50-827-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348958
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-PA1-50-827-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 980mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4985 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

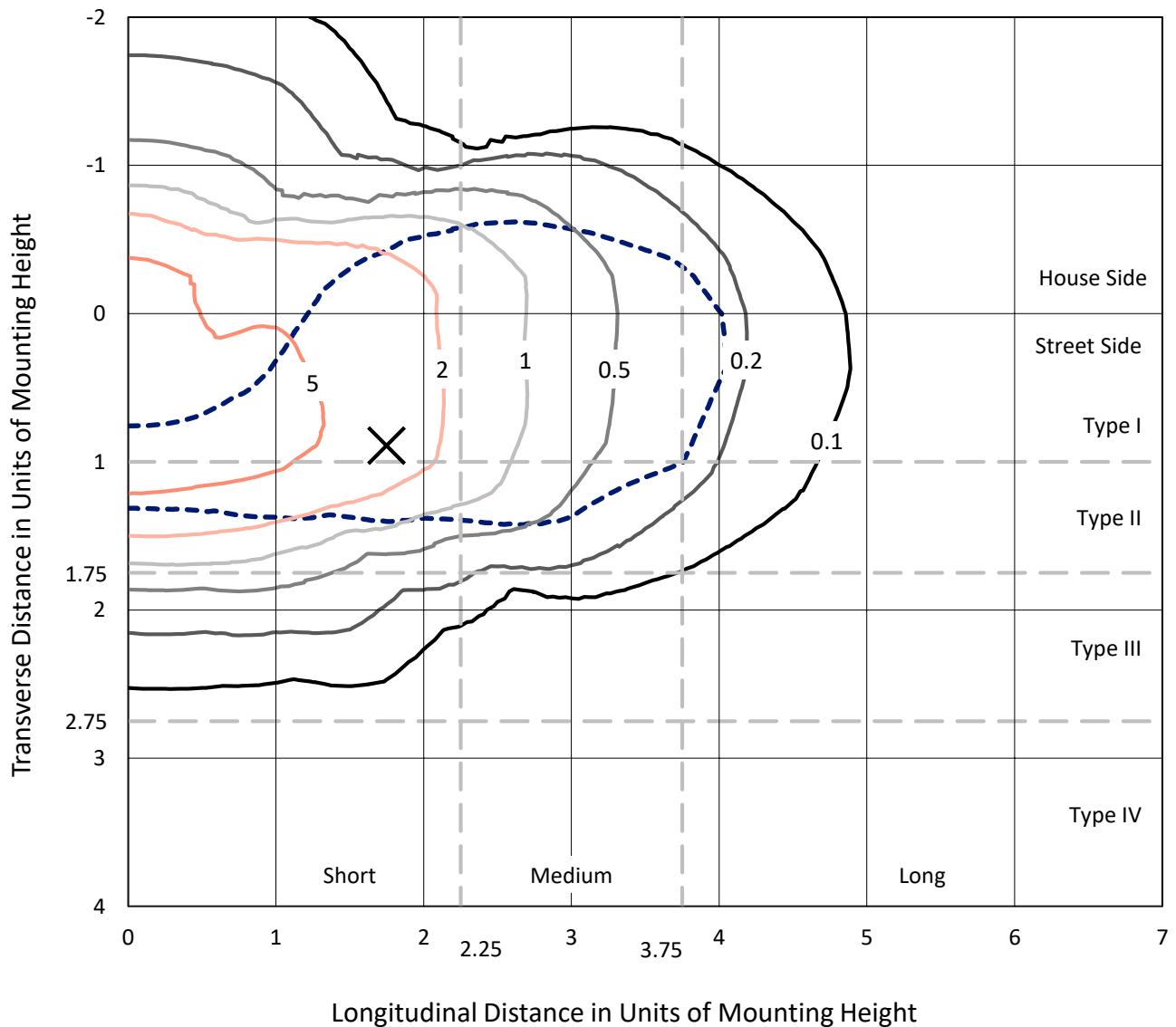
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

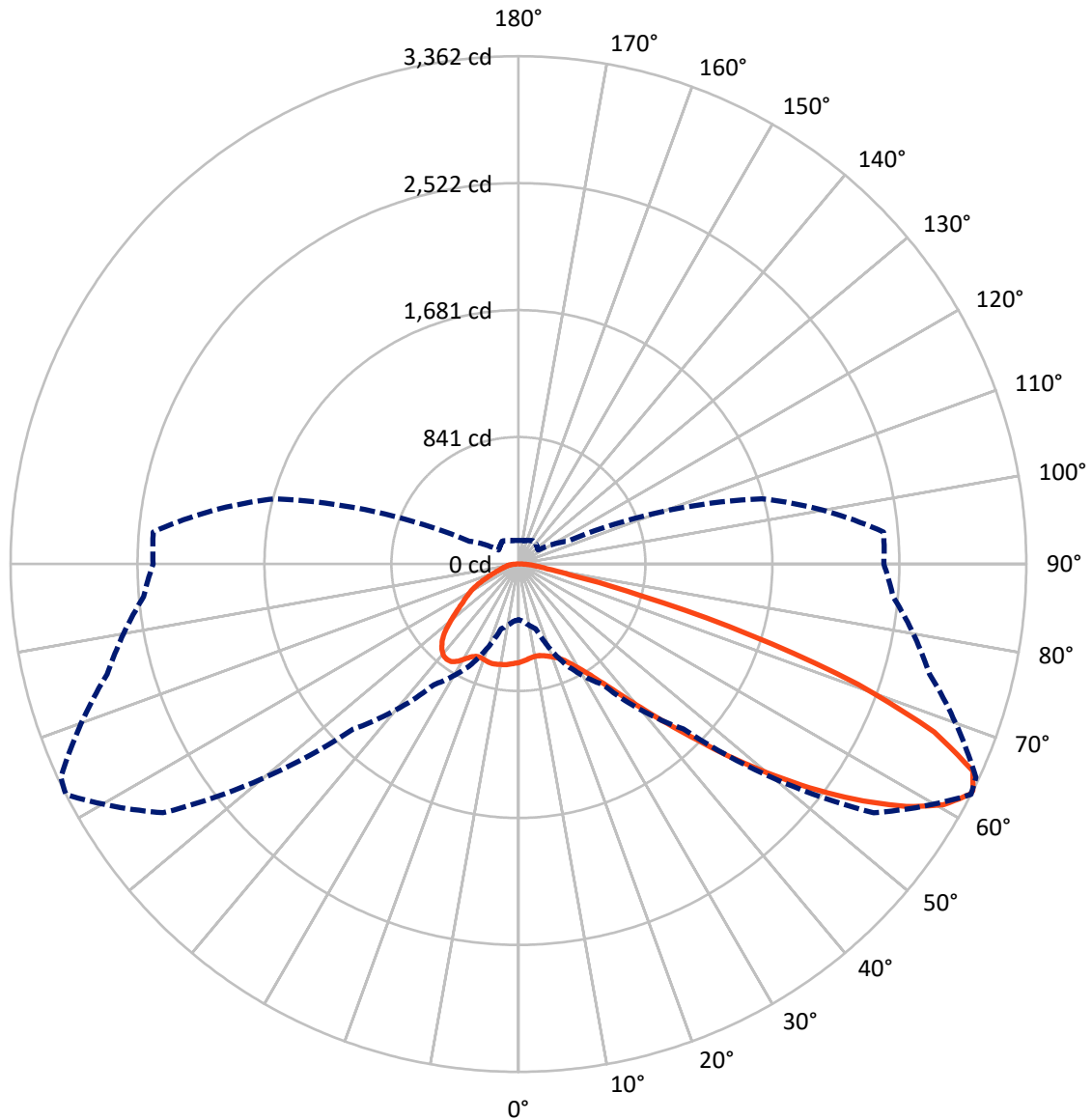


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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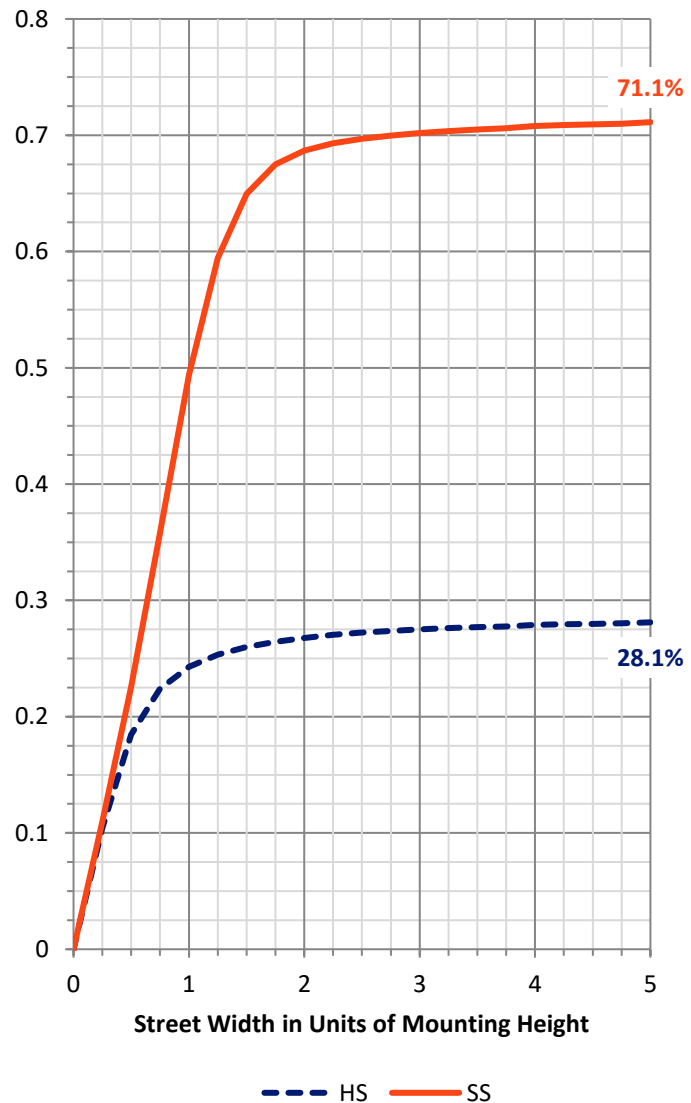
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1423.2	0.0	1423.2
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	3561.8	0.0	3561.8
	% Fixture	71.5	0.0	71.5
Total	Lumens	4985.0	0.0	4985.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.9	1.2
10°-20°	182.7	3.7
20°-30°	320.9	6.4
30°-40°	540.9	10.9
40°-50°	947.5	19.0
50°-60°	1224.7	24.6
60°-70°	1060.1	21.3
70°-80°	550.3	11.0
80°-90°	95.9	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°	4985.0	100.0
0°-180°	4985.0	100.0



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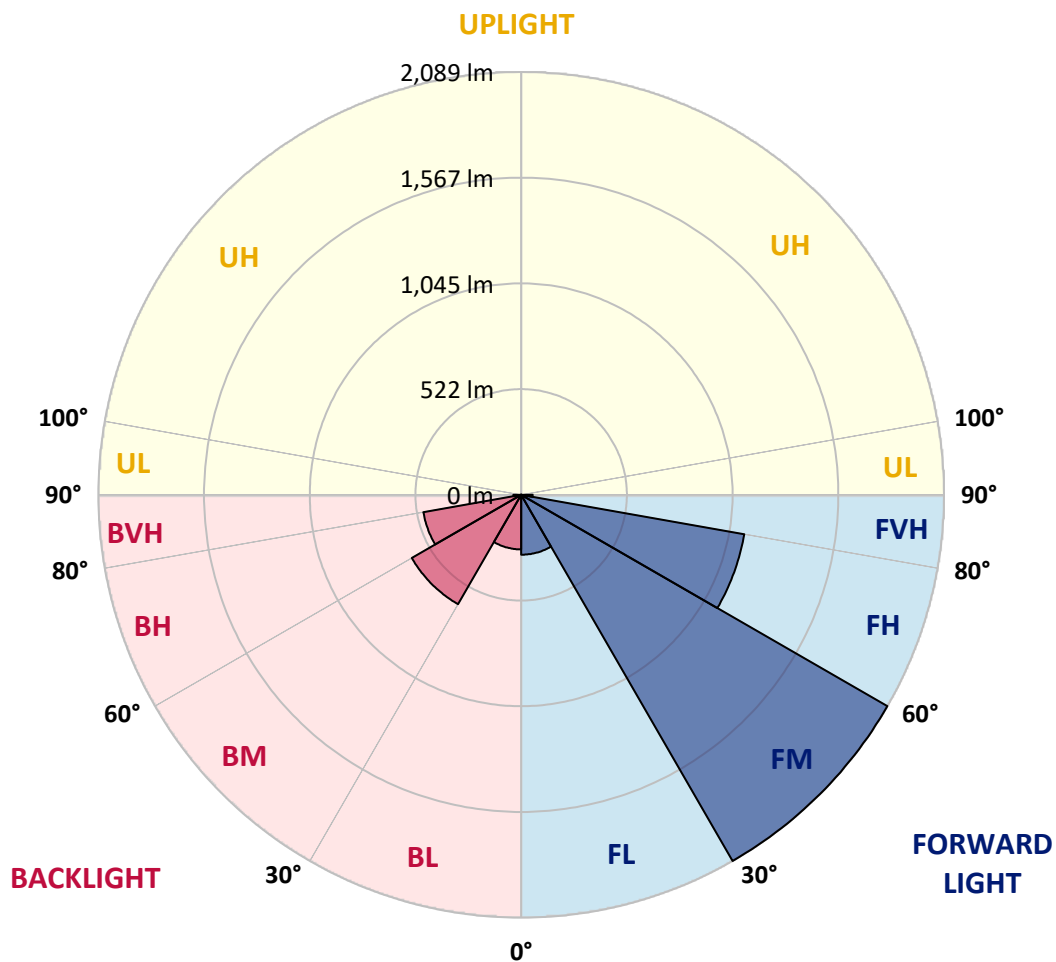
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	295.9	5.9			
FM (30°-60°)	2089.3	41.9			
FH (60°-80°)	1119.5	22.5			G1/1800
FVH (80°-90°)	57.1	1.1			G1/100
BL (0°-30°)	269.6	5.4	B1/500		
BM (30°-60°)	623.9	12.5	B1/1000		
BH (60°-80°)	490.9	9.8	B1/500		G1/500
BVH (80°-90°)	38.8	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	652.7	652.7	652.7	652.7	652.7	652.7	652.7	652.7	652.7	652.7	652.7
2.5°	637.3	635.4	638.7	640.1	639.6	642.4	642.4	642.9	642.9	645.2	647.6
5°	618.6	617.7	621.0	623.3	625.2	629.4	632.2	633.6	635.0	638.2	643.8
7.5°	600.9	599.5	604.2	606.0	608.8	614.9	621.4	625.2	627.0	634.0	642.0
10°	586.4	586.0	589.7	591.6	594.8	603.7	613.0	621.0	622.4	631.7	639.2
12.5°	579.4	578.5	582.7	585.0	590.6	601.4	612.1	621.9	624.2	635.0	641.5
15°	585.0	586.0	589.7	590.2	596.7	607.9	620.0	629.8	632.2	642.9	647.6
17.5°	611.6	611.2	613.5	612.6	614.9	620.5	633.6	641.5	644.3	652.2	655.9
20°	659.7	658.3	660.1	654.1	643.8	641.0	649.0	657.8	658.7	663.4	661.1
22.5°	732.9	734.3	730.1	714.7	690.0	678.3	673.2	676.0	679.3	678.8	671.8
25°	828.6	833.2	825.3	798.2	756.7	729.7	711.0	706.8	709.1	702.6	691.9
27.5°	954.1	957.8	940.5	898.5	842.6	802.4	765.1	750.7	750.7	736.7	717.1
30°	1092.2	1094.5	1067.0	1013.8	948.9	889.2	834.2	806.2	803.8	776.3	745.5
32.5°	1260.1	1253.6	1220.9	1155.1	1073.5	991.4	920.5	878.0	873.4	831.8	792.6
35°	1477.0	1477.0	1409.4	1334.3	1234.9	1130.4	1037.1	971.3	966.7	919.5	868.7
37.5°	1712.6	1711.7	1650.6	1547.0	1428.1	1300.2	1175.7	1093.6	1082.8	1032.4	975.5
40°	1947.3	1939.4	1889.9	1791.5	1664.6	1518.6	1346.9	1251.2	1246.1	1174.3	1102.9
42.5°	2119.0	2111.5	2088.2	2022.4	1938.9	1833.5	1569.4	1440.2	1432.7	1342.2	1255.0
45°	2213.7	2203.0	2199.7	2200.6	2210.0	2209.5	1844.2	1663.7	1637.5	1532.6	1416.4
47.5°	2192.2	2167.1	2200.6	2287.0	2432.0	2527.2	2164.3	1929.1	1880.6	1730.4	1588.6
50°	2019.2	2007.0	2078.9	2254.8	2552.9	2776.3	2516.5	2204.8	2136.3	1917.5	1751.4
52.5°	1715.4	1738.8	1827.4	2077.5	2531.0	2927.0	2836.5	2491.3	2396.1	2095.7	1892.7
55°	1365.5	1394.9	1520.0	1785.0	2328.0	2928.9	3067.5	2768.9	2684.0	2280.0	2037.4
57.5°	993.7	1035.2	1191.5	1434.6	1972.0	2728.8	3181.3	3028.7	2931.7	2461.4	2178.7
60°	624.2	653.6	823.9	1105.7	1507.4	2287.0	3152.8	3236.8	3156.6	2632.7	2340.1
62.5°	402.2	416.1	489.9	789.4	1051.1	1677.2	2942.4	3356.3	3321.7	2788.9	2461.9
63°	368.6	380.7	443.7	729.7	974.6	1545.2	2871.5	3362.3	3341.8	2818.3	2490.4
65°	263.6	276.7	309.3	501.5	719.4	1036.6	2460.5	3305.9	3328.7	2867.3	2529.1
67.5°	208.1	212.3	227.2	304.6	510.4	588.8	1655.7	2968.6	3068.9	2815.1	2471.7
70°	186.1	189.4	206.2	233.7	386.3	381.6	863.6	2386.8	2594.4	2636.9	2327.1
72.5°	162.4	164.7	185.2	220.2	294.9	291.6	375.6	1604.9	1857.3	2310.3	2126.9
75°	134.4	136.7	154.0	195.5	249.6	230.5	235.1	838.8	1064.6	1811.1	1865.2
77.5°	110.6	112.0	126.4	157.2	219.7	177.7	181.9	352.7	517.4	1234.5	1472.9
80°	80.2	80.7	94.2	119.4	168.0	160.5	135.3	192.2	234.7	676.5	926.5
82.5°	56.0	56.5	70.4	83.5	115.7	160.0	98.4	128.8	140.9	311.6	412.4
85°	39.2	38.3	48.1	55.1	73.2	97.0	75.1	82.6	87.2	134.8	111.0
87.5°	17.3	16.8	27.1	29.4	36.9	44.8	59.7	43.4	46.2	65.3	35.0
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°	652.7	652.7	652.7	652.7	652.7	652.7	652.7	652.7	652.7	652.7	652.7
2.5°	648.0	649.9	652.7	656.9	660.1	661.5	664.3	664.8	669.0	665.3	665.7
5°	647.1	649.4	655.5	662.9	668.1	671.8	678.8	681.1	685.3	683.5	683.0
7.5°	645.7	649.9	658.7	669.5	677.4	683.5	690.0	694.2	698.4	697.5	696.5
10°	643.8	649.0	661.5	672.3	683.5	690.0	694.7	695.1	696.5	695.6	693.3
12.5°	645.2	650.8	665.3	676.0	687.7	692.3	690.9	683.9	677.9	672.7	671.8
15°	649.9	656.4	669.9	679.7	689.1	686.3	677.9	662.5	651.3	644.8	645.2
17.5°	654.5	660.1	670.4	678.3	683.0	674.6	661.5	648.5	643.4	638.2	637.3
20°	658.7	659.7	666.2	673.2	672.7	666.2	654.1	638.2	628.0	619.6	620.0
22.5°	665.3	661.5	662.0	666.2	671.3	665.3	636.8	609.3	593.9	584.1	583.6
25°	680.2	672.3	664.8	667.1	686.7	648.0	600.0	564.0	550.5	541.6	542.6
27.5°	700.7	690.0	675.1	687.7	698.4	614.0	547.2	510.4	501.1	491.7	494.1
30°	723.1	707.7	689.5	732.0	685.3	559.8	481.9	448.3	439.9	431.1	432.9
32.5°	763.3	740.4	716.6	785.2	655.0	494.1	413.3	383.0	377.4	371.8	372.3
35°	830.0	802.9	777.2	825.8	615.8	425.5	351.8	330.3	325.6	319.1	319.1
37.5°	928.4	885.9	872.4	847.2	562.2	361.6	306.5	292.1	282.3	273.4	273.4
40°	1042.7	992.3	981.6	853.8	492.2	308.4	274.8	262.2	249.1	236.1	237.0
42.5°	1181.7	1113.6	1088.9	844.9	407.3	274.3	252.4	237.9	225.3	214.1	212.3
45°	1338.5	1252.2	1189.7	819.2	330.3	253.3	237.9	220.7	204.8	195.0	193.1
47.5°	1498.5	1402.4	1278.8	767.9	276.2	238.4	228.1	203.9	192.7	186.1	185.2
50°	1651.5	1551.2	1352.5	687.2	244.9	227.7	213.7	195.9	186.6	181.0	180.5
52.5°	1787.3	1692.6	1414.5	603.7	223.9	218.8	207.1	192.2	182.4	177.3	176.4
55°	1916.5	1835.8	1476.1	529.1	205.7	203.9	203.9	188.5	177.7	173.1	172.2
57.5°	2058.4	1998.6	1538.2	474.5	189.4	193.1	199.7	184.3	172.6	168.4	168.0
60°	2222.1	2187.1	1603.5	426.4	175.0	181.5	193.6	178.7	166.6	163.3	162.4
62.5°	2389.6	2390.5	1659.9	368.6	162.8	172.6	186.6	173.6	161.0	158.6	158.2
63°	2419.0	2427.4	1667.9	356.0	160.0	170.8	184.7	171.7	159.6	157.2	156.8
65°	2491.3	2528.2	1674.4	302.8	149.8	163.8	177.7	165.6	153.5	153.0	152.1
67.5°	2474.0	2534.2	1633.8	237.5	138.1	154.0	168.0	156.8	146.0	146.0	144.2
70°	2345.3	2384.5	1509.2	183.3	129.2	143.7	156.3	147.4	136.2	137.2	133.4
72.5°	2147.9	2105.0	1241.4	143.2	118.5	132.0	142.8	135.3	125.5	124.6	120.4
75°	1858.7	1717.3	889.2	115.7	105.4	116.6	127.8	122.2	113.4	108.2	107.3
77.5°	1416.4	1219.1	532.8	98.0	94.2	103.6	110.6	106.4	99.4	93.3	93.8
80°	843.5	703.1	240.3	83.0	81.6	88.6	94.2	91.0	86.3	78.8	77.0
82.5°	341.5	272.0	107.8	67.2	69.0	74.2	79.3	76.5	72.8	70.9	60.2
85°	88.6	85.4	63.0	50.4	53.2	55.5	62.5	62.5	59.2	48.5	44.8
87.5°	25.2	33.6	35.0	31.7	35.9	36.4	43.4	43.4	44.3	29.9	27.1
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)