

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: P397739

Luminaire Tested: **ARCH-S-PA1-30-830-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397739
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-PA1-30-830-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3758 lumens
Efficiency: N/A
Efficacy: 121.2 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 - G1

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

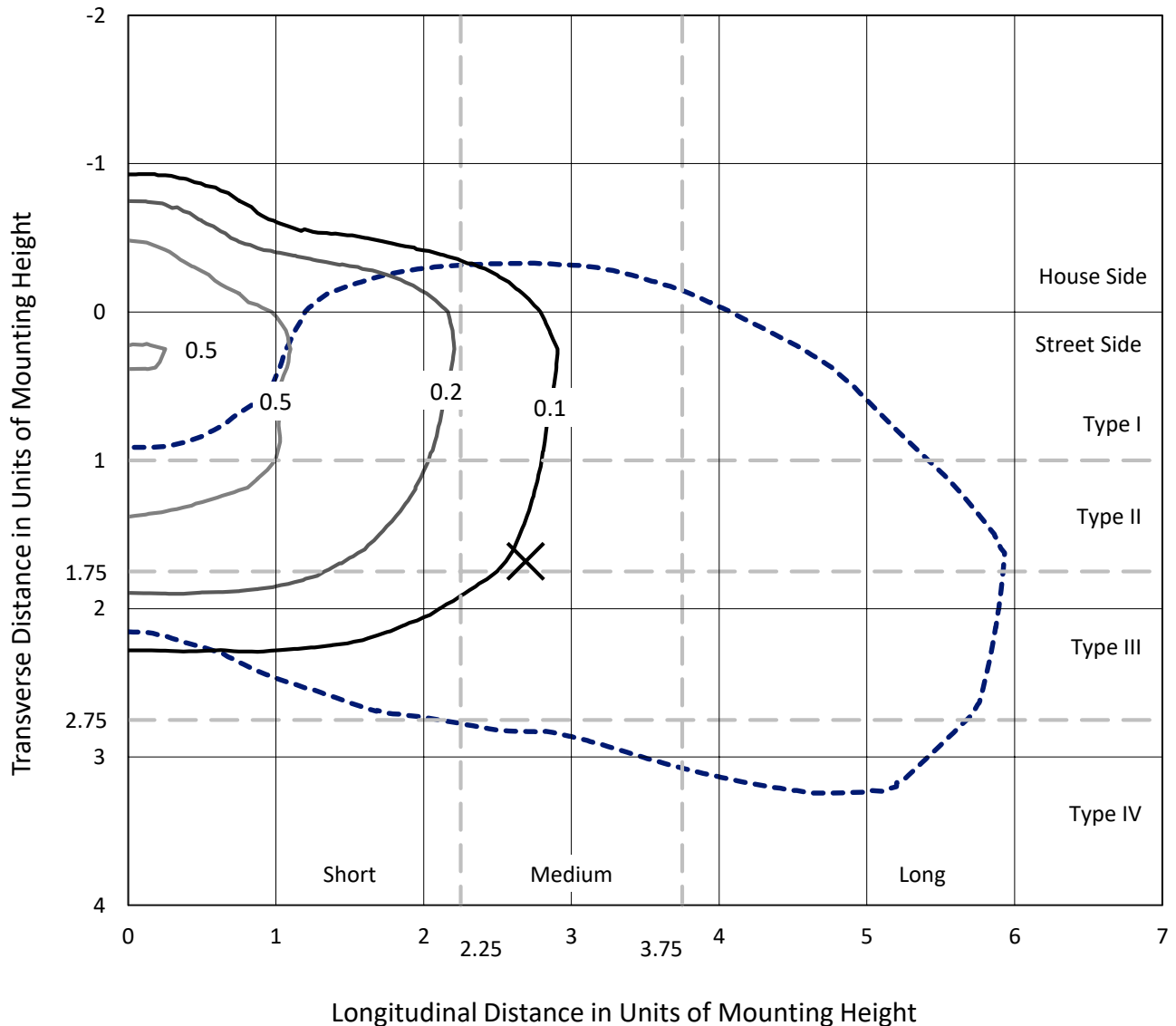


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

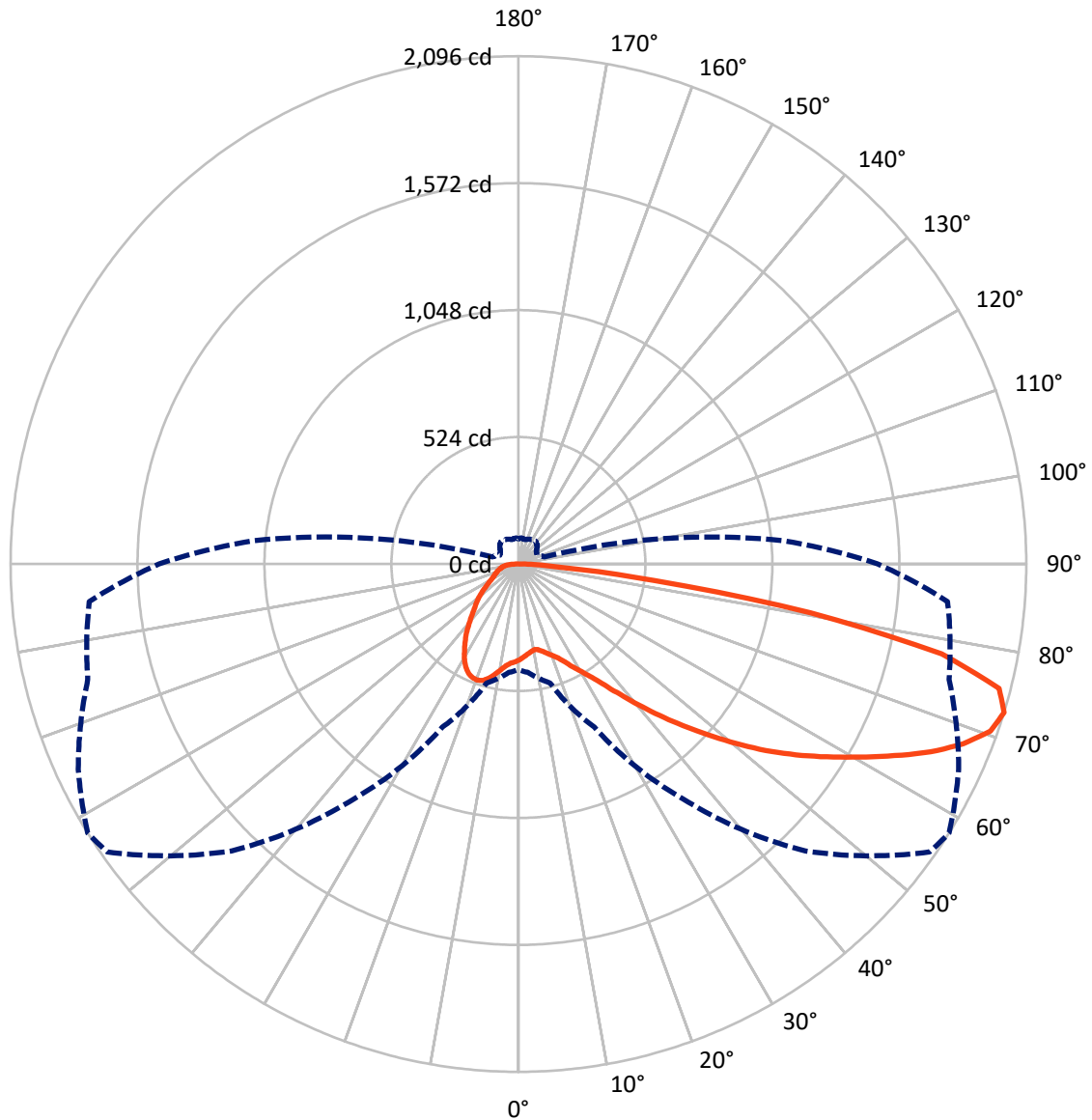


Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Medium - Non-Cutoff

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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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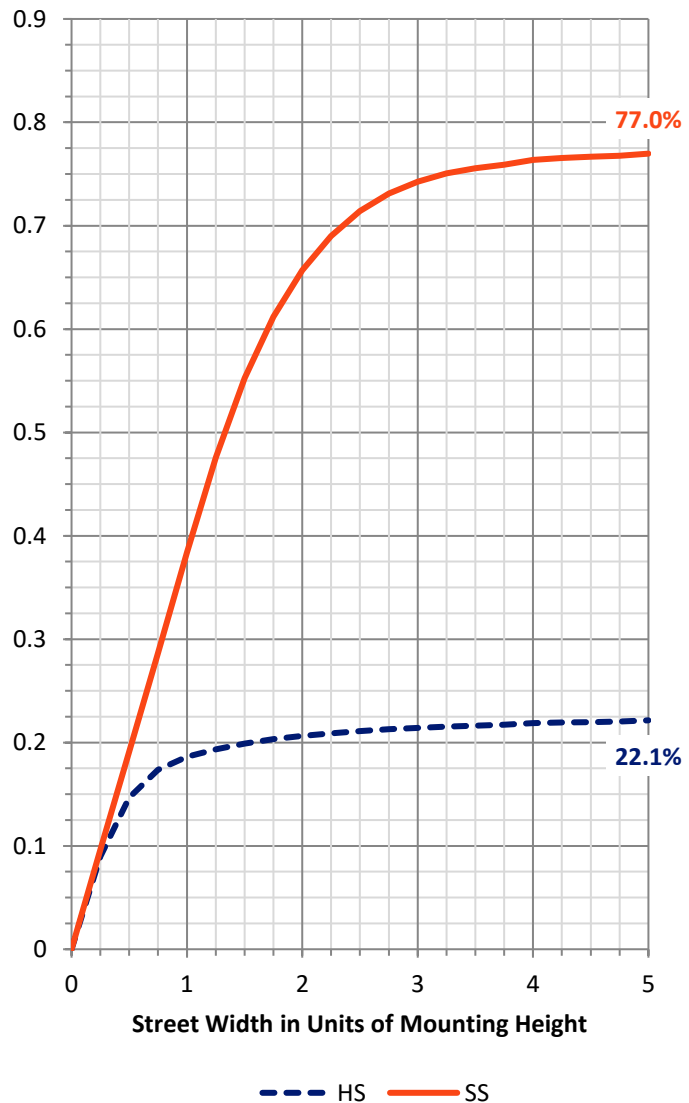
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	852.3	0.0	852.3
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	2905.7	0.0	2905.7
	% Fixture	77.3	0.0	77.3
Total	Lumens	3758.0	0.0	3758.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.2	1.0
10°-20°	121.3	3.2
20°-30°	217.2	5.8
30°-40°	326.8	8.7
40°-50°	529.2	14.1
50°-60°	796.5	21.2
60°-70°	937.5	24.9
70°-80°	664.7	17.7
80°-90°	126.7	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°	3758.0	100.0
0°-180°	3758.0	100.0

Coefficient of Utilization



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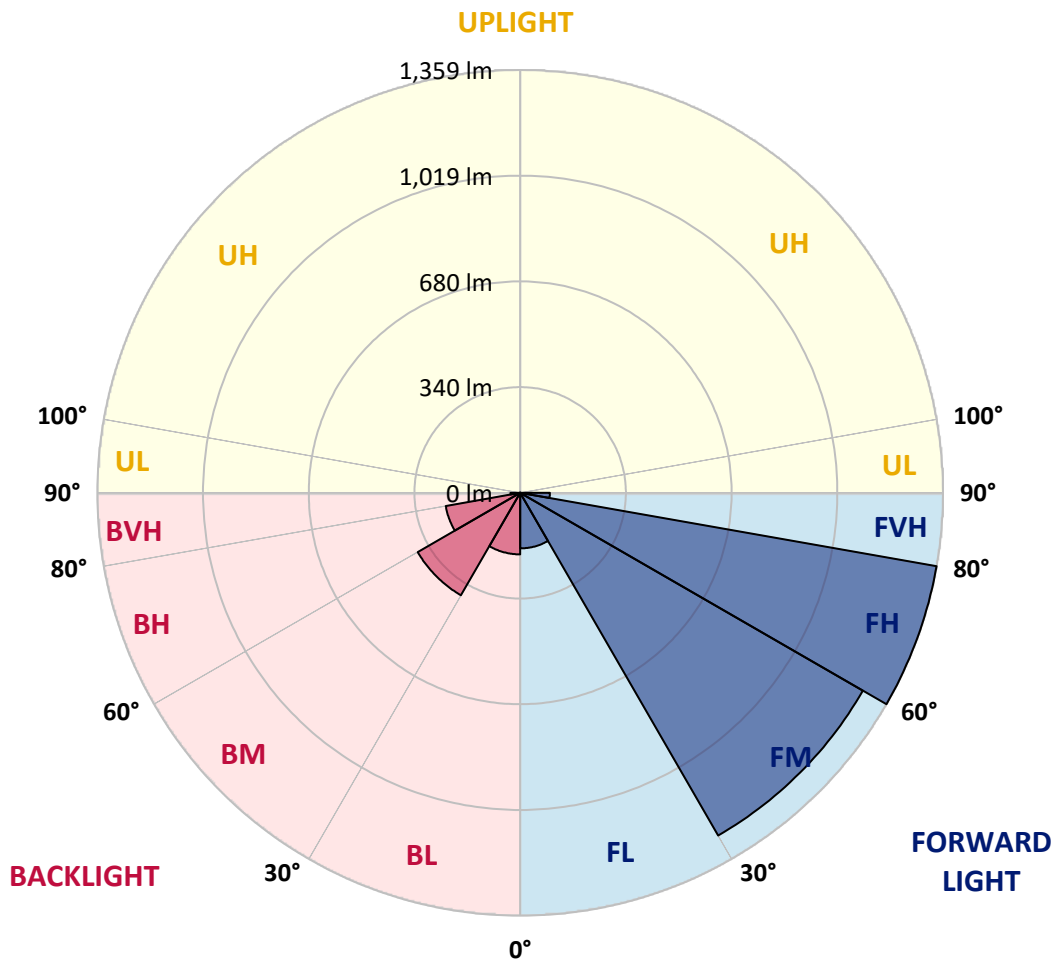
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	178.7	4.8			
FM (30°-60°)	1272.2	33.9			
FH (60°-80°)	1359.3	36.2			G1/1800
FVH (80°-90°)	95.5	2.5			G1/100
BL (0°-30°)	198.0	5.3	B1/500		
BM (30°-60°)	380.3	10.1	B1/1000		
BH (60°-80°)	242.9	6.5	B1/500		G1/500
BVH (80°-90°)	31.1	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4
2.5°	381.5	379.5	380.0	380.0	382.0	383.0	383.5	385.0	386.0	388.5	391.9
5°	363.6	362.2	362.7	363.1	366.6	370.1	373.1	375.1	378.0	382.0	387.0
7.5°	350.7	349.8	350.3	351.2	354.2	358.2	363.1	366.1	370.6	378.0	386.5
10°	341.3	341.3	341.8	343.8	346.8	351.7	355.7	359.2	368.1	381.5	394.4
12.5°	333.9	333.9	335.4	339.3	344.3	349.3	358.7	362.7	374.6	392.9	408.3
15°	333.4	333.9	334.4	337.8	343.3	354.2	368.1	374.1	388.5	410.3	428.1
17.5°	341.3	341.8	339.8	340.8	347.3	362.7	381.0	388.0	406.3	430.1	448.5
20°	365.6	365.6	359.7	354.2	358.7	375.6	396.4	403.3	423.7	450.0	468.3
22.5°	415.2	417.7	403.8	391.9	385.0	394.4	413.3	420.7	443.5	471.8	490.2
25°	475.3	477.8	458.9	442.0	429.1	427.6	440.0	448.0	466.8	496.1	511.5
27.5°	533.3	528.8	511.5	495.6	479.2	465.8	475.3	482.2	504.0	526.4	535.8
30°	579.0	575.5	558.6	547.2	531.8	514.5	509.0	516.4	534.3	555.1	560.1
32.5°	629.6	627.1	610.2	595.3	582.4	566.1	554.2	557.6	567.5	582.4	585.4
35°	694.1	699.5	681.7	651.4	637.0	621.1	612.7	613.7	621.1	630.6	625.6
37.5°	762.0	768.5	769.5	721.8	702.5	688.1	679.2	682.6	691.6	698.0	682.6
40°	888.0	881.6	855.8	820.6	790.8	776.9	764.5	764.0	770.5	781.9	754.1
42.5°	1055.2	1049.3	997.2	951.5	904.4	888.5	864.2	853.8	856.8	871.2	832.5
45°	1215.5	1213.0	1171.3	1118.2	1061.7	1030.9	975.3	950.0	947.6	959.0	912.8
47.5°	1357.8	1346.9	1316.7	1275.5	1269.5	1189.2	1087.0	1052.7	1040.8	1047.3	995.7
50°	1510.1	1472.9	1431.3	1406.0	1449.1	1374.2	1199.6	1163.9	1134.6	1139.1	1085.5
52.5°	1591.0	1528.5	1501.2	1508.7	1566.7	1537.9	1322.1	1278.5	1231.3	1237.8	1174.8
55°	1521.6	1521.1	1533.0	1579.1	1660.0	1626.7	1438.7	1389.6	1338.0	1339.5	1277.5
57.5°	1426.3	1445.7	1507.2	1608.9	1775.6	1720.0	1553.3	1501.2	1454.1	1446.6	1394.1
60°	1339.5	1360.8	1450.1	1603.9	1815.7	1805.3	1662.5	1616.8	1578.6	1556.8	1516.6
62.5°	1207.5	1223.4	1349.9	1572.2	1782.0	1866.8	1773.1	1741.8	1713.1	1667.9	1648.6
65°	1052.2	1057.7	1191.2	1467.5	1739.8	1890.7	1883.2	1869.3	1841.5	1775.1	1779.0
67.5°	884.1	895.0	1012.1	1300.3	1647.6	1879.7	1968.6	1980.0	1947.2	1847.5	1862.4
70°	705.0	718.4	807.2	1069.1	1490.8	1832.6	2047.4	2065.8	2002.8	1871.3	1877.8
72.5°	436.1	449.0	508.5	742.7	1181.7	1674.4	2071.7	2095.6	2004.3	1839.6	1777.5
75°	150.8	152.3	198.9	356.2	701.5	1264.1	1992.4	2048.4	1941.3	1724.0	1546.9
77.5°	69.0	71.4	88.3	146.8	311.1	682.1	1645.1	1785.5	1749.8	1543.4	1190.7
80°	47.6	48.6	61.0	87.8	179.6	240.1	1038.4	1221.4	1283.9	1195.1	763.0
82.5°	35.7	36.7	47.1	59.5	129.5	116.6	395.4	567.5	705.5	692.6	319.0
85°	34.2	33.7	36.7	39.7	86.3	69.5	128.0	175.6	275.3	235.7	80.4
87.5°	14.9	16.4	37.7	22.3	45.1	32.2	55.6	65.0	83.8	72.9	28.8
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°	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4	396.4
2.5°	393.4	394.4	397.4	401.8	404.3	409.3	412.8	414.7	416.2	416.7	416.7
5°	389.9	391.9	398.4	405.8	412.8	423.2	432.6	438.1	442.0	443.5	444.0
7.5°	390.9	395.9	405.3	416.2	425.2	438.6	450.0	460.9	469.8	473.3	473.3
10°	400.4	407.3	420.2	434.6	446.0	459.9	471.8	481.2	491.6	497.6	498.6
12.5°	414.7	423.2	440.0	455.9	468.8	479.7	490.6	497.6	502.6	507.0	508.0
15°	435.1	445.5	462.4	478.7	490.2	497.1	500.1	500.1	499.6	500.1	501.1
17.5°	455.4	465.3	482.2	498.6	504.0	500.1	496.6	495.6	495.1	494.1	494.6
20°	475.3	484.7	499.1	511.5	507.0	493.1	488.7	488.2	486.7	485.7	484.7
22.5°	495.1	502.1	514.0	518.4	500.6	480.7	475.3	472.3	470.3	467.8	465.3
25°	517.9	519.9	528.8	521.9	484.7	457.9	450.0	445.5	443.5	441.0	439.1
27.5°	539.3	539.3	540.8	516.4	461.4	427.6	415.7	407.8	407.3	406.8	406.3
30°	558.6	556.1	551.2	500.1	431.1	390.4	372.6	364.6	367.6	370.1	370.6
32.5°	581.4	576.5	562.6	477.8	394.9	348.8	326.9	323.5	326.9	329.9	327.9
35°	617.2	608.2	574.5	452.0	360.2	310.6	289.7	284.8	283.8	283.3	279.3
37.5°	668.3	652.9	583.9	424.2	325.9	276.8	261.4	251.0	241.6	231.7	230.2
40°	730.8	704.5	590.4	392.4	289.7	248.5	232.2	218.8	202.9	185.5	183.6
42.5°	799.2	760.0	593.3	357.2	258.0	225.2	204.9	188.0	170.2	156.8	154.3
45°	873.1	820.1	590.9	323.5	232.2	205.4	182.6	164.2	149.8	140.4	138.4
47.5°	945.1	889.0	583.9	296.7	212.3	188.5	165.2	148.3	137.4	127.0	124.5
50°	1037.4	955.0	575.5	275.8	190.5	171.7	154.3	136.4	124.0	119.1	118.1
52.5°	1139.6	1021.0	565.6	249.5	169.2	158.3	147.3	131.5	127.5	118.1	116.6
55°	1250.2	1099.4	563.6	216.3	150.3	148.8	140.4	135.9	136.9	118.1	115.6
57.5°	1366.8	1183.2	568.0	183.1	134.9	140.4	143.4	139.9	138.4	120.6	115.6
60°	1488.3	1264.1	554.6	152.3	123.0	133.5	146.8	137.9	127.0	119.6	116.1
62.5°	1606.4	1332.0	496.6	130.5	114.1	131.5	144.9	130.5	118.1	118.1	116.6
65°	1692.2	1362.3	388.5	114.6	108.2	129.0	141.4	125.5	115.6	119.1	117.1
67.5°	1702.1	1331.1	261.0	102.2	103.2	124.5	133.5	121.0	113.1	122.0	119.1
70°	1641.1	1249.7	159.7	92.8	96.7	116.6	126.5	116.6	109.6	119.6	115.1
72.5°	1482.9	1097.9	112.6	84.8	89.8	109.1	120.1	112.6	104.7	108.2	103.7
75°	1216.5	850.8	89.3	77.4	82.8	102.2	114.6	106.7	98.7	97.2	94.3
77.5°	861.7	545.2	71.9	71.4	75.4	93.8	107.2	99.7	91.8	88.8	86.8
80°	495.6	267.4	62.0	64.5	68.5	85.3	98.2	91.8	84.3	79.9	76.9
82.5°	189.5	93.3	54.6	56.1	60.5	76.4	89.3	83.8	76.4	80.4	67.5
85°	61.5	51.1	44.6	46.1	50.6	63.5	78.9	74.4	66.0	58.5	54.1
87.5°	27.3	27.8	23.8	26.3	31.8	42.2	57.5	54.6	48.1	40.2	38.7
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)