

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: P348676

Luminaire Tested: **ARCH-N-PA1-30-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-30-827-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 560mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3224 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

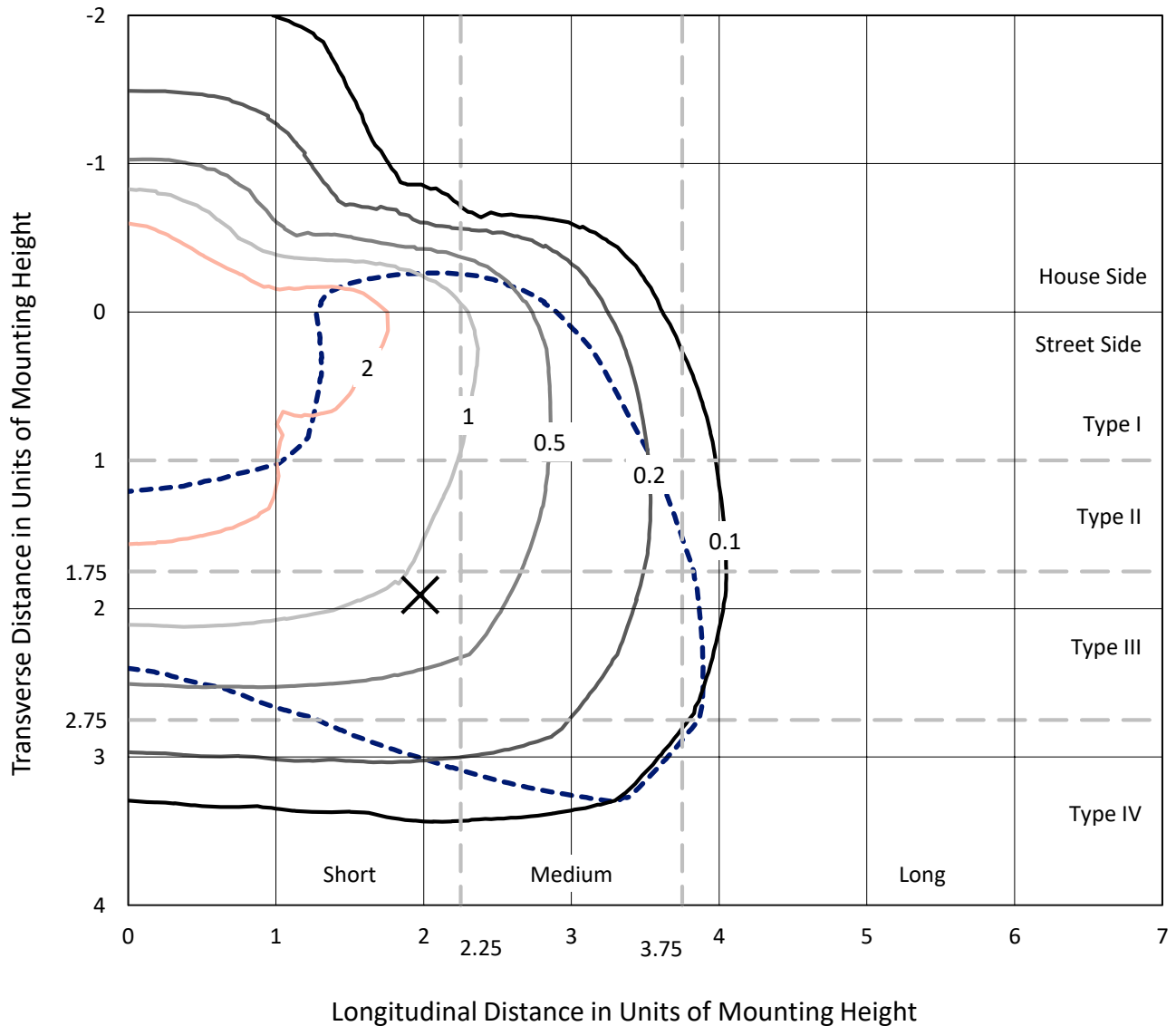
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

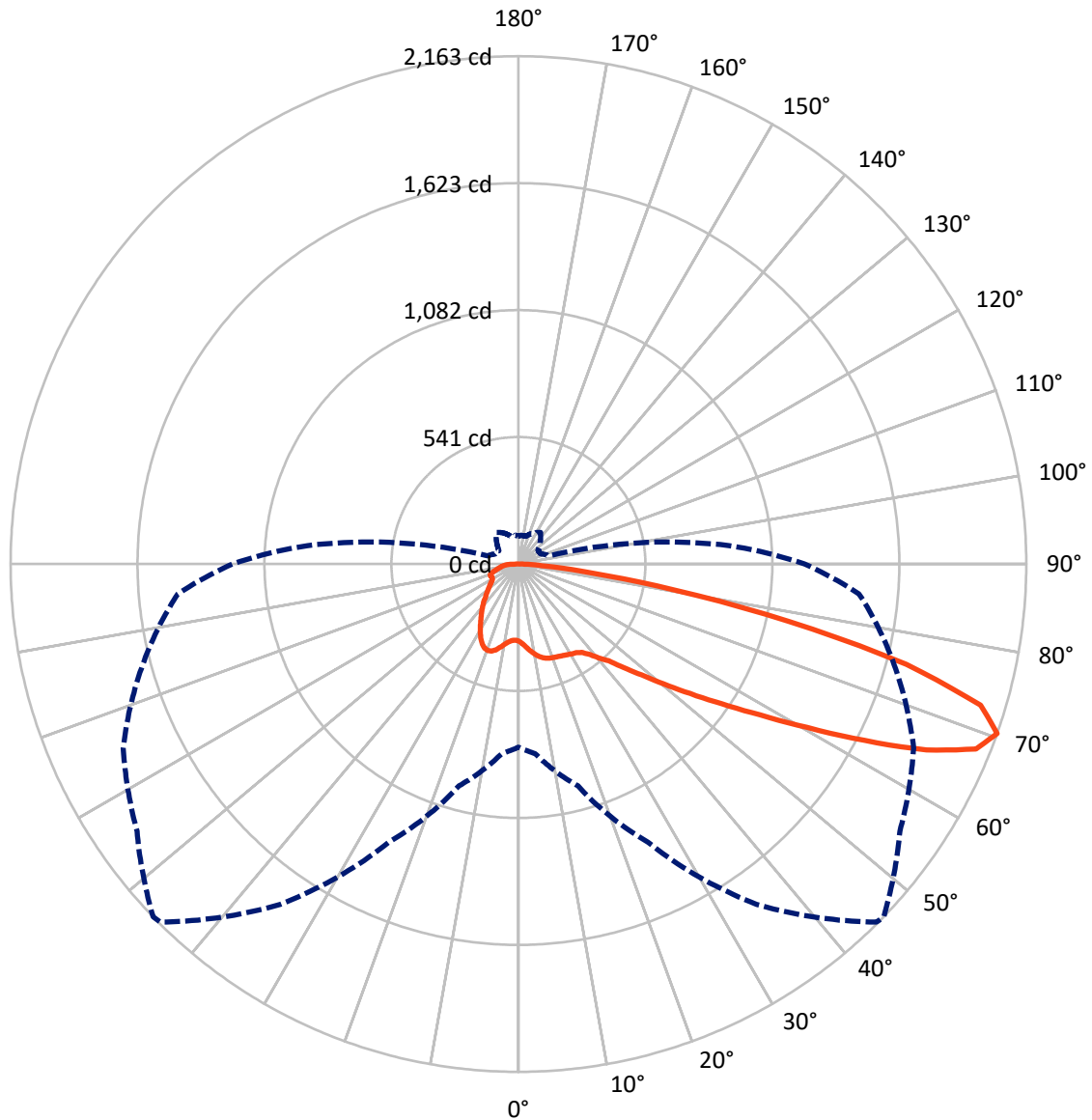


Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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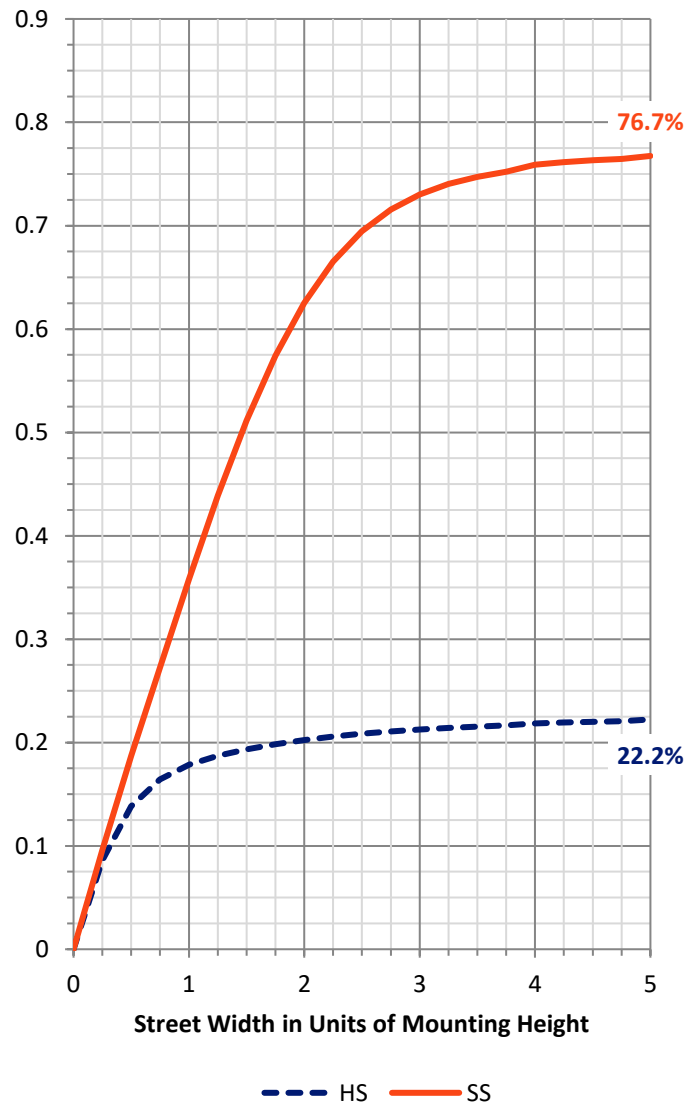
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	738.9	0.0	738.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	2485.1	0.0	2485.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	3224.0	0.0	3224.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.5	1.0
10°-20°	111.6	3.5
20°-30°	186.0	5.8
30°-40°	264.0	8.2
40°-50°	388.3	12.0
50°-60°	657.5	20.4
60°-70°	933.4	29.0
70°-80°	567.0	17.6
80°-90°	82.8	2.6
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°	3224.0	100.0
0°-180°	3224.0	100.0



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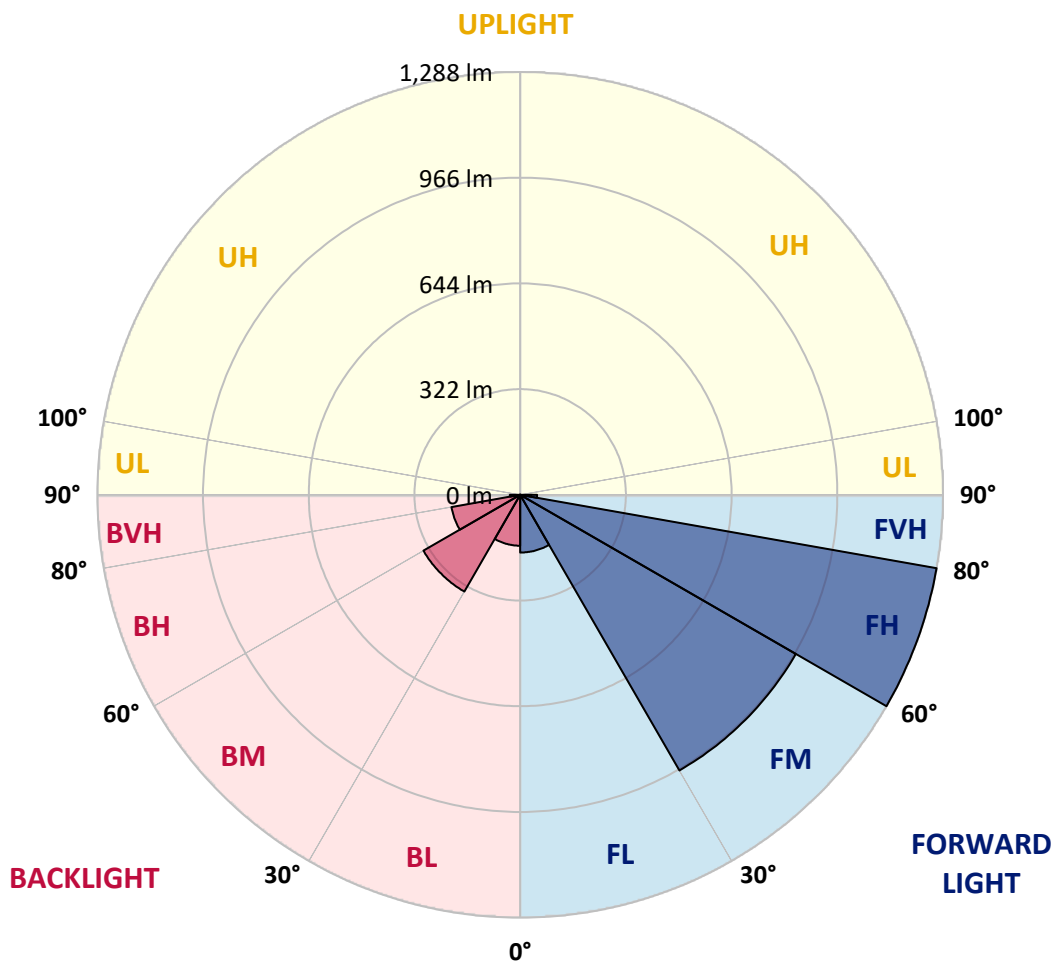
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	175.9	5.5			
FM	(30°-60°)	969.6	30.1			
FH	(60°-80°)	1288.0	39.9			G1/1800
FVH	(80°-90°)	51.5	1.6			G1/100
BL	(0°-30°)	155.1	4.8	B1/500		
BM	(30°-60°)	340.1	10.6	B1/1000		
BH	(60°-80°)	212.4	6.6	B1/500		G1/500
BVH	(80°-90°)	31.2	1.0			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	328.5	328.5	328.5	328.5	328.5	328.5	328.5	328.5	328.5	328.5	328.5
2.5°	344.9	345.1	345.6	344.5	341.4	340.5	340.2	337.0	334.9	331.8	329.1
5°	372.5	372.7	372.0	369.0	362.1	357.0	356.6	349.3	342.7	335.6	330.3
7.5°	401.3	401.6	399.5	393.7	384.1	375.2	374.7	364.8	354.7	344.0	336.1
10°	426.8	425.4	422.0	413.9	402.5	391.7	391.2	380.9	369.3	356.4	345.8
12.5°	443.8	442.7	438.2	428.3	415.8	405.9	405.0	395.4	384.2	370.1	357.4
15°	453.1	453.9	448.0	436.7	424.6	416.2	415.4	408.6	398.5	384.3	369.7
17.5°	454.4	455.0	449.3	438.1	428.2	422.5	422.1	417.6	410.3	396.6	381.4
20°	447.3	447.7	443.0	433.8	427.3	425.6	425.4	423.5	418.1	405.9	391.1
22.5°	437.0	437.4	433.9	427.3	425.1	427.9	428.6	427.9	424.0	412.6	398.7
25°	434.5	434.3	430.7	424.0	425.9	431.7	432.7	433.1	430.4	420.5	408.5
27.5°	446.7	446.0	439.2	428.4	429.6	436.7	438.0	441.2	439.6	430.9	419.5
30°	482.2	480.8	467.0	445.2	439.2	442.9	444.5	449.6	449.9	442.7	434.2
32.5°	542.0	540.3	515.6	476.5	455.5	449.2	450.7	458.3	462.4	456.8	447.6
35°	617.5	615.7	583.2	529.8	482.6	461.2	462.3	468.4	476.5	468.6	456.4
37.5°	696.3	691.8	660.6	592.5	525.7	486.9	486.9	487.7	491.5	475.0	466.8
40°	774.7	770.1	741.9	666.2	581.6	527.4	524.9	507.8	504.7	490.4	487.7
42.5°	847.5	846.1	829.5	749.5	647.1	567.2	563.7	534.7	535.3	526.5	526.6
45°	924.9	924.9	911.4	833.6	723.5	631.2	627.7	585.0	591.6	587.5	597.3
47.5°	988.1	990.1	988.3	921.2	812.3	712.5	706.1	654.7	673.3	687.3	715.8
50°	1052.7	1055.8	1056.1	1017.3	919.6	809.2	801.9	747.3	788.7	828.8	885.0
52.5°	1146.4	1153.3	1125.6	1113.2	1051.1	923.9	916.8	866.3	935.4	991.8	1088.5
55°	1233.2	1227.1	1207.4	1215.1	1191.9	1054.6	1049.2	1004.9	1098.9	1172.2	1297.9
57.5°	1280.2	1279.8	1299.6	1332.7	1343.8	1215.7	1211.1	1168.1	1283.3	1338.3	1494.4
60°	1335.4	1336.1	1385.3	1460.5	1505.9	1416.2	1414.3	1381.6	1462.4	1493.5	1648.5
62.5°	1343.1	1357.0	1441.7	1571.0	1657.8	1650.6	1655.0	1573.9	1622.6	1617.3	1763.6
65°	1254.3	1272.6	1425.9	1604.5	1808.7	1906.9	1911.0	1767.3	1748.9	1723.1	1804.7
67.5°	1072.2	1099.4	1266.0	1531.8	1858.5	2096.3	2102.1	1917.3	1853.7	1758.9	1705.6
70°	780.3	810.4	978.1	1308.2	1769.7	2156.9	2163.4	1983.6	1857.7	1656.9	1456.1
72.5°	471.3	495.0	633.2	963.1	1493.7	2046.6	2058.2	1899.5	1696.0	1403.4	1075.2
75°	207.0	222.4	306.2	555.0	1069.4	1693.3	1707.7	1625.9	1378.1	1019.9	635.5
77.5°	88.2	92.6	125.6	241.1	604.5	1157.1	1176.9	1188.0	935.0	555.0	268.6
80°	54.9	56.7	71.1	109.1	282.9	649.9	671.3	699.0	464.3	204.0	93.8
82.5°	33.4	35.4	47.2	66.0	147.3	294.6	304.9	324.4	180.2	88.2	48.5
85°	20.1	21.5	28.9	41.7	83.9	115.9	115.7	128.0	84.8	56.7	25.6
87.5°	9.6	10.7	15.4	21.6	42.3	43.5	40.7	46.1	51.5	37.2	12.9
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°	328.5	328.5	328.5	328.5	328.5	328.5	328.5	328.5	328.5	328.5	328.5
2.5°	328.2	327.8	326.4	325.3	325.0	324.4	323.8	324.2	324.6	324.7	324.7
5°	328.1	326.9	325.0	324.3	325.3	326.6	328.2	330.4	331.8	332.8	333.4
7.5°	333.4	331.1	329.0	328.6	330.6	334.1	337.8	342.5	345.7	347.9	348.3
10°	342.3	339.4	337.3	337.7	341.3	346.3	351.6	357.6	362.4	365.4	365.6
12.5°	352.4	349.6	347.7	349.5	355.4	361.6	367.1	372.3	376.7	379.7	379.7
15°	364.1	362.1	359.8	364.1	372.0	377.6	379.9	382.4	384.8	387.0	386.6
17.5°	375.4	373.5	372.3	377.3	385.6	388.2	386.6	384.7	384.7	385.9	386.2
20°	385.1	383.4	384.2	389.1	393.4	390.8	385.1	379.1	376.7	377.3	378.0
22.5°	393.6	392.8	395.1	397.4	394.3	385.1	374.5	366.4	363.4	363.2	363.4
25°	403.5	403.4	406.2	402.1	388.4	371.3	357.0	349.2	347.6	348.9	351.1
27.5°	415.8	417.1	418.5	403.2	376.2	350.4	336.0	330.6	332.2	335.4	337.5
30°	431.6	434.9	431.8	400.4	358.8	326.6	312.8	311.3	315.8	320.3	322.5
32.5°	447.0	452.1	444.6	393.2	336.3	301.3	290.6	290.2	295.7	300.1	303.2
35°	459.3	469.6	454.2	379.0	310.3	278.0	270.2	267.2	269.2	274.4	277.9
37.5°	475.4	492.5	460.9	357.3	282.0	258.8	249.7	242.8	241.1	243.2	244.9
40°	504.9	527.5	464.0	326.9	254.4	239.6	230.4	220.3	213.4	208.3	208.4
42.5°	553.0	573.1	462.0	290.1	228.9	220.9	210.4	198.8	187.6	176.1	175.2
45°	631.1	640.8	456.0	251.0	206.5	201.2	191.4	179.8	164.8	151.8	150.6
47.5°	756.1	734.6	446.7	216.9	186.8	184.6	175.5	162.2	146.3	135.8	134.9
50°	926.6	870.0	442.2	189.8	169.4	170.0	162.6	148.5	133.5	125.8	124.9
52.5°	1130.5	1027.6	450.9	168.8	155.3	157.7	152.1	138.9	126.3	120.3	119.4
55°	1342.0	1190.9	460.3	153.6	142.1	146.6	144.8	133.8	122.5	116.8	116.1
57.5°	1523.0	1312.9	441.6	141.2	130.3	137.4	139.0	130.6	120.5	115.4	114.5
60°	1637.0	1362.0	392.3	129.6	120.9	130.0	135.7	129.8	121.3	120.8	120.2
62.5°	1691.1	1357.7	318.5	120.5	115.1	126.8	138.1	134.7	130.1	134.1	134.4
65°	1666.8	1292.8	237.2	114.4	110.9	128.0	145.4	144.1	132.6	136.6	137.1
67.5°	1507.0	1138.0	175.7	109.1	106.3	131.4	158.7	147.2	127.7	130.5	128.8
70°	1218.1	902.2	135.5	103.2	101.5	131.0	164.6	145.3	122.2	122.9	118.2
72.5°	840.0	615.2	110.2	97.6	94.7	119.4	160.4	140.7	117.7	112.7	106.4
75°	456.8	330.2	93.7	91.9	82.6	104.8	152.7	137.4	113.6	106.9	103.4
77.5°	179.7	137.0	81.3	84.1	72.3	92.6	144.1	131.1	108.0	99.2	97.4
80°	73.4	70.0	67.4	72.7	62.1	81.0	133.7	123.7	101.3	92.0	88.5
82.5°	41.6	43.5	52.4	57.4	50.4	74.6	128.8	117.7	93.2	82.4	78.2
85°	21.3	25.5	36.5	41.2	37.1	63.4	118.6	103.1	74.8	63.1	63.4
87.5°	10.3	14.2	23.1	25.8	24.1	45.9	88.6	74.7	58.3	46.1	44.7
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)