

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: P397676

Luminaire Tested: **ARCH-S-PA1-30-722-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397676
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-PA1-30-722-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3476 lumens
Efficiency: N/A
Efficacy: 112.1 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

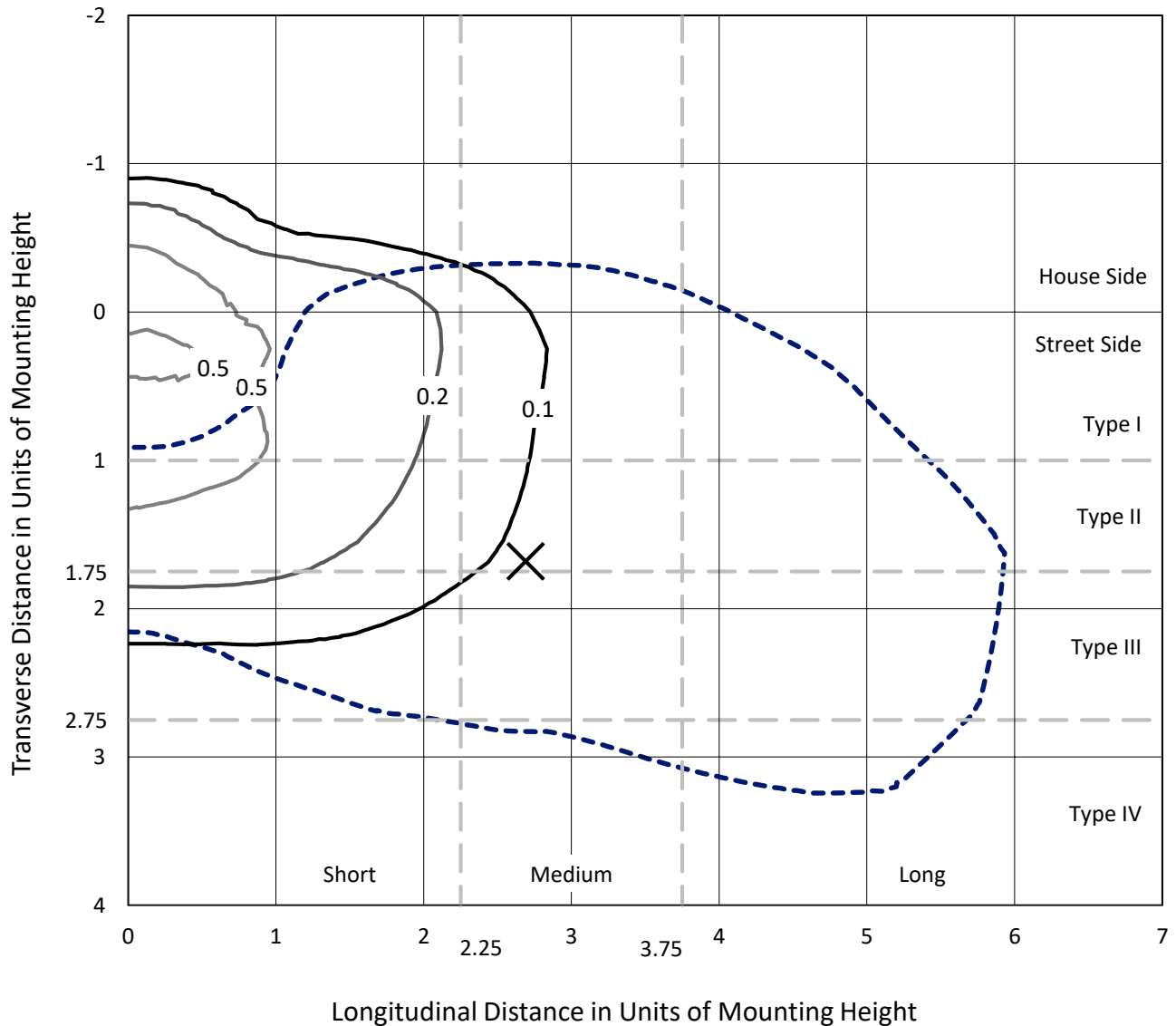


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

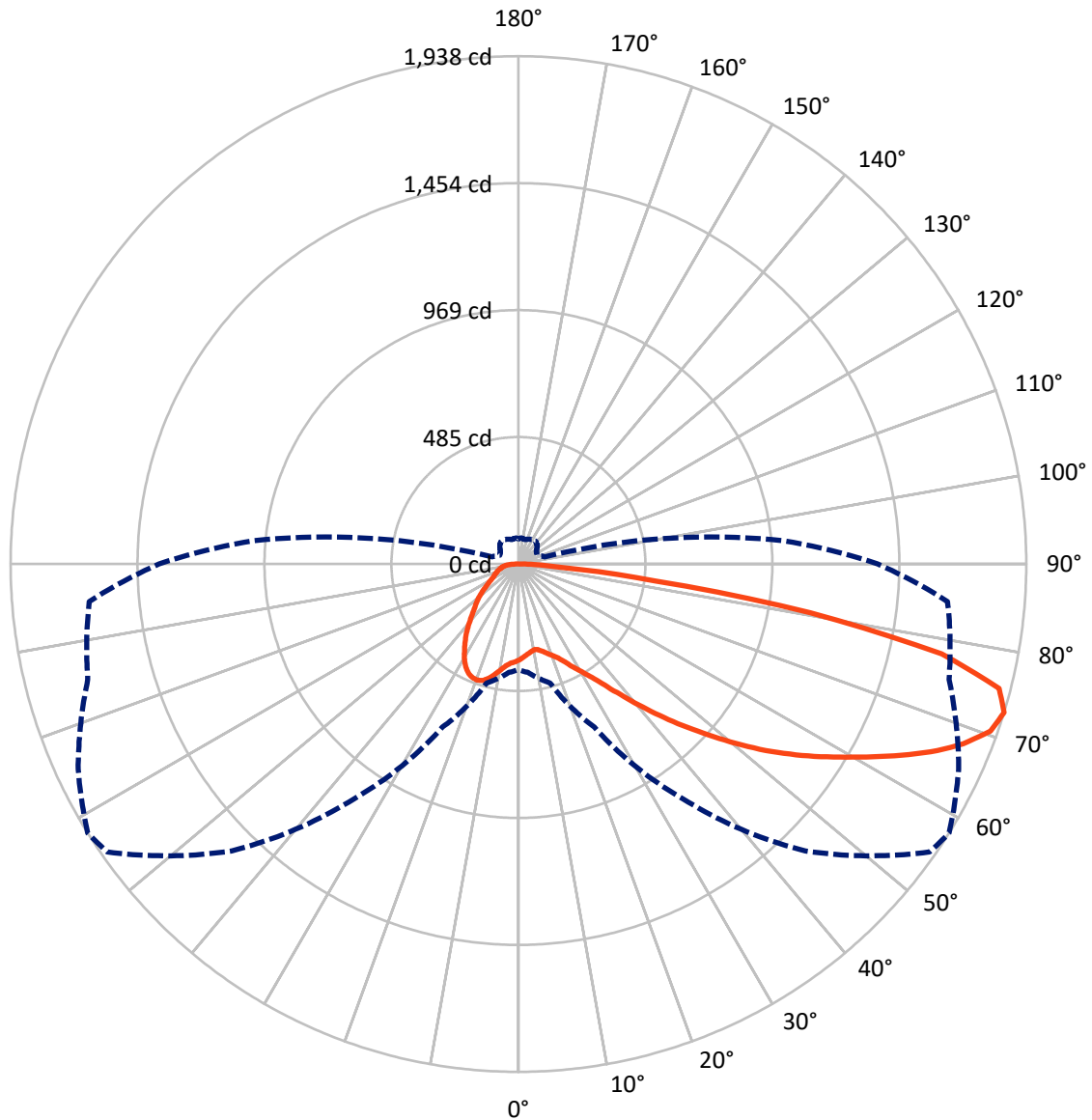


Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Medium - Non-Cutoff

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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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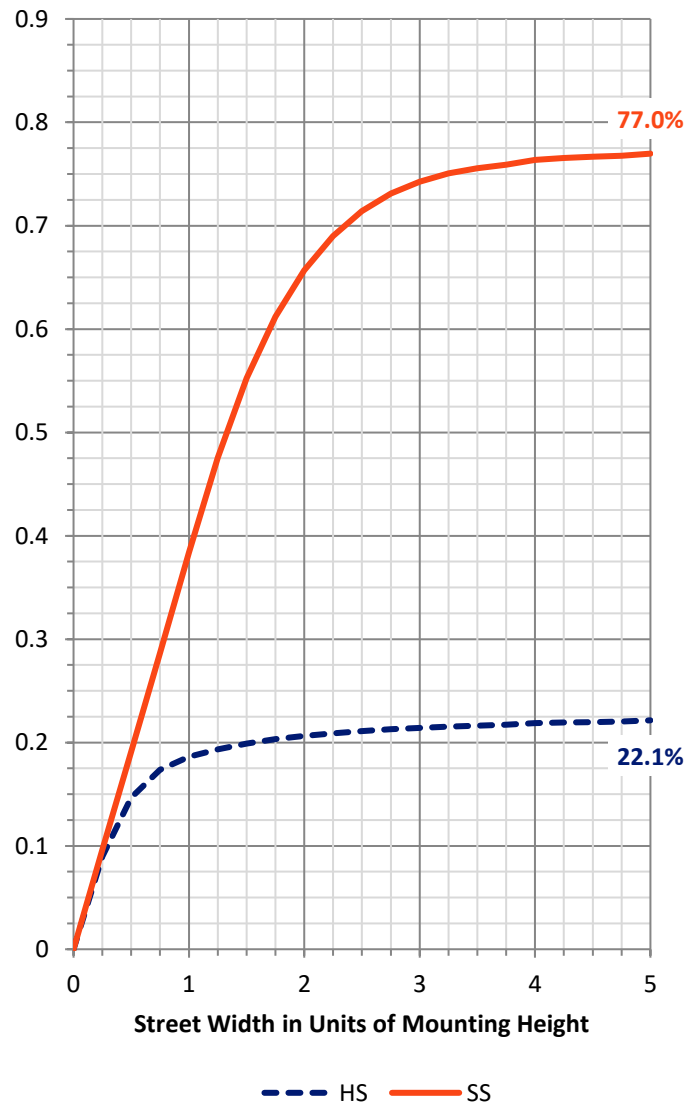
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	788.3	0.0	788.3
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	2687.7	0.0	2687.7
	% Fixture	77.3	0.0	77.3
Total	Lumens	3476.0	0.0	3476.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	1.0
10°-20°	112.2	3.2
20°-30°	200.9	5.8
30°-40°	302.2	8.7
40°-50°	489.4	14.1
50°-60°	736.8	21.2
60°-70°	867.1	24.9
70°-80°	614.9	17.7
80°-90°	117.2	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°	3476.0	100.0
0°-180°	3476.0	100.0



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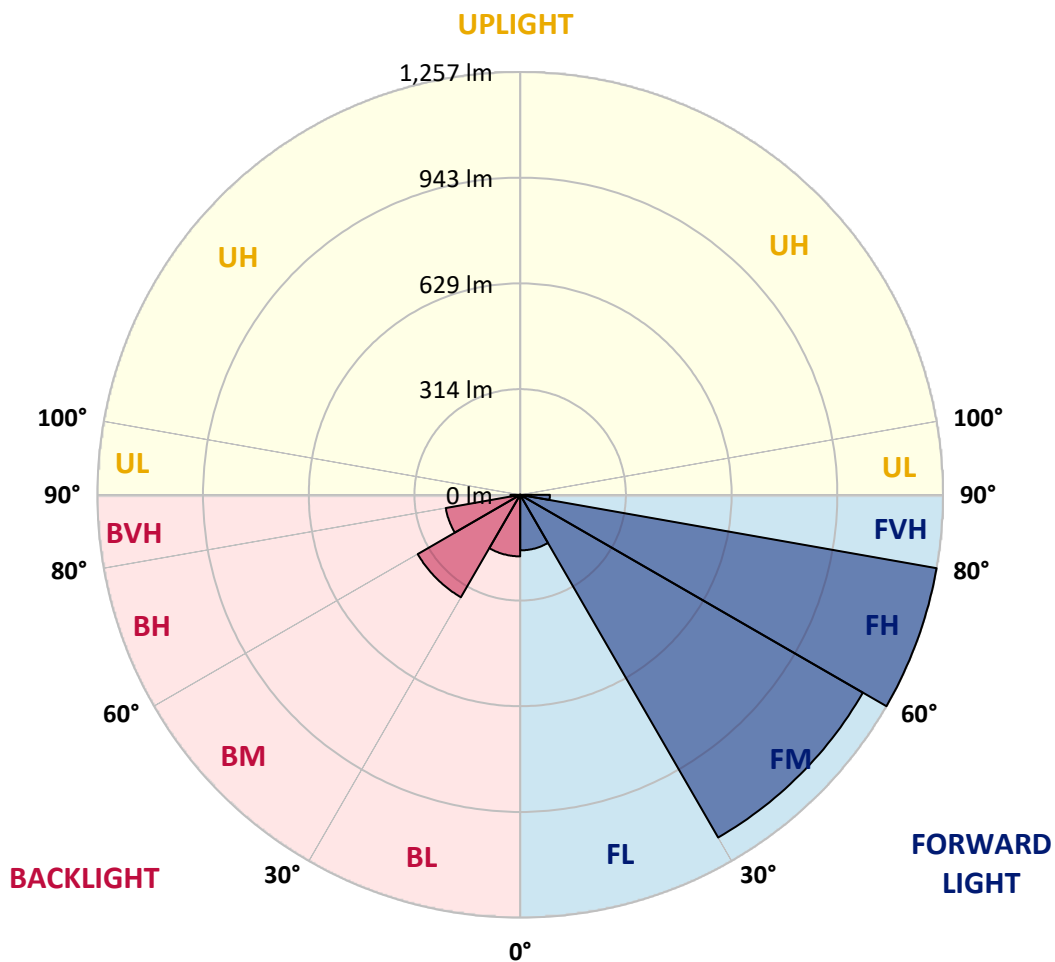
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	165.3	4.8			
FM	(30°-60°)	1176.7	33.9			
FH	(60°-80°)	1257.3	36.2			G1/1800
FVH	(80°-90°)	88.4	2.5			G1/100
BL	(0°-30°)	183.1	5.3	B1/500		
BM	(30°-60°)	351.7	10.1	B1/1000		
BH	(60°-80°)	224.7	6.5	B1/500		G1/500
BVH	(80°-90°)	28.8	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	366.6	366.6	366.6	366.6	366.6	366.6	366.6	366.6	366.6	366.6	366.6
2.5°	352.9	351.0	351.5	351.5	353.3	354.3	354.7	356.1	357.0	359.3	362.5
5°	336.4	335.0	335.4	335.9	339.1	342.3	345.1	346.9	349.7	353.3	357.9
7.5°	324.4	323.5	324.0	324.9	327.6	331.3	335.9	338.7	342.8	349.7	357.5
10°	315.7	315.7	316.2	318.0	320.8	325.3	329.0	332.2	340.5	352.9	364.8
12.5°	308.8	308.8	310.2	313.9	318.5	323.1	331.8	335.4	346.5	363.4	377.7
15°	308.4	308.8	309.3	312.5	317.5	327.6	340.5	346.0	359.3	379.5	396.0
17.5°	315.7	316.2	314.3	315.2	321.2	335.4	352.4	358.8	375.8	397.8	414.8
20°	338.2	338.2	332.7	327.6	331.8	347.4	366.6	373.1	391.9	416.2	433.2
22.5°	384.1	386.4	373.5	362.5	356.1	364.8	382.2	389.1	410.2	436.4	453.4
25°	439.6	441.9	424.5	408.9	396.9	395.6	407.0	414.4	431.8	458.9	473.1
27.5°	493.3	489.2	473.1	458.4	443.3	430.9	439.6	446.0	466.2	486.9	495.6
30°	535.5	532.3	516.7	506.1	491.9	475.9	470.8	477.7	494.2	513.5	518.1
32.5°	582.3	580.0	564.4	550.7	538.7	523.6	512.6	515.8	525.0	538.7	541.5
35°	642.0	647.0	630.5	602.5	589.2	574.5	566.7	567.6	574.5	583.2	578.6
37.5°	704.8	710.8	711.7	667.7	649.8	636.5	628.2	631.4	639.7	645.6	631.4
40°	821.4	815.4	791.6	759.0	731.5	718.6	707.1	706.7	712.6	723.2	697.5
42.5°	976.0	970.5	922.3	880.1	836.5	821.9	799.4	789.7	792.5	805.8	770.0
45°	1124.3	1122.0	1083.4	1034.3	982.0	953.5	902.2	878.8	876.5	887.0	844.3
47.5°	1256.0	1245.9	1217.9	1179.8	1174.3	1099.9	1005.4	973.7	962.7	968.7	921.0
50°	1396.8	1362.4	1323.9	1300.5	1340.4	1271.1	1109.6	1076.5	1049.5	1053.6	1004.0
52.5°	1471.6	1413.8	1388.6	1395.5	1449.1	1422.5	1222.9	1182.5	1138.9	1144.9	1086.6
55°	1407.4	1406.9	1417.9	1460.6	1535.4	1504.7	1330.7	1285.3	1237.6	1239.0	1181.6
57.5°	1319.3	1337.2	1394.1	1488.1	1642.3	1590.9	1436.7	1388.6	1345.0	1338.1	1289.4
60°	1239.0	1258.7	1341.3	1483.6	1679.5	1669.9	1537.7	1495.5	1460.2	1440.0	1402.8
62.5°	1116.9	1131.6	1248.6	1454.2	1648.3	1726.8	1640.0	1611.1	1584.5	1542.8	1524.9
65°	973.3	978.3	1101.8	1357.4	1609.3	1748.8	1741.9	1729.1	1703.4	1641.9	1645.5
67.5°	817.7	827.8	936.1	1202.7	1523.9	1738.7	1820.8	1831.4	1801.1	1708.9	1722.6
70°	652.1	664.5	746.6	988.9	1378.9	1695.1	1893.8	1910.8	1852.5	1730.9	1736.9
72.5°	403.4	415.3	470.4	686.9	1093.0	1548.7	1916.3	1938.3	1853.9	1701.5	1644.2
75°	139.5	140.9	184.0	329.5	648.9	1169.2	1842.9	1894.7	1795.6	1594.6	1430.8
77.5°	63.8	66.1	81.7	135.8	287.7	631.0	1521.6	1651.5	1618.5	1427.6	1101.3
80°	44.1	45.0	56.4	81.2	166.1	222.1	960.4	1129.8	1187.6	1105.4	705.8
82.5°	33.0	34.0	43.6	55.1	119.8	107.8	365.7	525.0	652.5	640.6	295.1
85°	31.7	31.2	34.0	36.7	79.8	64.2	118.4	162.4	254.7	218.0	74.3
87.5°	13.8	15.1	34.9	20.6	41.8	29.8	51.4	60.1	77.6	67.5	26.6
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°	366.6	366.6	366.6	366.6	366.6	366.6	366.6	366.6	366.6	366.6	366.6
2.5°	363.9	364.8	367.6	371.7	374.0	378.6	381.8	383.6	385.0	385.5	385.5
5°	360.7	362.5	368.5	375.4	381.8	391.4	400.1	405.2	408.9	410.2	410.7
7.5°	361.6	366.2	374.9	385.0	393.3	405.6	416.2	426.3	434.6	437.8	437.8
10°	370.3	376.7	388.7	402.0	412.5	425.4	436.4	445.1	454.7	460.3	461.2
12.5°	383.6	391.4	407.0	421.7	433.6	443.7	453.8	460.3	464.8	469.0	469.9
15°	402.4	412.1	427.7	442.8	453.4	459.8	462.5	462.5	462.1	462.5	463.5
17.5°	421.3	430.4	446.0	461.2	466.2	462.5	459.3	458.4	458.0	457.0	457.5
20°	439.6	448.3	461.6	473.1	469.0	456.1	452.0	451.5	450.2	449.2	448.3
22.5°	458.0	464.4	475.4	479.5	463.0	444.7	439.6	436.9	435.0	432.7	430.4
25°	479.1	480.9	489.2	482.7	448.3	423.5	416.2	412.1	410.2	407.9	406.1
27.5°	498.8	498.8	500.2	477.7	426.8	395.6	384.5	377.2	376.7	376.3	375.8
30°	516.7	514.4	509.8	462.5	398.8	361.1	344.6	337.3	340.0	342.3	342.8
32.5°	537.8	533.2	520.4	441.9	365.3	322.6	302.4	299.2	302.4	305.2	303.3
35°	570.8	562.6	531.4	418.0	333.1	287.3	268.0	263.4	262.5	262.0	258.3
37.5°	618.1	603.9	540.1	392.3	301.5	256.1	241.8	232.2	223.5	214.3	212.9
40°	675.9	651.6	546.1	363.0	268.0	229.9	214.8	202.4	187.7	171.6	169.8
42.5°	739.3	703.0	548.8	330.4	238.6	208.3	189.5	173.9	157.4	145.0	142.7
45°	807.6	758.5	546.5	299.2	214.8	190.0	168.9	151.9	138.6	129.9	128.0
47.5°	874.2	822.3	540.1	274.4	196.4	174.4	152.8	137.2	127.1	117.5	115.2
50°	959.5	883.3	532.3	255.1	176.2	158.8	142.7	126.2	114.7	110.1	109.2
52.5°	1054.0	944.4	523.1	230.8	156.5	146.4	136.3	121.6	117.9	109.2	107.8
55°	1156.4	1016.9	521.3	200.1	139.0	137.7	129.9	125.7	126.7	109.2	106.9
57.5°	1264.2	1094.4	525.4	169.3	124.8	129.9	132.6	129.4	128.0	111.5	106.9
60°	1376.6	1169.2	513.0	140.9	113.8	123.4	135.8	127.6	117.5	110.6	107.4
62.5°	1485.8	1232.1	459.3	120.7	105.5	121.6	134.0	120.7	109.2	109.2	107.8
65°	1565.2	1260.1	359.3	106.0	100.0	119.3	130.8	116.1	106.9	110.1	108.3
67.5°	1574.4	1231.2	241.4	94.5	95.4	115.2	123.4	112.0	104.6	112.9	110.1
70°	1518.0	1155.9	147.8	85.8	89.5	107.8	117.0	107.8	101.4	110.6	106.5
72.5°	1371.6	1015.5	104.2	78.5	83.1	101.0	111.0	104.2	96.8	100.0	95.9
75°	1125.2	787.0	82.6	71.6	76.6	94.5	106.0	98.7	91.3	89.9	87.2
77.5°	797.1	504.3	66.5	66.1	69.7	86.7	99.1	92.2	84.9	82.1	80.3
80°	458.4	247.3	57.4	59.7	63.3	78.9	90.9	84.9	78.0	73.9	71.1
82.5°	175.3	86.3	50.5	51.9	56.0	70.7	82.6	77.6	70.7	74.3	62.4
85°	56.9	47.3	41.3	42.7	46.8	58.7	73.0	68.8	61.0	54.1	50.0
87.5°	25.2	25.7	22.0	24.3	29.4	39.0	53.2	50.5	44.5	37.2	35.8
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)