

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: P397693

Luminaire Tested: **ARCH-S-PA1-30-730-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397693
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-30-730-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3089 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 31
Input Voltage (V): NR
Input Current (A_{in}): 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

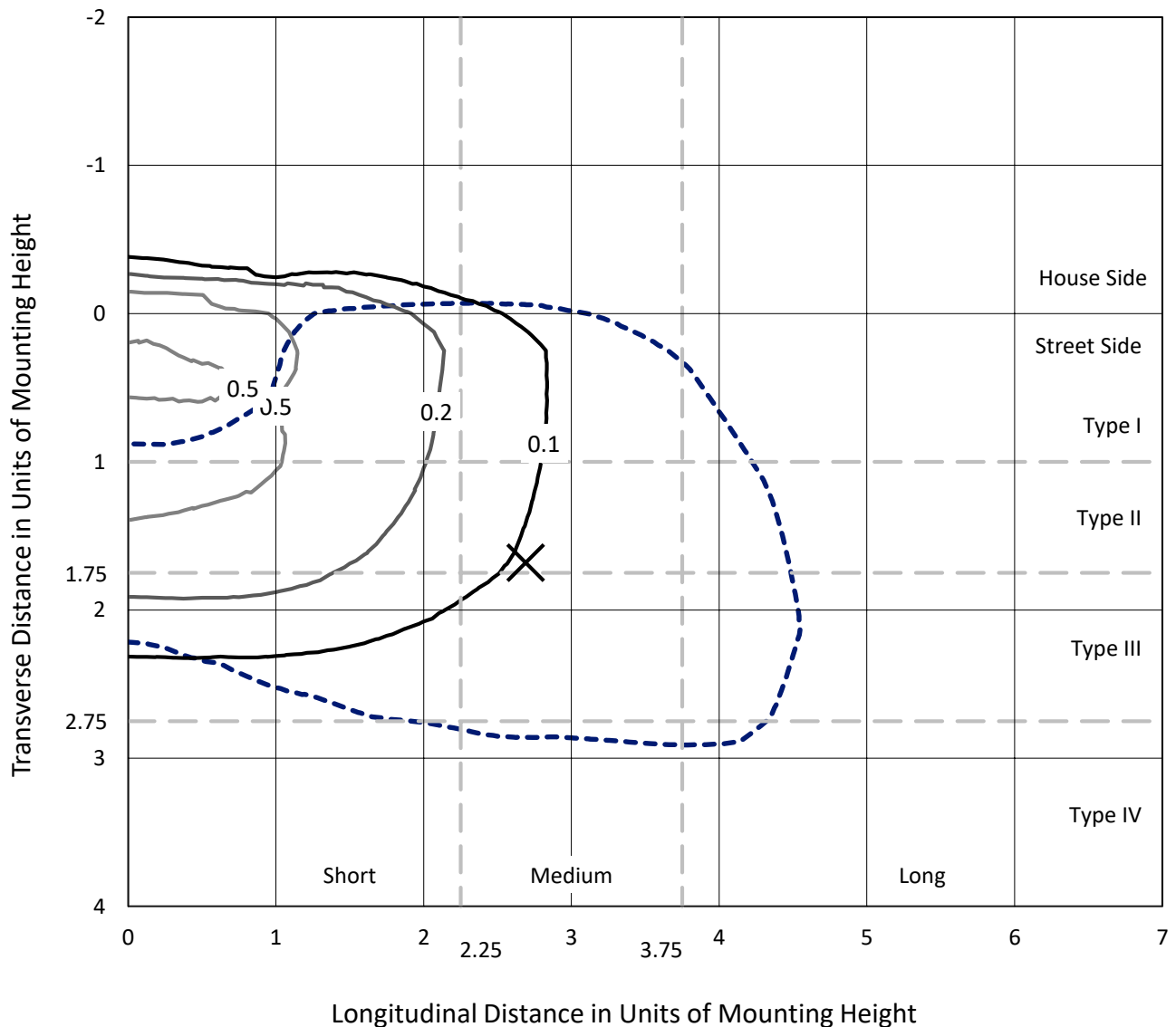


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

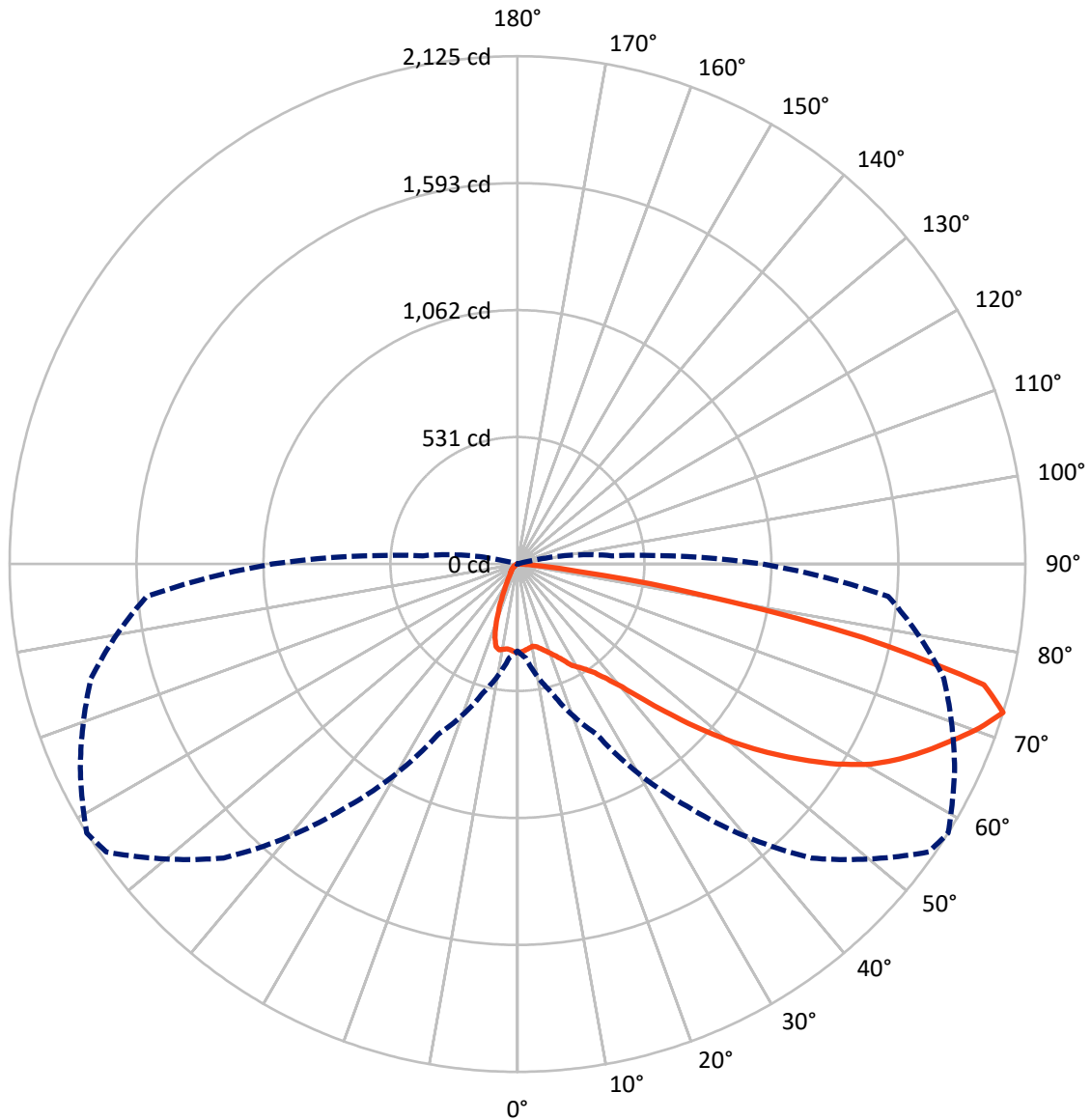


Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Medium - Non-Cutoff

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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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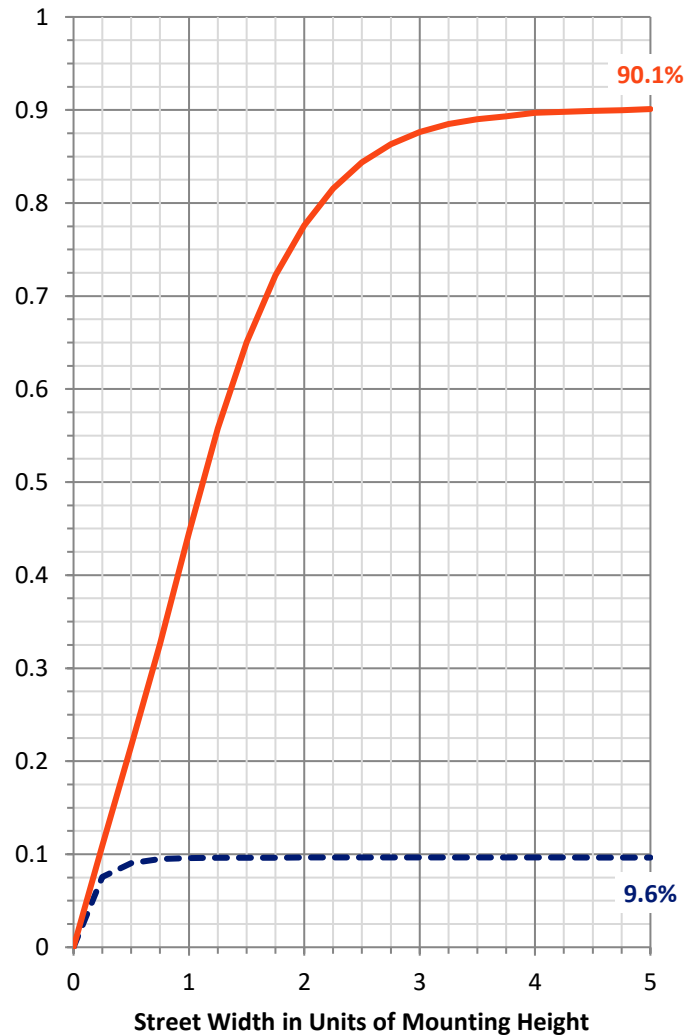
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	300.4	0.0	300.4
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	2788.6	0.0	2788.6
	% Fixture	90.3	0.0	90.3
Total	Lumens	3089.0	0.0	3089.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.0	1.1
10°-20°	88.6	2.9
20°-30°	139.2	4.5
30°-40°	240.0	7.8
40°-50°	456.7	14.8
50°-60°	723.3	23.4
60°-70°	844.0	27.3
70°-80°	528.6	17.1
80°-90°	34.7	1.1
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°	3089.0	100.0
0°-180°	3089.0	100.0



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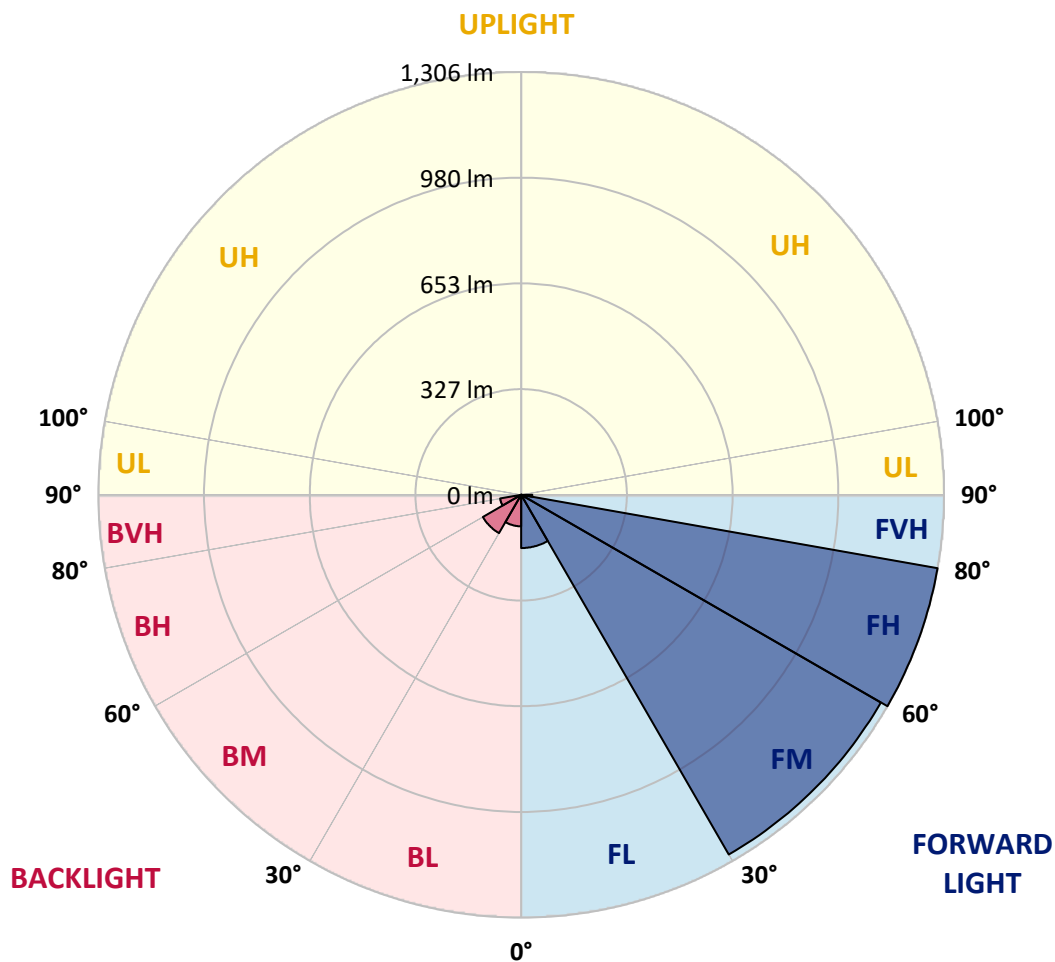
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	164.5	5.3			
FM	(30°-60°)	1283.3	41.5			
FH	(60°-80°)	1306.4	42.3			G1/1800
FVH	(80°-90°)	34.4	1.1			G1/100
BL	(0°-30°)	97.3	3.1	B0/110		
BM	(30°-60°)	136.7	4.4	B0/220		
BH	(60°-80°)	66.1	2.1	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7
2.5°	369.0	367.3	366.8	366.2	366.8	367.3	365.7	367.3	366.2	366.8	367.9
5°	355.7	354.1	353.5	354.1	355.7	358.5	359.6	361.3	361.3	362.9	363.5
7.5°	340.8	339.7	339.2	340.3	343.6	349.7	353.0	355.2	357.4	360.7	364.0
10°	332.5	332.0	331.4	333.1	336.4	341.9	346.4	349.7	358.0	367.3	373.4
12.5°	327.0	327.0	328.1	331.4	335.9	340.3	350.8	355.2	367.9	382.3	390.5
15°	322.6	322.6	324.3	330.3	336.4	346.9	362.4	367.3	382.3	399.9	411.0
17.5°	319.3	320.4	321.5	327.6	339.2	356.9	375.1	382.3	400.5	419.8	432.0
20°	319.8	320.9	321.5	327.6	344.1	368.5	391.7	399.9	420.9	441.4	453.5
22.5°	323.2	324.8	325.4	333.7	353.0	380.6	410.4	419.8	442.5	464.0	473.4
25°	337.0	338.1	334.8	341.9	365.7	399.4	434.7	444.7	467.3	487.2	495.0
27.5°	383.9	385.0	366.8	358.5	375.6	414.9	464.6	478.4	506.6	519.8	520.9
30°	485.6	486.7	450.8	411.5	399.4	428.1	481.1	500.5	536.9	551.8	545.2
32.5°	616.5	615.4	566.2	508.2	455.7	451.3	504.9	525.3	565.1	579.5	574.5
35°	748.0	749.6	707.6	620.3	545.2	495.0	535.3	559.0	607.1	627.5	618.7
37.5°	838.0	849.0	830.8	736.4	655.1	575.6	584.4	609.9	670.1	697.7	678.9
40°	965.0	962.3	918.1	848.5	776.7	694.9	664.0	676.1	745.2	782.2	752.9
42.5°	1135.7	1130.2	1055.1	987.1	907.0	840.2	777.2	775.0	831.4	874.5	831.9
45°	1290.4	1282.1	1230.7	1165.0	1077.2	1000.4	915.3	896.0	935.2	971.7	922.0
47.5°	1413.6	1399.8	1363.3	1328.5	1307.0	1187.7	1060.1	1030.8	1050.7	1077.7	1007.6
50°	1559.4	1521.3	1468.3	1447.3	1492.0	1399.8	1199.3	1171.1	1170.0	1185.5	1096.0
52.5°	1625.7	1556.7	1526.8	1544.5	1623.5	1597.0	1349.5	1309.2	1293.2	1294.8	1178.3
55°	1545.6	1537.9	1553.9	1609.1	1712.4	1697.0	1493.7	1444.0	1420.2	1390.4	1257.3
57.5°	1454.5	1478.2	1541.8	1647.3	1825.1	1801.4	1635.7	1579.3	1535.7	1467.2	1345.1
60°	1370.5	1394.8	1499.8	1656.1	1887.0	1901.9	1753.9	1700.3	1635.7	1545.6	1441.8
62.5°	1242.9	1261.7	1409.2	1643.4	1859.9	1960.5	1836.2	1795.9	1735.6	1620.2	1552.8
65°	1099.3	1111.4	1257.3	1541.8	1806.9	1953.8	1904.1	1881.5	1822.9	1698.1	1662.7
67.5°	941.8	956.2	1077.7	1358.9	1703.1	1922.9	1968.2	1966.0	1899.2	1784.3	1742.3
70°	760.7	761.8	862.3	1126.9	1521.9	1861.0	2047.8	2052.7	1972.1	1848.9	1745.6
72.5°	364.0	393.9	559.0	786.6	1236.8	1739.5	2099.7	2124.5	2017.9	1846.7	1557.2
75°	83.4	86.2	163.0	374.0	725.3	1335.2	1969.9	2016.3	1906.3	1597.0	1097.1
77.5°	30.4	32.0	45.8	109.4	279.0	689.9	1409.7	1477.7	1409.2	1032.4	518.7
80°	20.4	19.9	23.8	48.6	128.2	195.6	720.9	761.2	694.9	352.4	124.3
82.5°	10.5	11.0	16.6	27.1	86.2	67.9	240.8	261.8	215.4	70.7	23.2
85°	5.0	5.0	9.4	17.1	36.5	23.8	53.6	64.6	58.0	30.9	7.7
87.5°	5.0	5.0	8.8	11.0	18.8	9.9	13.3	16.6	15.5	16.6	2.8
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°	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7
2.5°	367.9	367.3	366.8	367.9	367.3	368.5	368.5	369.6	369.6	368.5	367.9
5°	362.9	361.8	360.7	360.7	360.2	361.3	364.6	367.3	367.9	366.2	365.7
7.5°	363.5	363.5	362.4	360.2	356.3	356.3	356.3	359.6	361.3	360.2	359.6
10°	373.4	374.0	371.2	366.2	359.6	353.5	341.9	324.8	308.8	304.4	302.7
12.5°	390.5	391.1	385.6	376.7	362.9	327.0	282.8	242.0	210.5	201.6	200.0
15°	411.0	411.5	401.6	387.2	345.3	261.8	196.1	149.7	122.1	115.5	114.9
17.5°	432.0	430.9	416.0	388.3	292.8	185.6	119.3	95.6	88.4	86.7	87.3
20°	452.4	449.1	428.7	367.9	225.4	121.5	87.3	81.8	80.1	79.0	79.0
22.5°	471.2	464.6	439.2	327.6	158.0	87.3	77.9	76.8	74.6	72.9	72.4
25°	490.0	480.6	445.8	275.1	106.1	76.2	73.5	71.3	68.5	66.3	65.7
27.5°	512.6	499.4	442.5	208.8	79.5	70.7	68.5	65.2	61.3	58.0	56.9
30°	534.2	519.3	423.7	144.2	67.9	65.2	61.9	56.9	51.9	48.1	47.0
32.5°	561.2	544.1	390.0	94.5	59.1	56.9	53.6	47.5	40.9	36.5	35.4
35°	599.9	580.6	346.9	66.3	51.9	48.1	43.6	37.0	29.8	26.5	26.0
37.5°	654.0	628.1	292.8	53.6	45.8	40.3	33.7	27.1	22.1	19.3	18.8
40°	720.3	680.6	232.6	47.5	40.9	33.7	25.4	19.3	16.0	13.8	13.8
42.5°	792.1	729.7	171.2	43.6	35.9	27.6	18.8	13.8	11.6	10.5	9.9
45°	866.2	773.4	115.5	40.3	31.5	21.0	13.3	9.4	7.7	7.7	7.2
47.5°	942.9	802.6	74.6	36.5	26.5	15.5	8.8	6.6	5.5	5.5	5.5
50°	1019.2	818.1	53.0	33.1	21.5	10.5	6.6	5.0	4.4	4.4	4.4
52.5°	1074.4	808.2	42.5	28.7	16.6	7.7	5.0	3.9	3.3	3.3	3.3
55°	1122.5	791.0	37.0	24.9	12.2	5.5	3.9	3.3	2.8	2.8	2.8
57.5°	1171.6	768.9	33.1	21.0	8.8	3.9	2.8	2.2	2.2	2.2	2.2
60°	1216.4	731.4	28.7	16.6	6.1	2.8	2.2	1.7	1.7	1.7	1.7
62.5°	1260.0	699.3	24.9	12.7	4.4	2.2	1.1	1.1	0.6	0.6	0.6
65°	1284.9	656.3	19.9	8.3	2.8	1.7	0.6	0.6	0.0	0.0	0.0
67.5°	1277.2	604.9	13.8	5.0	1.7	1.1	0.6	0.0	0.0	0.0	0.0
70°	1223.6	535.8	8.3	2.8	1.7	1.1	0.6	0.0	0.0	0.0	0.0
72.5°	1024.7	396.6	5.0	2.2	1.1	0.6	0.0	0.0	0.0	0.0	0.0
75°	684.4	182.3	2.8	1.7	0.6	0.6	0.0	0.0	0.0	0.0	0.0
77.5°	313.2	54.7	1.7	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	63.0	14.4	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.3	2.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)