

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: P397703

Luminaire Tested: **ARCH-S-PA1-30-740-U-T3**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397703  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA1-30-740-U-T3  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4729 lumens  
Efficiency: N/A  
Efficacy: 152.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 31  
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

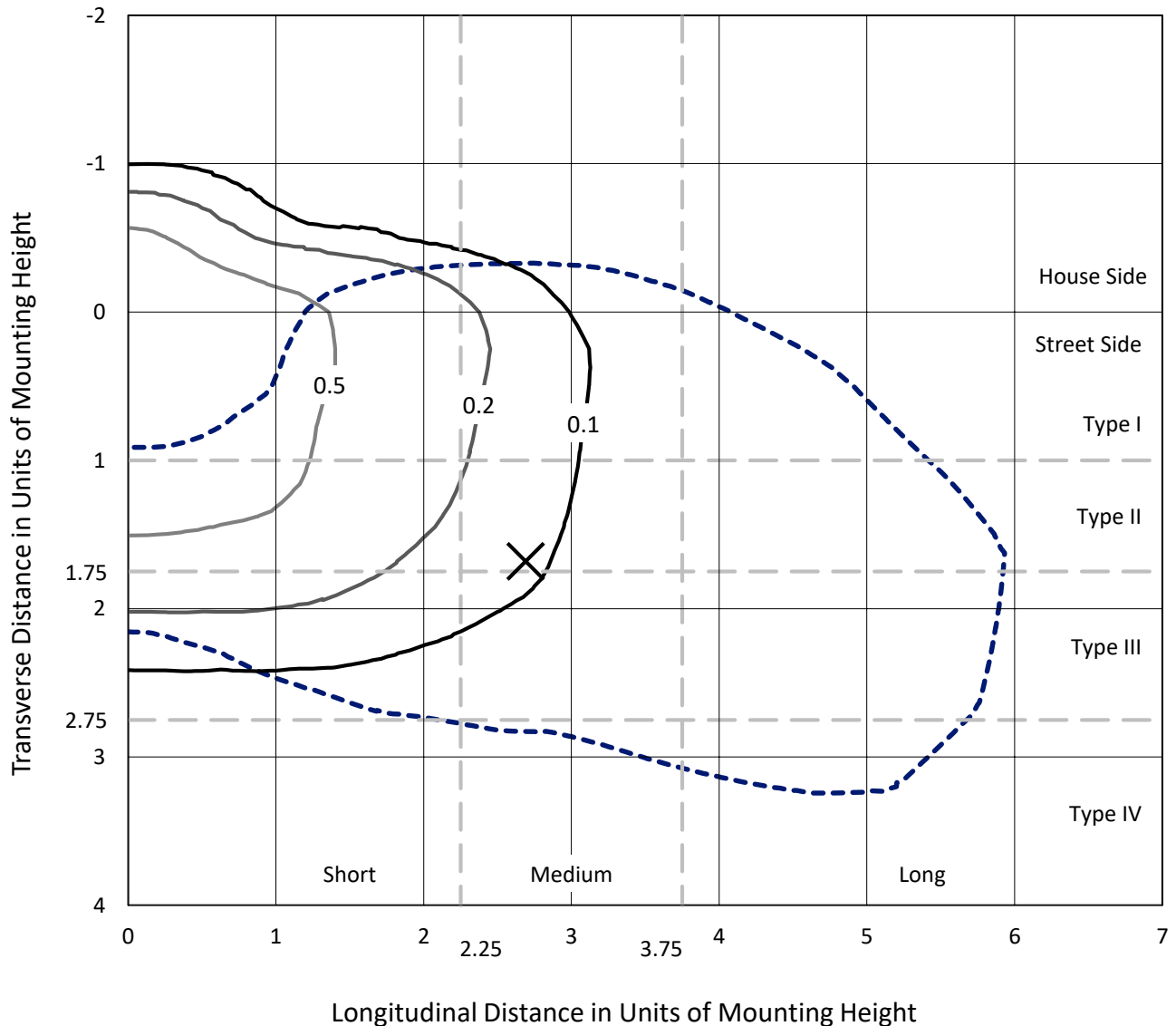


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

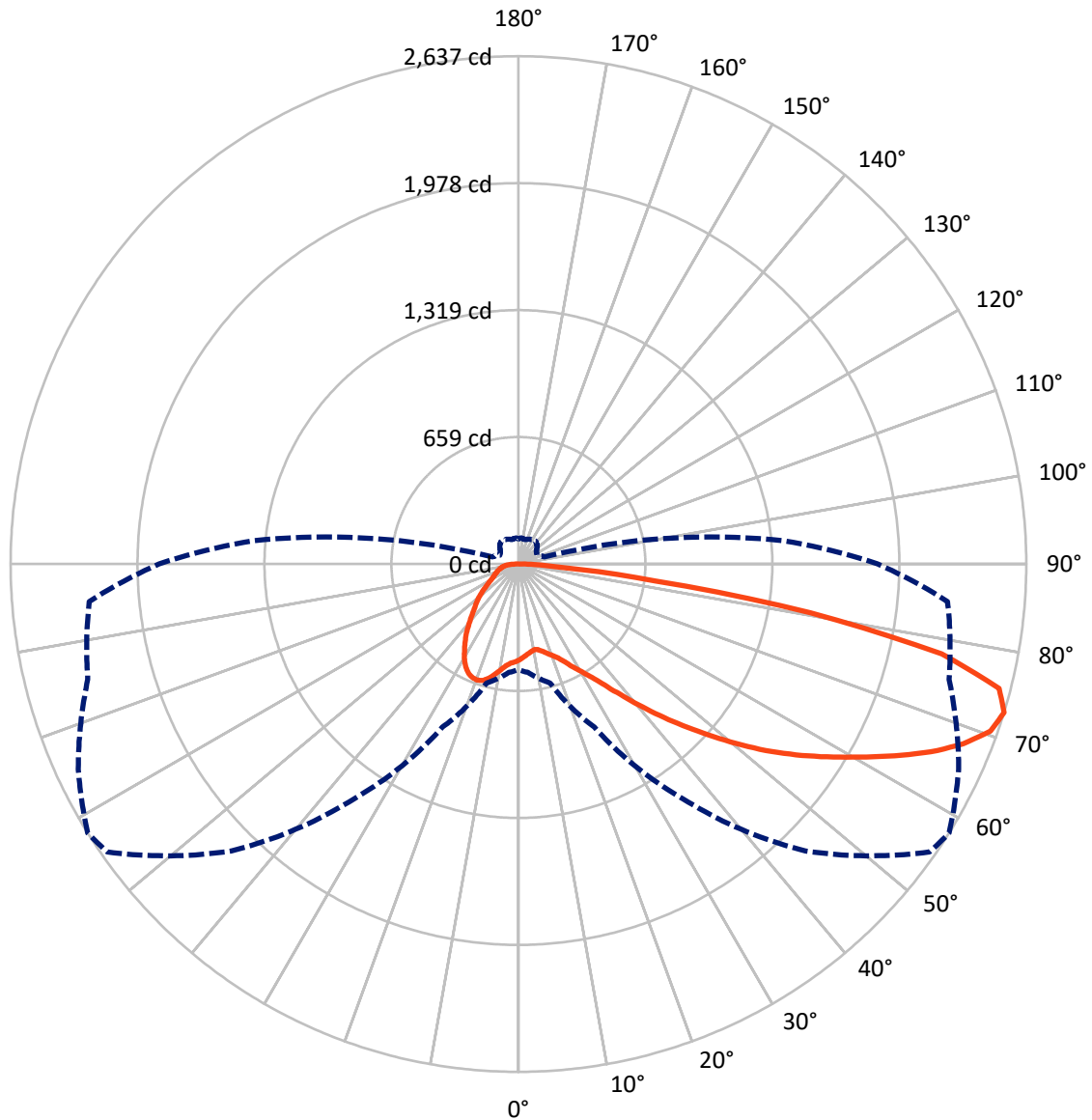


Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical



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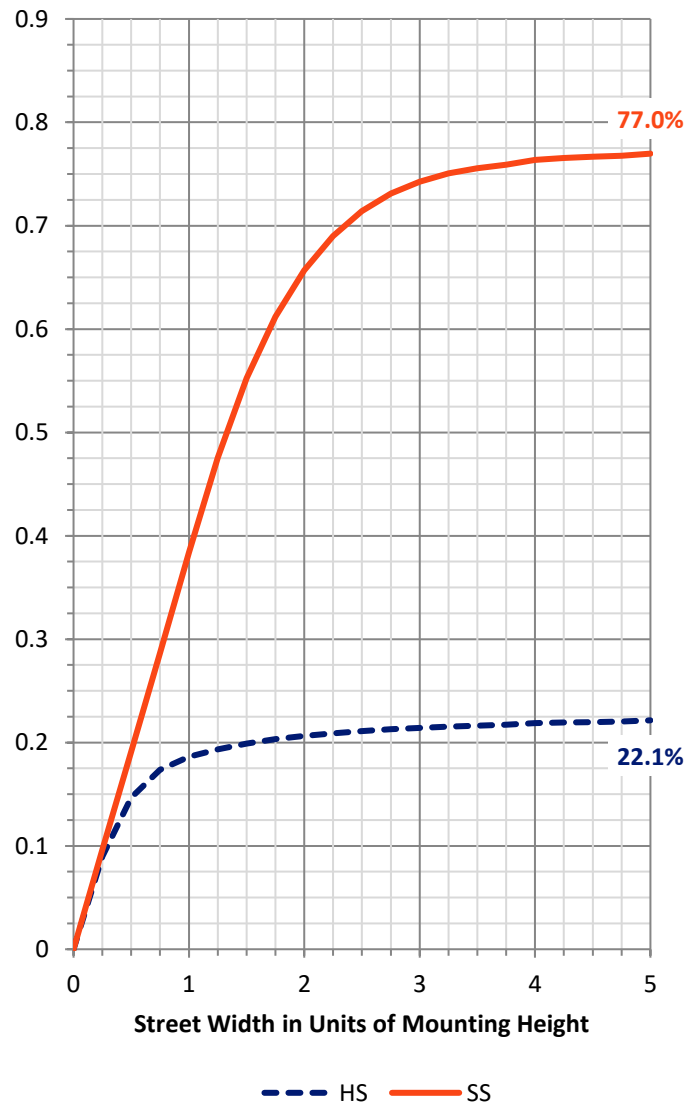
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1072.5	0.0	1072.5
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	3656.5	0.0	3656.5
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	4729.0	0.0	4729.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.1	1.0
10°-20°	152.6	3.2
20°-30°	273.4	5.8
30°-40°	411.2	8.7
40°-50°	665.9	14.1
50°-60°	1002.4	21.2
60°-70°	1179.7	24.9
70°-80°	836.5	17.7
80°-90°	159.4	3.4
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°	4729.0	100.0
0°-180°	4729.0	100.0

**Coefficient of Utilization**



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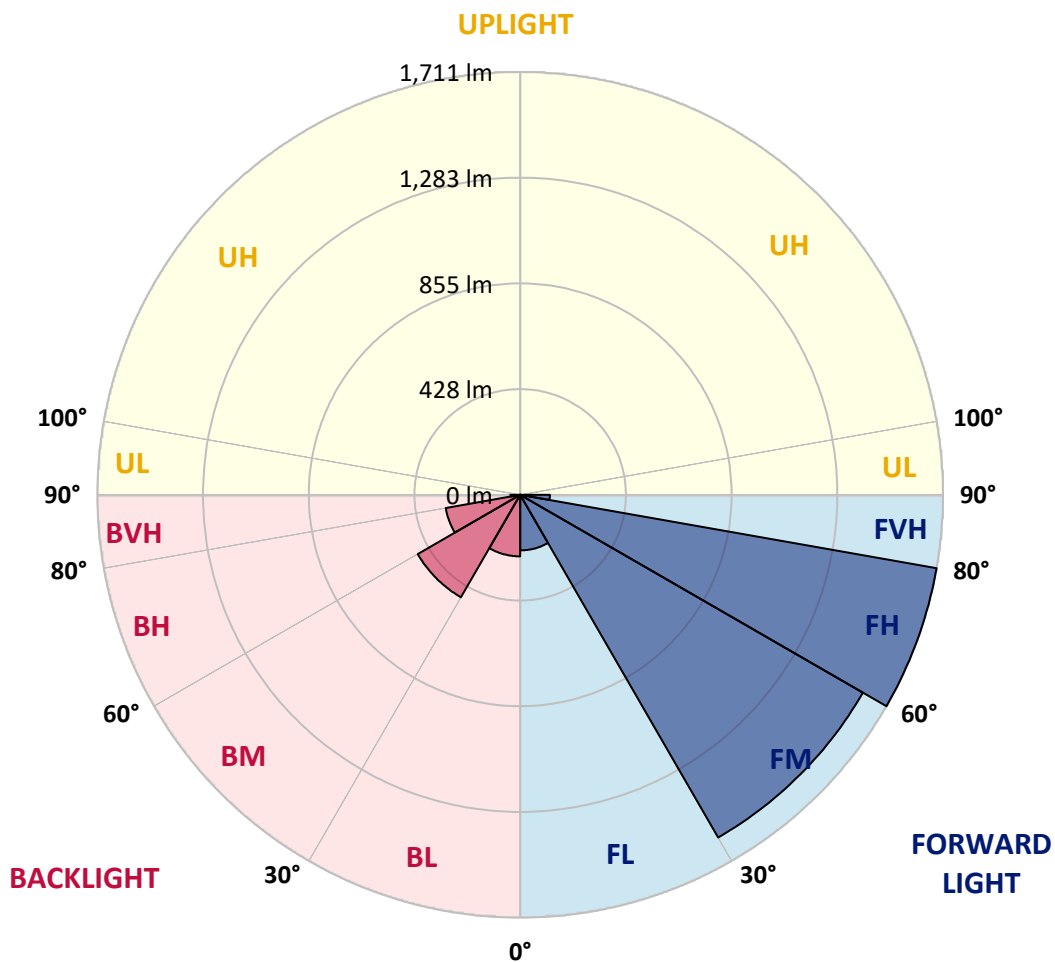
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	224.9	4.8			
FM (30°-60°)	1600.9	33.9			
FH (60°-80°)	1710.5	36.2			G1/1800
FVH (80°-90°)	120.2	2.5			G2/225
BL (0°-30°)	249.1	5.3	B1/500		
BM (30°-60°)	478.5	10.1	B1/1000		
BH (60°-80°)	305.7	6.5	B1/500		G1/500
BVH (80°-90°)	39.2	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8
2.5°	480.1	477.6	478.2	478.2	480.7	482.0	482.6	484.5	485.7	488.8	493.2
5°	457.6	455.7	456.4	457.0	461.4	465.7	469.5	472.0	475.7	480.7	486.9
7.5°	441.4	440.1	440.7	442.0	445.7	450.7	457.0	460.7	466.3	475.7	486.3
10°	429.5	429.5	430.1	432.6	436.4	442.6	447.6	452.0	463.2	480.1	496.3
12.5°	420.1	420.1	422.0	427.0	433.3	439.5	451.4	456.4	471.3	494.4	513.8
15°	419.5	420.1	420.8	425.1	432.0	445.7	463.2	470.7	488.8	516.3	538.8
17.5°	429.5	430.1	427.6	428.9	437.0	456.4	479.5	488.2	511.3	541.3	564.4
20°	460.1	460.1	452.6	445.7	451.4	472.6	498.8	507.5	533.1	566.2	589.3
22.5°	522.5	525.7	508.2	493.2	484.5	496.3	520.0	529.4	558.1	593.7	616.8
25°	598.1	601.2	577.5	556.2	540.0	538.1	553.7	563.7	587.5	624.3	643.6
27.5°	671.1	665.5	643.6	623.7	603.1	586.2	598.1	606.8	634.3	662.4	674.2
30°	728.5	724.2	703.0	688.6	669.2	647.4	640.5	649.9	672.4	698.6	704.8
32.5°	792.2	789.1	767.9	749.1	732.9	712.3	697.3	701.7	714.2	732.9	736.7
35°	873.4	880.3	857.8	819.7	801.6	781.6	771.0	772.2	781.6	793.5	787.2
37.5°	958.9	967.0	968.3	908.3	884.0	865.9	854.7	859.0	870.3	878.4	859.0
40°	1117.5	1109.4	1076.9	1032.6	995.1	977.6	962.0	961.4	969.5	983.9	948.9
42.5°	1327.9	1320.4	1254.8	1197.4	1138.1	1118.1	1087.5	1074.4	1078.2	1096.3	1047.6
45°	1529.5	1526.4	1474.0	1407.2	1336.0	1297.3	1227.4	1195.5	1192.4	1206.8	1148.7
47.5°	1708.7	1695.0	1656.9	1605.1	1597.6	1496.4	1367.8	1324.7	1309.8	1317.9	1253.0
50°	1900.3	1853.5	1801.1	1769.2	1823.6	1729.3	1509.5	1464.6	1427.8	1433.4	1365.9
52.5°	2002.1	1923.4	1889.1	1898.5	1971.5	1935.3	1663.7	1608.8	1549.5	1557.6	1478.3
55°	1914.7	1914.1	1929.1	1987.1	2088.9	2047.1	1810.4	1748.6	1683.7	1685.6	1607.6
57.5°	1794.8	1819.2	1896.6	2024.6	2234.3	2164.4	1954.7	1889.1	1829.8	1820.4	1754.3
60°	1685.6	1712.4	1824.8	2018.3	2284.9	2271.8	2092.0	2034.6	1986.5	1959.0	1908.5
62.5°	1519.5	1539.5	1698.7	1978.4	2242.5	2349.2	2231.2	2191.9	2155.7	2098.9	2074.5
65°	1324.1	1331.0	1498.9	1846.7	2189.4	2379.2	2369.8	2352.3	2317.4	2233.7	2238.7
67.5°	1112.5	1126.2	1273.6	1636.3	2073.3	2365.4	2477.2	2491.5	2450.3	2324.9	2343.6
70°	887.1	904.0	1015.7	1345.3	1876.0	2306.1	2576.5	2599.6	2520.3	2354.8	2362.9
72.5°	548.8	565.0	639.9	934.6	1487.1	2107.0	2607.0	2637.0	2522.1	2314.9	2236.8
75°	189.8	191.7	250.3	448.2	882.7	1590.7	2507.2	2577.7	2442.9	2169.4	1946.5
77.5°	86.8	89.9	111.1	184.8	391.4	858.4	2070.2	2246.8	2201.9	1942.2	1498.3
80°	59.9	61.2	76.8	110.5	226.0	302.2	1306.6	1537.0	1615.7	1503.9	960.2
82.5°	44.9	46.2	59.3	74.9	162.9	146.7	497.6	714.2	887.7	871.5	401.4
85°	43.1	42.5	46.2	49.9	108.6	87.4	161.1	221.0	346.5	296.5	101.1
87.5°	18.7	20.6	47.4	28.1	56.8	40.6	69.9	81.8	105.5	91.8	36.2
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°	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8
2.5°	495.1	496.3	500.1	505.7	508.8	515.0	519.4	521.9	523.8	524.4	524.4
5°	490.7	493.2	501.3	510.7	519.4	532.5	544.4	551.2	556.2	558.1	558.7
7.5°	491.9	498.2	510.0	523.8	535.0	551.9	566.2	580.0	591.2	595.6	595.6
10°	503.8	512.5	528.8	546.9	561.2	578.7	593.7	605.6	618.7	626.2	627.4
12.5°	521.9	532.5	553.7	573.7	590.0	603.7	617.4	626.2	632.4	638.0	639.3
15°	547.5	560.6	581.8	602.4	616.8	625.5	629.3	629.3	628.7	629.3	630.5
17.5°	573.1	585.6	606.8	627.4	634.3	629.3	624.9	623.7	623.0	621.8	622.4
20°	598.1	609.9	628.0	643.6	638.0	620.5	614.9	614.3	612.4	611.2	609.9
22.5°	623.0	631.8	646.8	652.4	629.9	604.9	598.1	594.3	591.8	588.7	585.6
25°	651.8	654.3	665.5	656.8	609.9	576.2	566.2	560.6	558.1	555.0	552.5
27.5°	678.6	678.6	680.5	649.9	580.6	538.1	523.2	513.2	512.5	511.9	511.3
30°	703.0	699.8	693.6	629.3	542.5	491.3	468.8	458.9	462.6	465.7	466.3
32.5°	731.7	725.4	707.9	601.2	496.9	438.9	411.4	407.0	411.4	415.2	412.7
35°	776.6	765.4	722.9	568.7	453.2	390.8	364.6	358.3	357.1	356.5	351.5
37.5°	840.9	821.6	734.8	533.8	410.2	348.4	329.0	315.9	304.0	291.5	289.7
40°	919.6	886.5	742.9	493.8	364.6	312.8	292.2	275.3	255.3	233.5	231.0
42.5°	1005.7	956.4	746.7	449.5	324.6	283.4	257.8	236.6	214.1	197.3	194.2
45°	1098.8	1032.0	743.5	407.0	292.2	258.5	229.7	206.6	188.5	176.7	174.2
47.5°	1189.3	1118.7	734.8	373.3	267.2	237.2	207.9	186.7	172.9	159.8	156.7
50°	1305.4	1201.8	724.2	347.1	239.7	216.0	194.2	171.7	156.1	149.8	148.6
52.5°	1434.0	1284.8	711.7	314.0	212.9	199.1	185.4	165.4	160.4	148.6	146.7
55°	1573.2	1383.4	709.2	272.2	189.2	187.3	176.7	171.1	172.3	148.6	145.5
57.5°	1719.9	1488.9	714.8	230.4	169.8	176.7	180.4	176.1	174.2	151.7	145.5
60°	1872.9	1590.7	698.0	191.7	154.8	167.9	184.8	173.6	159.8	150.5	146.1
62.5°	2021.5	1676.2	624.9	164.2	143.6	165.4	182.3	164.2	148.6	148.6	146.7
65°	2129.5	1714.3	488.8	144.2	136.1	162.3	177.9	157.9	145.5	149.8	147.3
67.5°	2141.9	1675.0	328.4	128.6	129.9	156.7	167.9	152.3	142.3	153.6	149.8
70°	2065.2	1572.6	201.0	116.7	121.7	146.7	159.2	146.7	138.0	150.5	144.8
72.5°	1866.0	1381.6	141.7	106.8	113.0	137.3	151.1	141.7	131.7	136.1	130.5
75°	1530.8	1070.7	112.4	97.4	104.3	128.6	144.2	134.2	124.2	122.4	118.6
77.5°	1084.4	686.1	90.5	89.9	94.9	118.0	134.8	125.5	115.5	111.7	109.3
80°	623.7	336.5	78.0	81.2	86.2	107.4	123.6	115.5	106.1	100.5	96.8
82.5°	238.5	117.4	68.7	70.5	76.2	96.1	112.4	105.5	96.1	101.1	84.9
85°	77.4	64.3	56.2	58.1	63.7	79.9	99.3	93.6	83.0	73.7	68.0
87.5°	34.3	35.0	30.0	33.1	40.0	53.1	72.4	68.7	60.6	50.6	48.7
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)