

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: P397746

Luminaire Tested: **ARCH-S-PA1-40-722-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397746
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-PA1-40-722-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4495 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

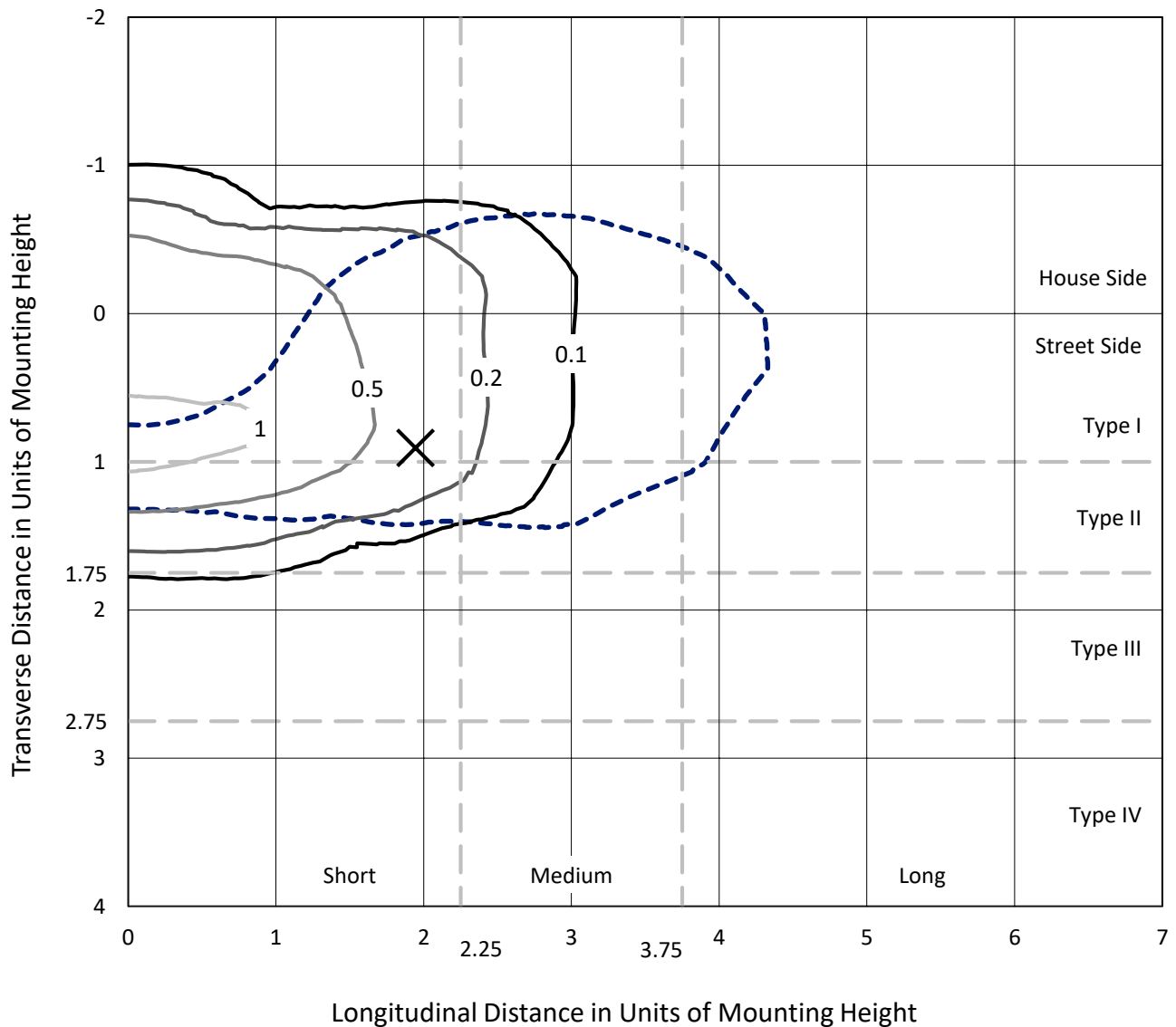
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

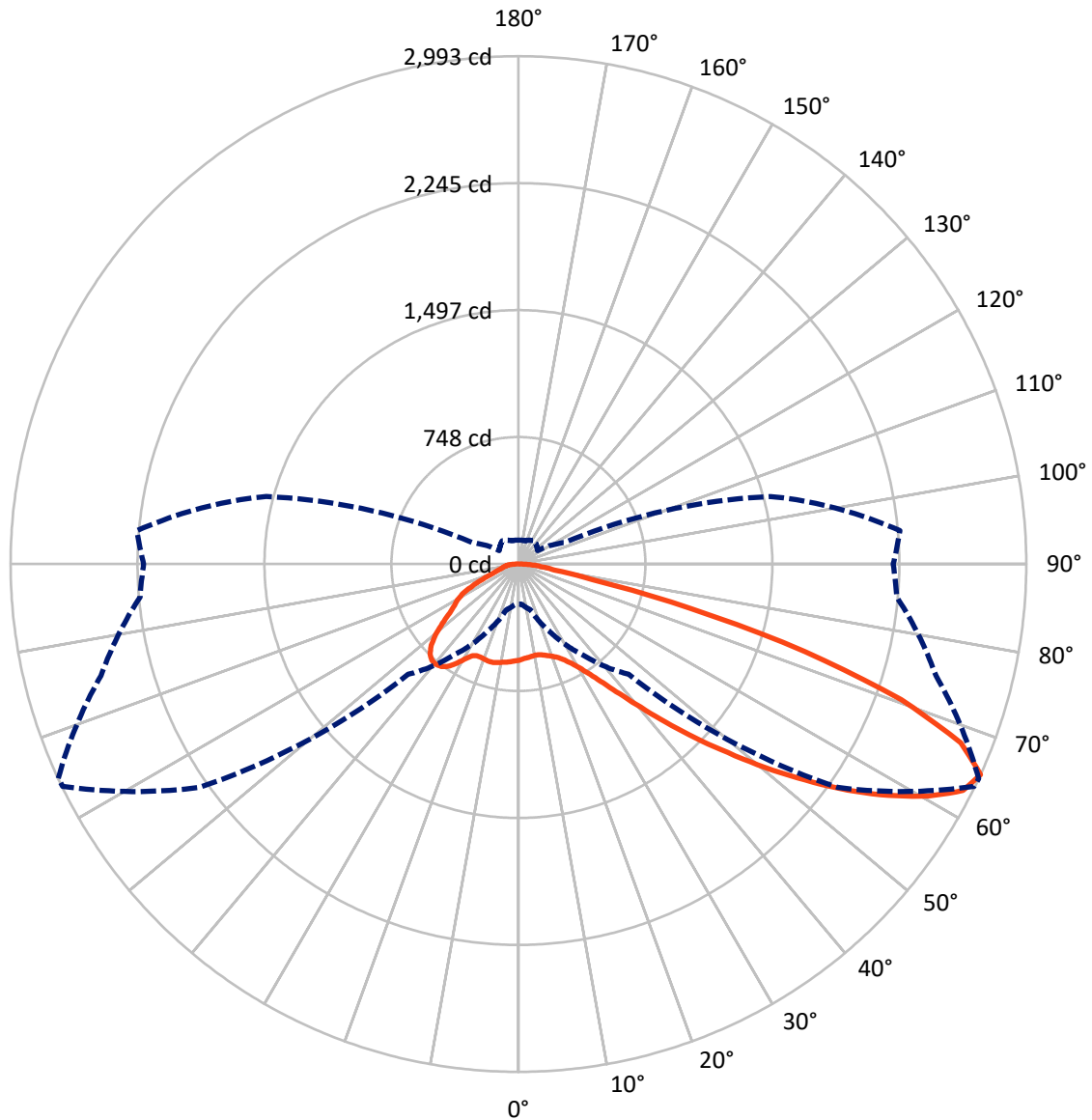


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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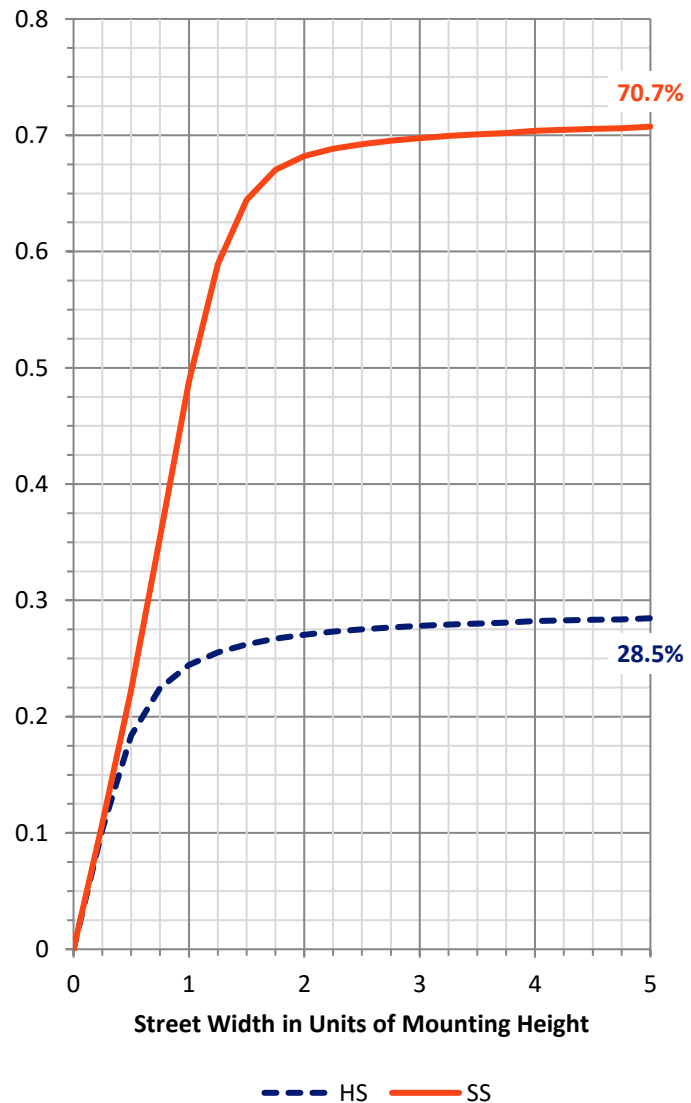
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1299.6	0.0	1299.6
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	3195.4	0.0	3195.4
	% Fixture	71.1	0.0	71.1
Total	Lumens	4495.0	0.0	4495.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	1.2
10°-20°	161.6	3.6
20°-30°	287.0	6.4
30°-40°	485.5	10.8
40°-50°	845.1	18.8
50°-60°	1092.2	24.3
60°-70°	955.7	21.3
70°-80°	519.9	11.6
80°-90°	93.9	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°	4495.0	100.0
0°-180°	4495.0	100.0



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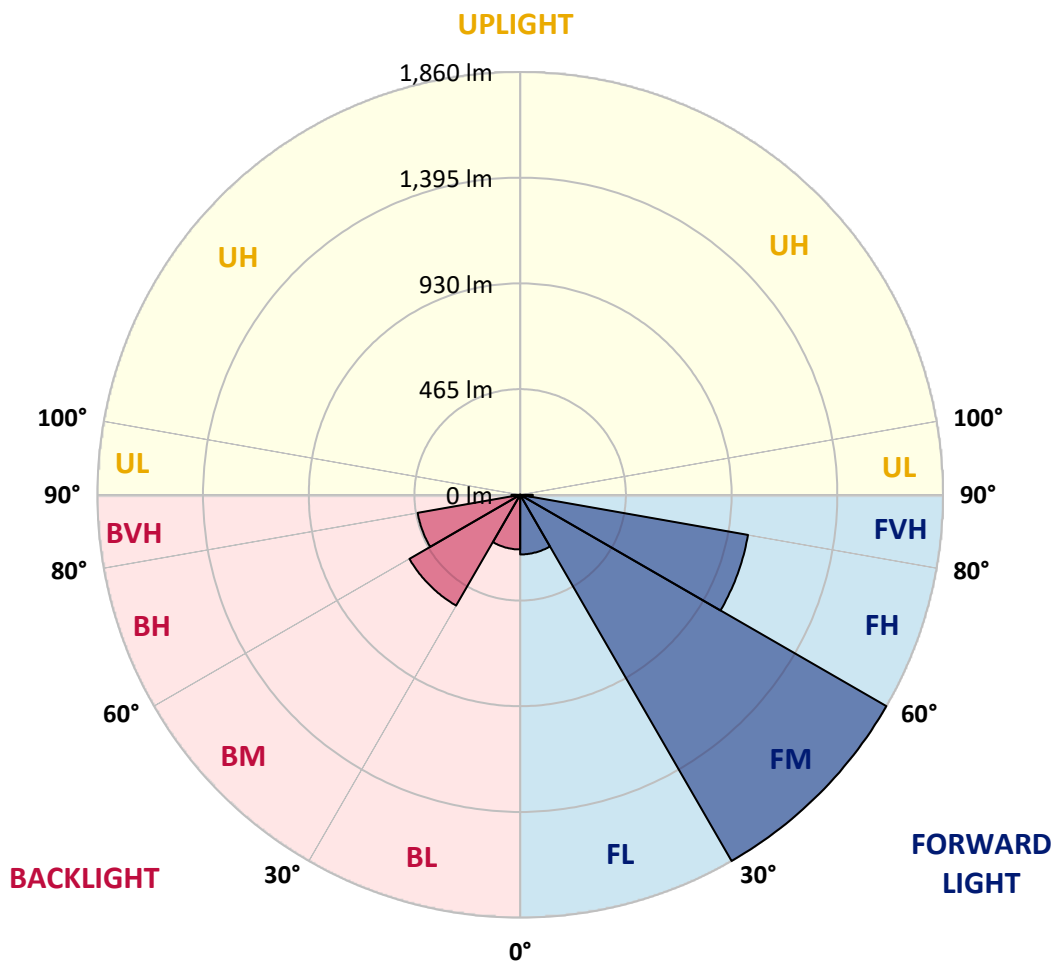
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	262.3	5.8			
FM	(30°-60°)	1860.2	41.4			
FH	(60°-80°)	1017.7	22.6			G1/1800
FVH	(80°-90°)	55.3	1.2			G1/100
BL	(0°-30°)	240.4	5.3	B1/500		
BM	(30°-60°)	562.7	12.5	B1/1000		
BH	(60°-80°)	457.9	10.2	B1/500		G1/500
BVH	(80°-90°)	38.7	0.9			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°	64°	65°	75°	85°
0°	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
2.5°	557.9	557.3	556.2	557.3	557.9	559.1	558.5	559.7	559.1	560.9	563.8
5°	543.7	542.5	542.0	544.9	546.7	549.6	550.8	555.0	554.4	557.3	562.1
7.5°	527.8	527.8	527.2	530.7	533.1	538.4	542.5	549.6	550.2	555.6	560.9
10°	515.3	515.9	515.3	518.3	521.8	528.3	535.4	545.5	546.1	553.8	559.1
12.5°	510.6	510.6	510.6	514.7	519.5	528.3	536.6	547.3	548.5	556.7	561.5
15°	517.1	517.7	516.5	520.7	526.0	536.6	544.3	555.6	556.7	564.4	567.4
17.5°	540.2	542.5	539.6	542.0	540.8	549.1	556.2	567.4	568.0	574.5	575.7
20°	585.7	588.1	583.4	580.4	569.8	569.2	572.1	581.0	581.0	585.1	582.2
22.5°	656.1	658.5	650.2	639.0	613.5	601.1	594.6	598.8	598.2	599.9	592.2
25°	749.6	749.0	739.0	718.3	677.4	647.3	631.3	624.8	624.8	621.2	611.8
27.5°	865.6	856.7	839.0	814.1	757.3	715.3	681.0	664.4	661.5	650.8	633.1
30°	989.2	982.7	957.3	921.2	855.5	801.7	744.9	711.8	710.0	686.9	660.3
32.5°	1134.8	1124.1	1095.7	1052.6	973.9	898.1	827.1	776.8	773.9	737.2	700.5
35°	1321.8	1312.9	1257.9	1214.7	1113.5	1014.1	930.1	863.2	860.9	815.9	769.1
37.5°	1546.0	1522.9	1469.7	1388.6	1282.1	1164.4	1057.9	973.9	970.9	921.2	862.0
40°	1746.0	1725.3	1677.9	1603.4	1489.2	1358.4	1214.1	1112.3	1109.3	1049.0	974.5
42.5°	1893.9	1879.7	1848.9	1805.7	1724.1	1644.8	1413.5	1279.7	1274.4	1196.3	1103.4
45°	1979.7	1968.4	1950.7	1961.3	1960.1	1945.4	1651.3	1479.1	1462.0	1360.8	1247.2
47.5°	1959.0	1948.9	1956.0	2038.8	2153.0	2238.8	1928.2	1683.3	1660.2	1528.2	1400.4
50°	1809.3	1813.4	1850.7	2009.3	2265.4	2456.0	2235.3	1915.8	1885.0	1696.9	1546.0
52.5°	1536.5	1546.6	1637.1	1859.0	2253.0	2596.8	2512.7	2156.0	2115.2	1861.3	1678.5
55°	1220.6	1246.0	1363.2	1596.3	2090.9	2606.8	2722.2	2397.4	2352.4	2015.8	1793.9
57.5°	902.9	940.7	1076.2	1290.4	1780.3	2447.7	2826.9	2628.1	2573.7	2169.0	1915.8
60°	572.7	595.8	752.0	1004.6	1362.6	2058.4	2813.3	2824.5	2777.2	2321.6	2043.0
62.5°	365.6	376.9	455.6	716.5	952.6	1524.1	2664.8	2973.1	2941.1	2460.7	2163.7
65°	234.9	239.6	279.9	440.8	648.5	920.0	2295.0	2989.0	2993.2	2547.7	2238.2
67.5°	191.1	193.5	208.3	272.2	458.5	508.2	1598.6	2761.8	2812.1	2525.2	2212.8
70°	173.9	176.9	192.3	217.1	355.0	350.9	773.9	2311.0	2393.2	2395.6	2099.8
72.5°	146.7	150.9	171.6	205.3	274.5	276.9	327.8	1646.0	1767.3	2141.2	1930.0
75°	122.5	124.8	142.6	181.0	232.5	221.3	230.2	872.7	1047.8	1717.0	1749.5
77.5°	99.4	101.8	114.8	144.4	206.5	172.2	181.0	361.5	446.7	1165.6	1430.0
80°	71.0	73.4	88.2	112.4	156.2	155.0	134.3	199.4	216.5	630.1	928.9
82.5°	50.9	52.7	66.9	80.5	108.3	155.6	101.2	135.5	142.0	279.3	374.5
85°	34.3	34.3	46.1	53.2	69.8	98.2	81.6	91.7	95.8	132.5	101.2
87.5°	14.8	14.8	24.8	27.2	36.7	45.6	60.9	46.1	47.3	71.6	41.4
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°	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
2.5°	565.6	566.2	567.4	570.9	573.3	576.9	578.6	581.0	581.0	579.8	580.4
5°	564.4	566.2	570.4	576.9	581.0	587.5	592.2	595.8	597.0	595.8	596.4
7.5°	563.8	566.8	573.9	583.4	589.3	597.6	604.1	608.2	611.2	610.0	610.6
10°	562.1	566.8	575.7	587.5	596.4	604.7	610.6	612.4	614.1	613.0	612.4
12.5°	564.4	569.8	579.2	593.4	603.5	610.0	611.8	608.8	604.7	602.3	601.7
15°	569.2	574.5	584.0	598.8	607.6	610.0	605.9	596.4	586.9	581.6	581.0
17.5°	575.7	579.2	586.9	599.9	607.0	604.1	595.8	584.6	577.5	573.3	573.9
20°	579.8	579.8	585.7	595.8	601.7	599.3	589.3	576.9	565.6	560.3	558.5
22.5°	585.7	582.8	583.4	592.2	600.5	597.0	575.7	553.8	537.8	531.9	531.3
25°	601.7	593.4	588.1	593.4	613.0	584.0	541.4	515.9	501.1	495.8	496.4
27.5°	621.2	610.0	598.8	607.6	623.0	554.4	497.6	468.6	459.7	455.6	457.3
30°	640.8	626.0	611.2	643.1	615.9	508.2	441.4	413.0	405.3	402.3	404.7
32.5°	676.9	652.6	634.8	690.5	594.0	455.6	380.4	354.4	347.3	343.8	342.6
35°	737.2	706.4	688.7	731.9	563.3	397.0	324.8	306.5	298.8	291.1	289.9
37.5°	824.2	786.9	770.9	755.5	520.1	339.0	282.2	269.8	258.6	246.7	246.1
40°	928.3	879.8	868.0	766.2	460.3	284.6	252.6	240.8	226.6	215.4	216.0
42.5°	1048.4	986.3	960.8	763.2	386.3	255.6	231.3	218.3	205.9	195.8	195.2
45°	1176.8	1106.4	1047.8	742.5	313.0	235.5	218.3	202.9	190.5	179.3	178.1
47.5°	1318.8	1240.1	1128.3	702.3	258.6	221.3	210.6	188.7	177.5	170.4	170.4
50°	1462.0	1367.9	1202.2	641.4	226.6	210.6	199.4	181.0	172.2	166.3	166.3
52.5°	1584.4	1501.0	1263.2	568.6	206.5	201.8	191.7	177.5	168.0	162.7	162.1
55°	1703.4	1624.7	1317.6	496.4	189.9	189.9	189.9	174.5	163.9	159.2	158.6
57.5°	1821.7	1754.8	1374.4	449.1	175.1	179.9	186.4	171.0	160.3	156.2	155.6
60°	1955.4	1911.0	1440.1	415.9	162.1	169.2	181.6	166.8	154.4	150.9	150.3
62.5°	2097.4	2097.4	1499.8	369.2	150.3	160.3	174.5	161.5	149.1	146.1	145.5
65°	2208.6	2256.6	1538.3	299.4	138.4	151.5	166.3	154.4	142.0	141.4	140.2
67.5°	2221.7	2296.8	1514.0	226.0	127.8	142.0	158.0	146.7	134.9	134.9	133.1
70°	2128.2	2204.5	1438.3	169.2	120.1	132.5	147.3	137.3	126.0	127.2	124.2
72.5°	1972.0	1990.9	1250.2	133.7	111.2	122.5	134.3	126.6	116.6	116.6	112.4
75°	1766.1	1660.8	908.2	111.8	100.6	110.6	121.3	114.8	105.9	102.9	100.6
77.5°	1405.8	1203.4	527.8	96.4	91.7	99.4	106.5	101.8	94.1	87.6	87.6
80°	856.7	705.2	233.1	83.4	81.1	87.0	91.7	86.4	79.9	73.4	71.6
82.5°	326.0	272.2	113.0	71.6	71.0	74.5	78.1	72.8	68.0	65.1	56.2
85°	89.3	82.2	77.5	59.8	58.6	58.0	62.1	59.8	53.2	43.8	39.0
87.5°	33.7	38.5	42.0	36.7	39.0	36.1	41.4	37.9	33.7	21.9	19.5
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)