

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: P397735

Luminaire Tested: **ARCH-S-PA1-30-830-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
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-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3779 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

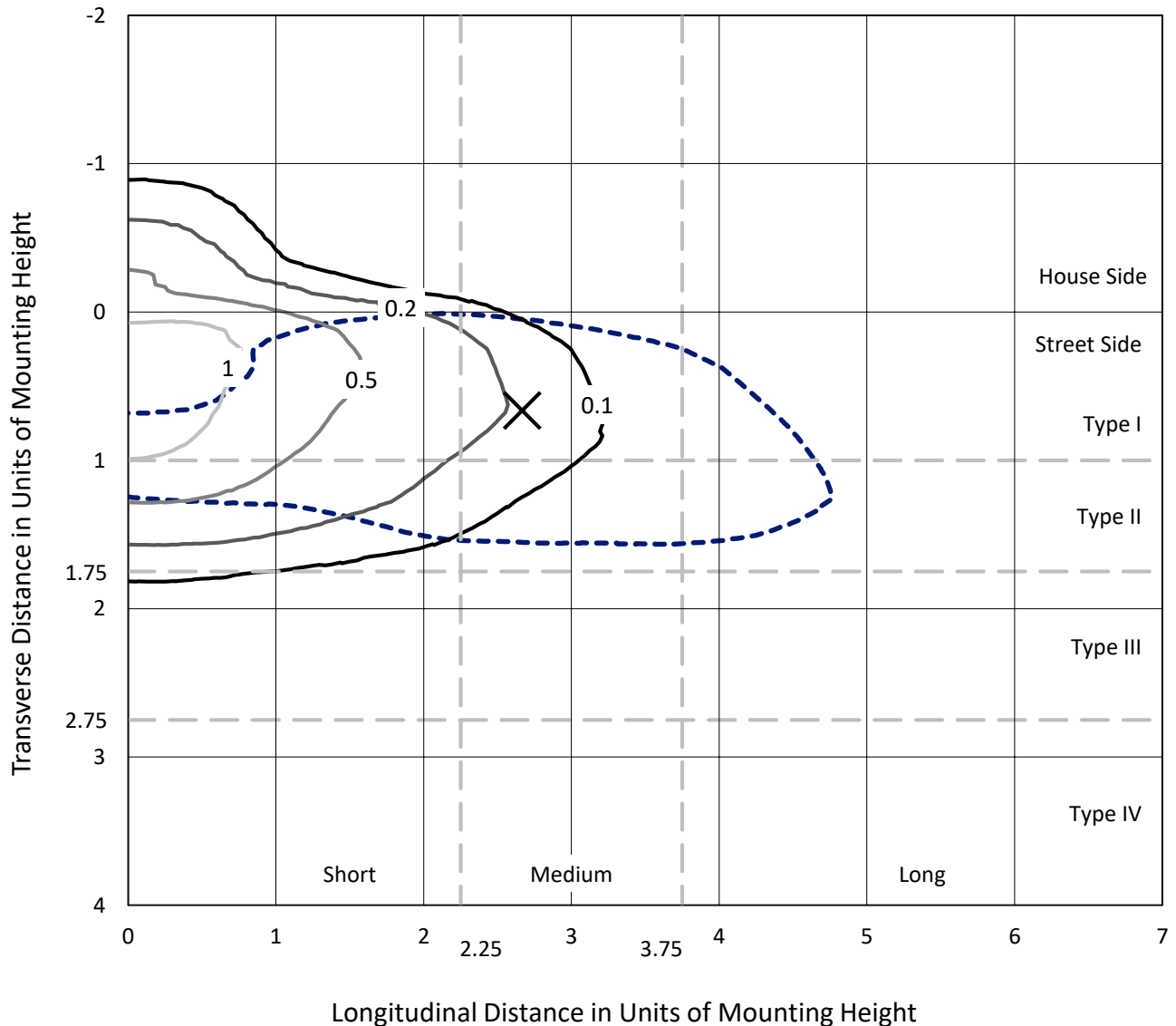
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

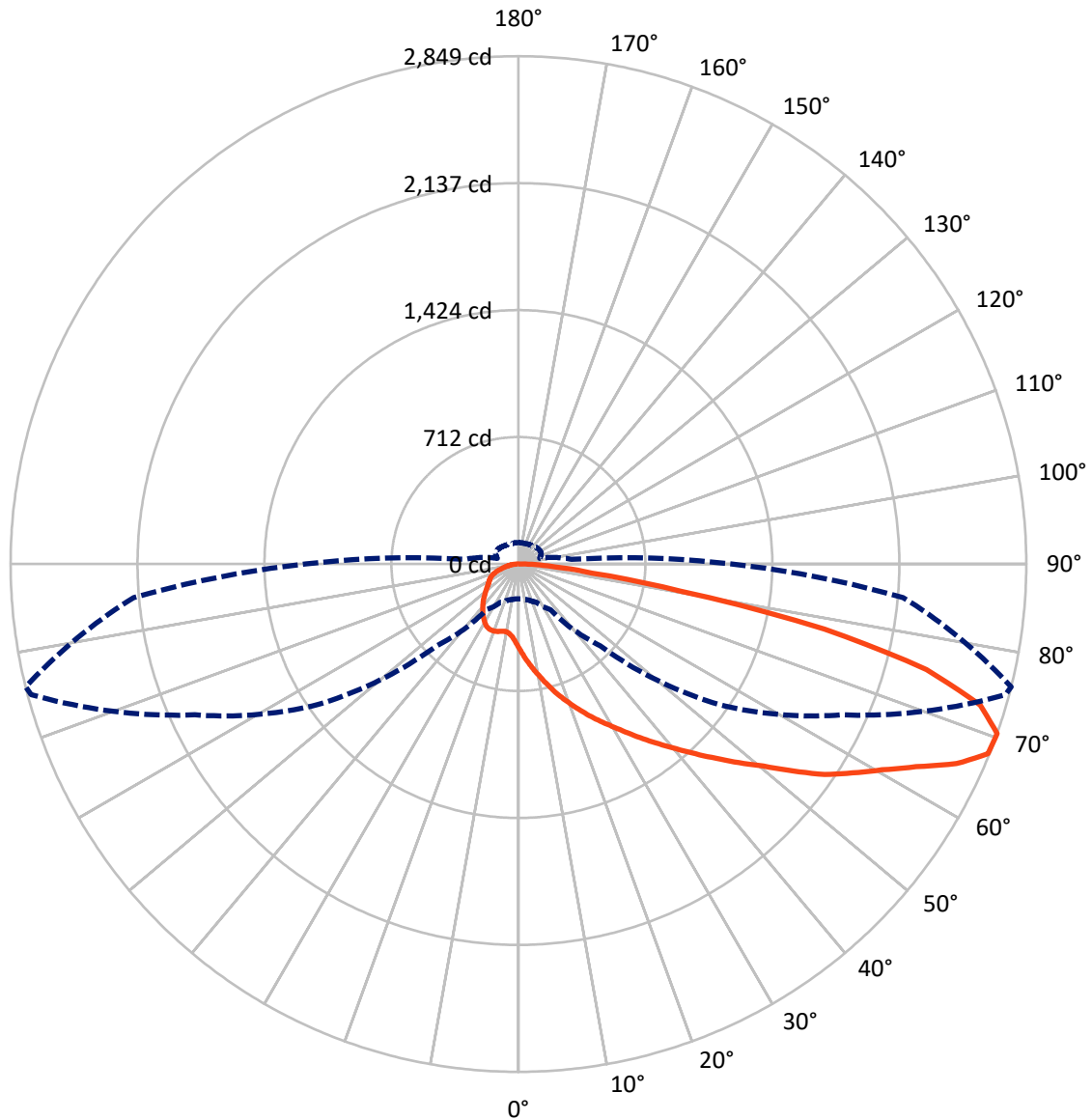
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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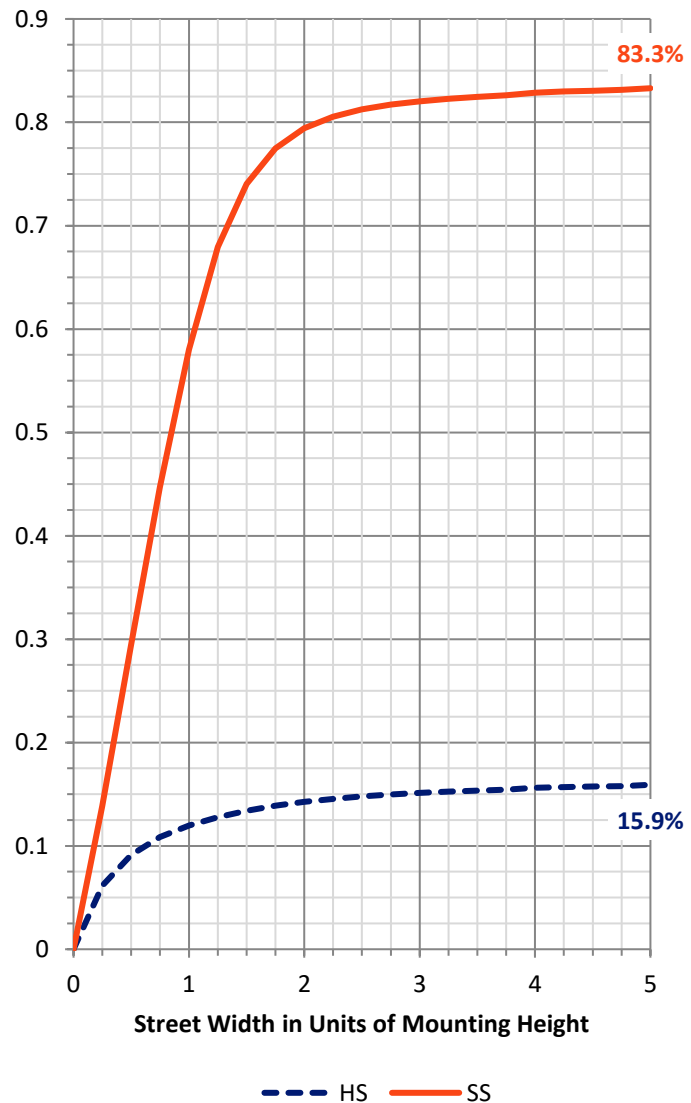
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	617.0	0.0	617.0
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	3162.0	0.0	3162.0
	% Fixture	83.7	0.0	83.7
Total	Lumens	3779.0	0.0	3779.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	1.3
10°-20°	166.9	4.4
20°-30°	298.6	7.9
30°-40°	483.0	12.8
40°-50°	698.7	18.5
50°-60°	799.7	21.2
60°-70°	735.7	19.5
70°-80°	454.9	12.0
80°-90°	92.4	2.4
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°	3779.0	100.0
0°-180°	3779.0	100.0



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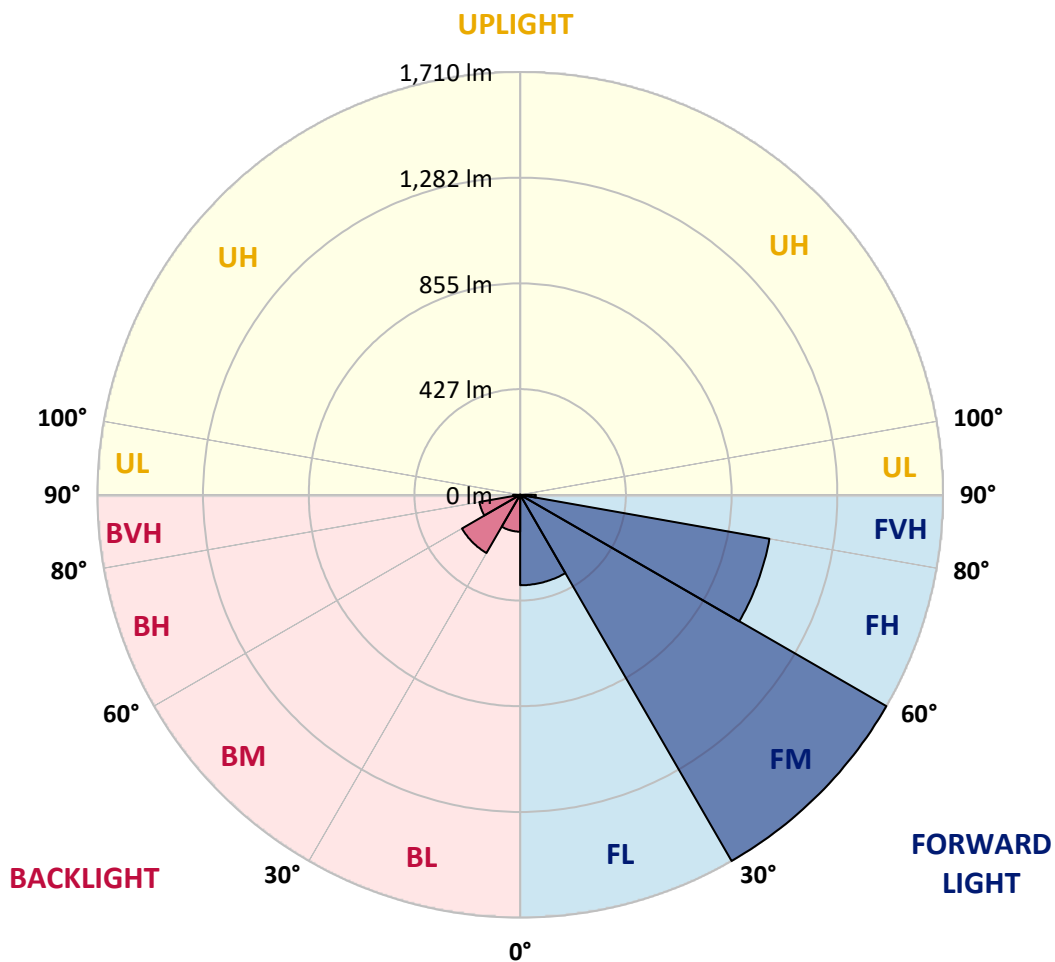
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	365.6	9.7			
FM (30°-60°)	1709.8	45.2			
FH (60°-80°)	1023.3	27.1			G1/1800
FVH (80°-90°)	63.4	1.7			G1/100
BL (0°-30°)	149.0	3.9	B1/500		
BM (30°-60°)	271.6	7.2	B1/1000		
BH (60°-80°)	167.3	4.4	B1/500		G1/500
BVH (80°-90°)	29.0	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	472.6	472.6	472.6	472.6	472.6	472.6	472.6	472.6	472.6	472.6	472.6
2.5°	602.3	597.8	597.3	590.4	583.9	566.5	554.1	532.2	510.3	509.8	488.0
5°	696.2	691.7	689.2	680.8	669.9	647.0	624.6	590.8	553.6	551.1	509.8
7.5°	759.8	755.8	750.9	747.4	736.9	716.6	689.2	649.0	597.8	592.8	535.2
10°	802.5	800.1	799.1	796.6	790.1	773.7	747.4	704.6	642.0	636.6	562.0
12.5°	820.9	819.9	824.4	831.4	833.8	827.4	802.0	761.8	690.7	684.8	594.3
15°	799.6	800.6	812.0	835.8	861.2	875.1	860.2	820.9	745.9	737.4	632.1
17.5°	789.6	791.1	799.1	821.9	857.7	900.9	907.9	877.1	799.1	787.1	671.8
20°	807.0	809.0	815.0	832.9	857.7	903.9	940.2	930.7	851.2	838.8	710.1
22.5°	851.2	853.7	853.2	864.7	881.6	913.4	958.1	981.4	905.9	892.0	749.9
25°	945.7	943.7	926.8	921.3	925.8	946.2	981.9	1030.1	963.0	949.1	791.6
27.5°	1073.9	1071.4	1040.6	1012.7	987.9	996.8	1015.7	1069.4	1021.2	1005.3	831.4
30°	1211.0	1208.0	1172.3	1127.0	1071.9	1059.0	1056.5	1103.7	1079.8	1062.9	873.6
32.5°	1344.7	1342.2	1303.9	1251.3	1175.2	1136.5	1112.6	1141.9	1146.4	1130.0	919.8
35°	1466.4	1466.4	1433.6	1371.0	1285.1	1226.4	1187.2	1189.2	1222.9	1204.1	972.5
37.5°	1574.8	1574.3	1538.5	1476.9	1394.4	1327.3	1278.6	1246.3	1296.0	1279.6	1027.7
40°	1660.7	1657.3	1630.9	1577.3	1494.3	1427.7	1378.5	1313.4	1377.5	1362.6	1086.3
42.5°	1723.4	1721.4	1703.5	1656.8	1577.8	1515.1	1481.3	1397.9	1469.9	1455.0	1154.9
45°	1747.7	1751.7	1751.7	1707.5	1644.8	1587.7	1572.8	1490.8	1569.8	1554.9	1228.4
47.5°	1708.4	1718.9	1740.2	1743.2	1688.1	1649.3	1654.3	1584.2	1672.7	1664.7	1308.9
50°	1585.7	1605.1	1651.8	1736.3	1705.5	1696.5	1723.8	1679.6	1783.0	1780.5	1406.8
52.5°	1269.2	1316.4	1462.0	1613.5	1693.5	1718.4	1792.9	1787.0	1925.1	1929.1	1534.5
55°	973.5	991.4	1159.8	1417.7	1620.5	1711.4	1839.1	1891.8	2079.2	2084.1	1651.8
57.5°	787.1	799.1	891.0	1159.8	1454.0	1673.7	1875.4	1952.9	2197.4	2210.3	1756.1
60°	623.6	641.0	702.7	887.5	1221.0	1582.7	1900.8	2021.0	2324.6	2344.0	1880.9
62.5°	463.6	472.1	530.2	657.4	966.5	1419.2	1887.3	2095.1	2480.7	2504.0	2031.0
65°	330.0	337.4	378.7	467.6	714.6	1198.1	1809.3	2150.2	2676.5	2700.3	2182.0
67.5°	247.0	250.0	273.3	327.0	481.5	930.7	1651.3	2140.8	2819.6	2840.9	2242.6
70°	195.3	196.3	207.7	236.5	313.1	648.0	1374.5	2002.1	2830.0	2848.9	2166.1
72.5°	162.0	161.5	168.0	181.9	218.2	410.0	1018.2	1744.7	2695.8	2708.8	1952.4
75°	133.7	134.7	139.1	147.1	166.5	270.3	659.9	1391.9	2378.3	2364.4	1638.4
77.5°	112.3	111.8	113.8	120.8	134.7	194.3	386.6	1005.8	1762.6	1755.7	1075.4
80°	90.4	91.4	94.4	100.4	113.3	148.1	228.6	627.6	945.7	920.3	513.8
82.5°	60.6	70.1	76.0	83.0	97.9	109.3	145.1	319.0	422.9	416.4	233.1
85°	28.8	38.3	56.6	64.6	79.5	68.6	98.4	152.1	211.7	209.2	84.0
87.5°	6.0	6.0	30.3	36.3	49.2	29.3	54.7	66.1	102.4	95.9	34.3
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°	472.6	472.6	472.6	472.6	472.6	472.6	472.6	472.6	472.6	472.6	472.6
2.5°	475.1	461.6	434.8	413.4	391.6	379.2	363.8	356.3	354.8	350.8	353.8
5°	483.5	457.2	406.5	373.2	350.8	339.9	334.4	332.4	331.9	331.0	331.0
7.5°	494.9	454.7	388.6	354.8	340.4	336.9	338.4	341.4	341.9	342.9	342.4
10°	508.9	455.2	378.7	350.3	343.4	343.9	348.8	352.8	354.8	356.3	355.8
12.5°	528.2	461.2	377.2	353.3	350.3	352.3	357.3	361.3	363.3	363.8	363.8
15°	553.6	473.6	380.6	359.8	357.3	358.8	361.8	363.3	363.8	363.3	363.3
17.5°	581.4	488.5	385.6	363.8	359.8	358.3	357.3	355.8	352.8	350.8	350.8
20°	608.2	501.9	388.1	363.3	356.3	350.3	344.4	336.9	331.9	328.0	328.0
22.5°	635.1	514.3	388.1	357.8	346.9	335.4	323.0	311.1	303.6	298.7	298.7
25°	663.4	526.2	385.1	348.3	331.9	315.6	298.7	283.7	276.3	271.3	270.3
27.5°	687.3	533.2	377.2	334.9	313.6	292.7	273.3	257.9	252.4	248.0	248.0
30°	712.6	537.7	362.3	317.5	292.7	268.8	249.0	236.5	230.6	224.1	223.6
32.5°	740.9	540.7	345.4	299.2	271.3	246.0	229.1	219.1	206.2	199.3	198.3
35°	773.7	544.6	327.5	278.3	250.0	227.1	217.2	200.8	188.3	182.4	181.9
37.5°	808.5	547.6	308.1	259.9	230.6	214.7	204.7	185.4	174.4	165.5	164.5
40°	845.3	547.6	288.2	242.0	215.2	209.2	190.3	172.9	154.5	150.1	149.1
42.5°	886.0	546.6	268.3	224.6	200.8	196.8	181.9	163.5	154.0	150.1	149.1
45°	929.3	543.1	249.5	204.7	185.9	177.9	166.5	161.5	157.5	157.5	157.5
47.5°	978.5	540.2	228.1	186.8	174.9	166.0	157.5	154.5	154.0	155.5	157.0
50°	1041.6	539.2	210.2	173.9	166.5	156.0	155.0	152.6	153.1	153.1	153.1
52.5°	1118.1	530.2	193.3	164.5	158.0	145.6	148.6	151.1	152.1	151.6	151.1
55°	1174.2	514.3	178.9	158.0	152.1	141.6	145.6	149.6	150.6	149.1	149.1
57.5°	1224.9	492.0	167.5	153.1	148.1	139.1	143.6	147.6	146.6	146.1	145.6
60°	1283.1	470.6	158.5	150.6	144.1	138.1	142.1	144.6	143.1	142.1	141.6
62.5°	1346.2	449.7	152.1	150.6	141.1	137.6	140.6	141.6	138.6	137.6	137.6
65°	1375.5	416.9	145.1	150.6	139.6	136.7	137.6	136.7	133.7	133.7	133.2
67.5°	1327.3	362.8	136.2	148.6	141.6	135.2	133.2	131.7	128.2	128.2	127.2
70°	1194.1	298.2	123.2	142.1	142.1	134.7	127.2	123.7	119.8	121.3	119.3
72.5°	1020.2	236.5	107.3	131.2	139.1	134.2	120.8	115.3	111.8	113.3	110.3
75°	826.4	183.4	88.5	113.8	131.7	131.7	114.3	106.8	102.9	102.9	99.4
77.5°	526.7	135.7	72.1	94.4	118.3	128.2	108.8	97.4	91.4	89.9	87.5
80°	260.9	95.4	59.1	75.0	100.9	120.3	104.9	86.5	78.0	75.0	70.6
82.5°	138.6	66.1	47.2	58.6	80.5	108.3	99.9	74.5	64.1	59.6	54.7
85°	62.1	40.7	37.8	44.7	61.1	89.0	89.9	61.1	49.2	58.6	43.2
87.5°	22.9	18.4	18.4	22.9	35.3	37.3	63.6	39.3	31.3	21.4	16.9
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)