

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: P459562

Luminaire Tested: **ARCH-L-PA3-90-AMB-U-T3-HSS**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-905-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-90-AMB-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) NARROW BAND AMBER, 500mA LIGHT ENGINES WITH 24 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3025 lumens
Efficiency: N/A
Efficacy: 33.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 89.8
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

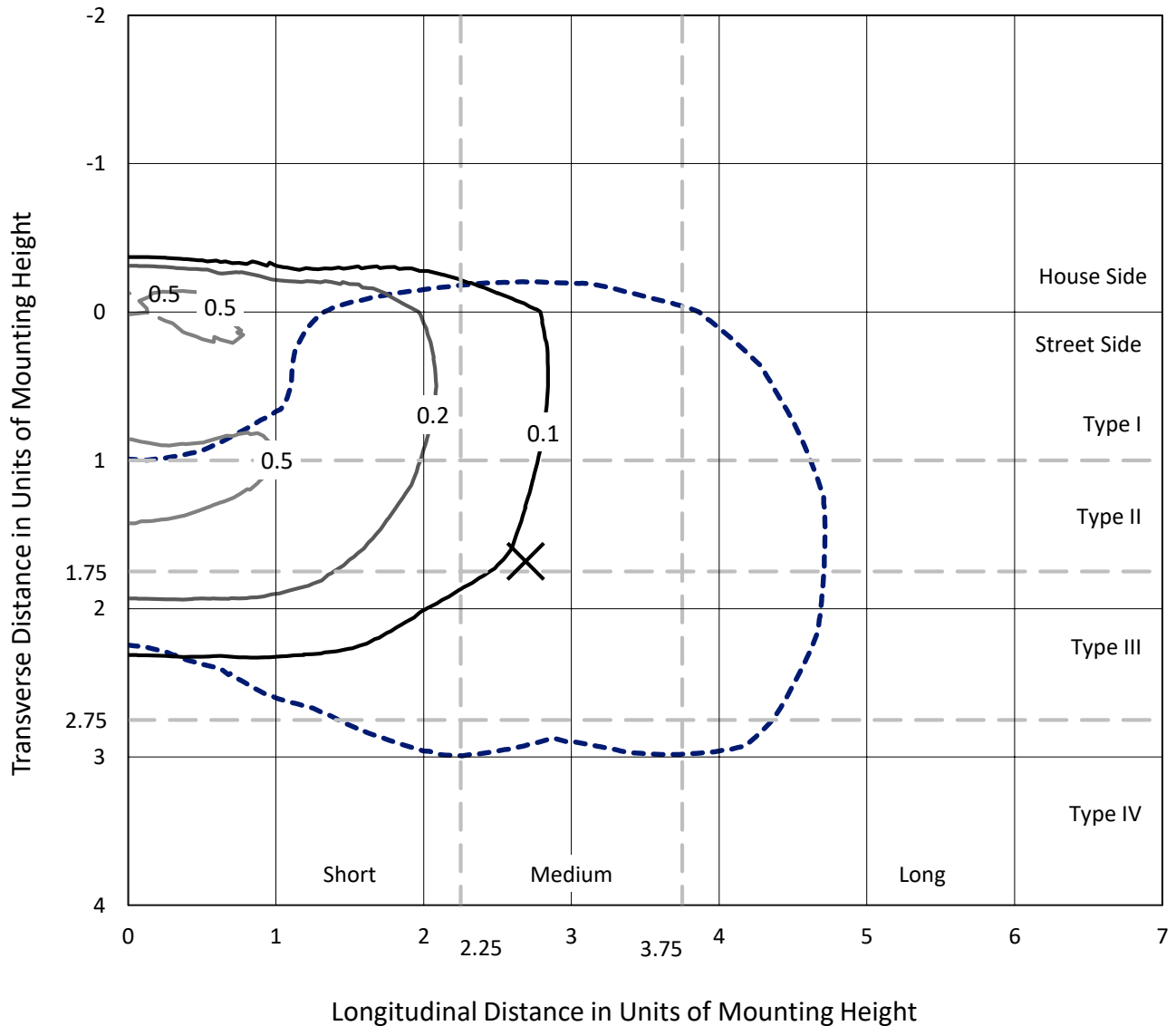


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

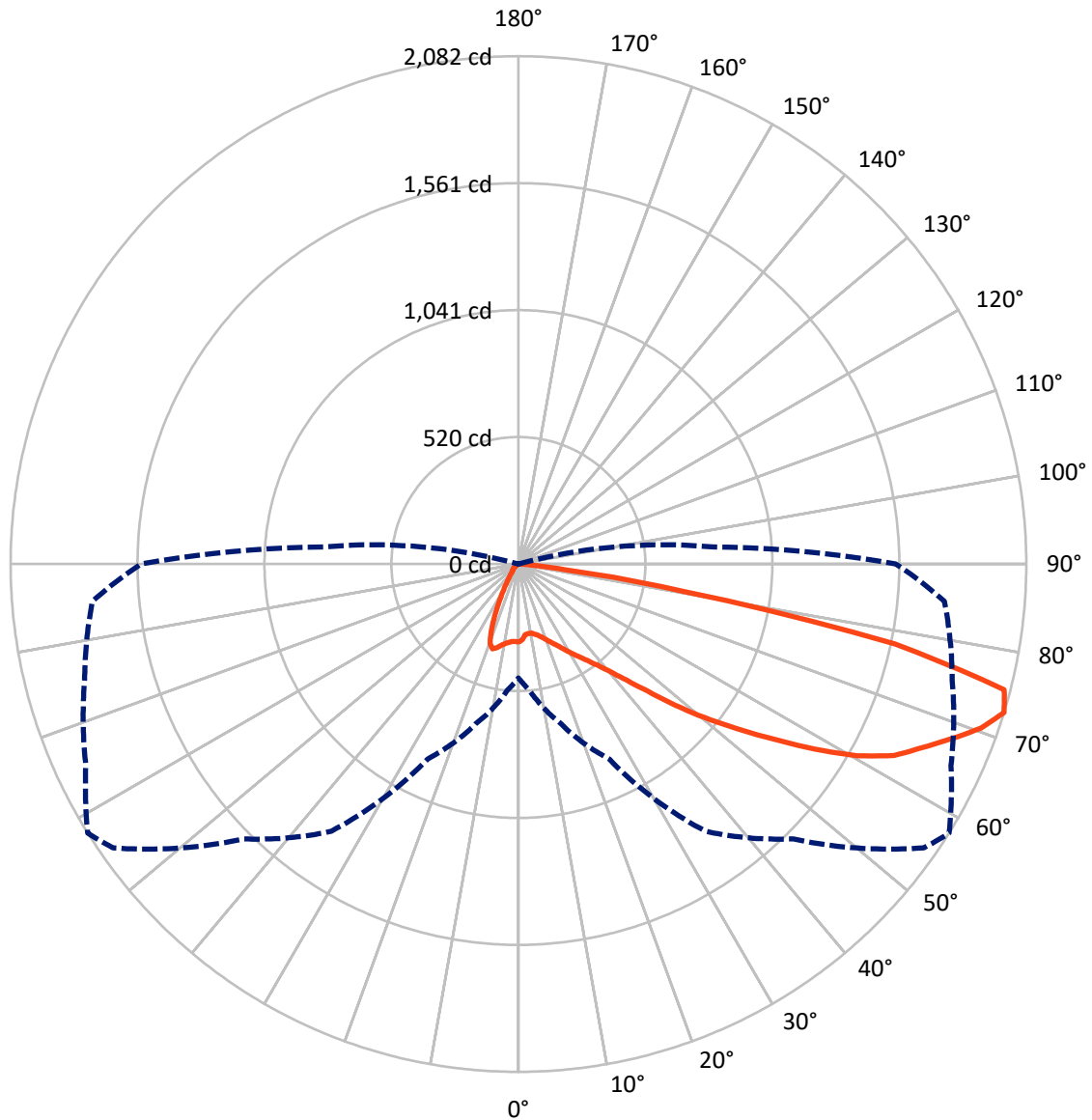


Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Medium - Non-Cutoff

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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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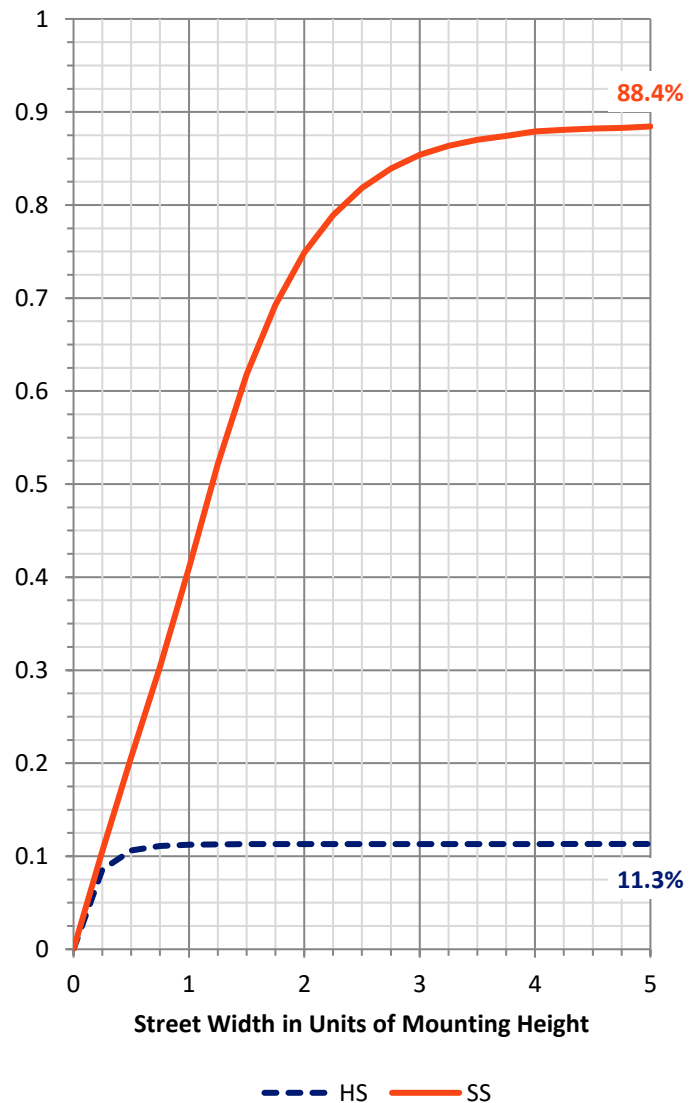
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	346.4	0.0	346.4
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	2678.7	0.0	2678.7
	% Fixture	88.6	0.0	88.6
Total	Lumens	3025.0	0.0	3025.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.2	1.0
10°-20°	83.5	2.8
20°-30°	129.3	4.3
30°-40°	201.1	6.6
40°-50°	391.4	12.9
50°-60°	711.5	23.5
60°-70°	853.6	28.2
70°-80°	588.9	19.5
80°-90°	36.5	1.2
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°	3025.0	100.0
0°-180°	3025.0	100.0

Coefficient of Utilization



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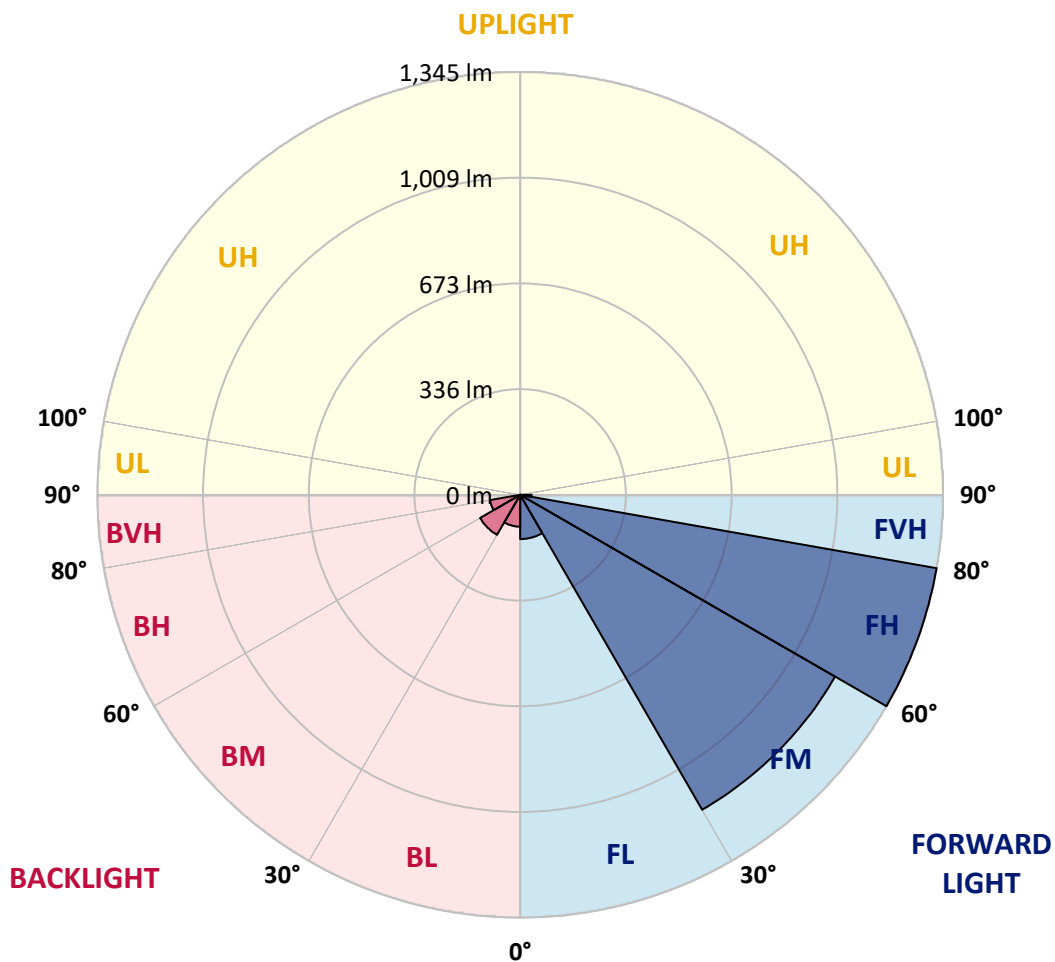
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	140.6	4.6			
FM	(30°-60°)	1157.0	38.2			
FH	(60°-80°)	1345.1	44.5			G1/1800
FVH	(80°-90°)	35.9	1.2			G1/100
BL	(0°-30°)	101.4	3.4	B0/110		
BM	(30°-60°)	147.0	4.9	B0/220		
BH	(60°-80°)	97.3	3.2	B0/110		G0/110
BVH	(80°-90°)	0.6	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°	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3
2.5°	294.2	294.2	297.4	297.4	300.5	303.6	306.8	309.9	309.9	313.0	313.0
5°	278.6	278.6	281.7	281.7	281.7	288.0	291.1	291.1	297.4	306.8	313.0
7.5°	275.5	275.5	275.5	275.5	278.6	281.7	284.8	288.0	294.2	303.6	319.3
10°	275.5	275.5	275.5	275.5	275.5	278.6	284.8	288.0	297.4	313.0	328.7
12.5°	275.5	275.5	275.5	275.5	275.5	278.6	288.0	294.2	306.8	325.5	347.4
15°	278.6	275.5	275.5	272.3	275.5	284.8	300.5	303.6	322.4	347.4	369.4
17.5°	281.7	278.6	275.5	275.5	281.7	294.2	313.0	316.1	338.1	369.4	394.4
20°	288.0	284.8	281.7	281.7	291.1	306.8	325.5	331.8	353.7	391.3	419.4
22.5°	291.1	288.0	284.8	291.1	303.6	319.3	341.2	350.6	375.6	416.3	441.3
25°	294.2	291.1	291.1	297.4	313.0	334.9	363.1	369.4	397.5	444.5	463.3
27.5°	300.5	300.5	297.4	306.8	328.7	353.7	388.1	394.4	425.7	472.7	488.3
30°	334.9	334.9	325.5	325.5	341.2	372.5	410.0	422.6	453.9	507.1	513.3
32.5°	385.0	388.1	375.6	363.1	369.4	394.4	438.2	450.7	488.3	538.4	541.5
35°	450.7	460.1	444.5	413.2	406.9	425.7	469.5	485.2	529.0	579.1	575.9
37.5°	541.5	541.5	544.6	482.0	466.4	469.5	510.2	525.9	575.9	635.4	619.8
40°	669.8	657.3	629.2	575.9	541.5	538.4	563.4	579.1	635.4	701.1	676.1
42.5°	835.7	817.0	757.5	704.3	644.8	635.4	644.8	651.1	701.1	776.3	741.8
45°	1051.7	1023.6	986.0	910.9	813.8	763.8	748.1	741.8	785.7	873.3	823.2
47.5°	1320.9	1274.0	1233.3	1148.8	1076.8	954.7	876.4	863.9	892.1	973.5	914.0
50°	1571.3	1496.2	1436.7	1374.1	1346.0	1214.5	1007.9	989.1	1004.8	1086.2	1014.2
52.5°	1724.7	1624.5	1577.6	1543.2	1530.6	1471.2	1164.4	1120.6	1130.0	1211.4	1114.3
55°	1633.9	1643.3	1649.6	1665.2	1687.1	1659.0	1330.3	1264.6	1270.8	1336.6	1208.2
57.5°	1533.8	1561.9	1630.8	1721.6	1849.9	1799.8	1480.6	1430.5	1424.2	1458.6	1274.0
60°	1430.5	1458.6	1568.2	1731.0	1931.3	1893.7	1621.4	1596.4	1565.1	1536.9	1333.4
62.5°	1292.7	1311.5	1452.4	1709.1	1906.3	1937.6	1740.4	1727.8	1668.4	1605.8	1414.8
65°	1101.8	1114.3	1264.6	1596.4	1849.9	1896.9	1812.3	1815.5	1752.9	1674.6	1518.1
67.5°	932.8	954.7	1079.9	1383.5	1749.7	1831.1	1887.5	1912.5	1840.5	1762.3	1618.3
70°	788.8	804.4	898.3	1170.7	1568.2	1734.1	1978.2	2012.7	1921.9	1824.9	1702.8
72.5°	466.4	519.6	679.2	882.7	1336.6	1593.2	2028.3	2081.5	1956.3	1840.5	1752.9
75°	115.8	122.1	294.2	566.6	982.9	1299.0	1972.0	2056.5	1934.4	1768.5	1543.2
77.5°	59.5	62.6	78.3	222.2	482.0	735.6	1521.2	1577.6	1524.4	1317.8	885.8
80°	21.9	21.9	25.0	68.9	194.1	187.8	660.5	691.8	710.5	541.5	225.4
82.5°	9.4	9.4	15.7	31.3	125.2	53.2	159.6	194.1	169.0	100.2	31.3
85°	6.3	6.3	9.4	15.7	56.3	21.9	37.6	53.2	47.0	31.3	15.7
87.5°	6.3	6.3	6.3	9.4	31.3	9.4	12.5	15.7	18.8	18.8	6.3
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°	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3
2.5°	313.0	316.1	316.1	316.1	319.3	319.3	319.3	322.4	322.4	322.4	322.4
5°	313.0	316.1	316.1	316.1	319.3	319.3	319.3	322.4	322.4	322.4	325.5
7.5°	322.4	322.4	325.5	325.5	322.4	319.3	316.1	316.1	316.1	316.1	319.3
10°	334.9	338.1	338.1	334.9	328.7	322.4	316.1	309.9	306.8	309.9	309.9
12.5°	353.7	353.7	353.7	347.4	338.1	328.7	319.3	300.5	278.6	266.1	269.2
15°	375.6	375.6	372.5	363.1	350.6	331.8	281.7	219.1	187.8	169.0	169.0
17.5°	400.7	400.7	394.4	378.7	356.8	284.8	187.8	131.5	103.3	93.9	93.9
20°	422.6	425.7	413.2	391.3	328.7	194.1	109.6	81.4	75.1	72.0	72.0
22.5°	444.5	447.6	432.0	397.5	256.7	118.9	75.1	72.0	68.9	65.7	65.7
25°	469.5	469.5	444.5	378.7	172.2	78.3	68.9	65.7	62.6	59.5	59.5
27.5°	491.4	488.3	453.9	328.7	106.4	65.7	62.6	59.5	56.3	53.2	53.2
30°	510.2	504.0	460.1	247.3	68.9	59.5	56.3	53.2	47.0	43.8	43.8
32.5°	532.1	519.6	460.1	165.9	56.3	53.2	50.1	43.8	37.6	34.4	31.3
35°	563.4	544.6	453.9	100.2	50.1	43.8	40.7	34.4	28.2	25.0	25.0
37.5°	597.9	569.7	428.8	62.6	43.8	37.6	31.3	25.0	21.9	18.8	18.8
40°	644.8	601.0	381.9	47.0	37.6	31.3	25.0	18.8	15.7	12.5	12.5
42.5°	701.1	644.8	322.4	40.7	34.4	25.0	18.8	12.5	12.5	9.4	9.4
45°	766.9	701.1	250.4	37.6	28.2	21.9	12.5	9.4	9.4	9.4	9.4
47.5°	848.3	757.5	169.0	34.4	25.0	15.7	9.4	6.3	6.3	6.3	6.3
50°	935.9	823.2	97.0	31.3	21.9	12.5	6.3	6.3	6.3	3.1	3.1
52.5°	1026.7	892.1	59.5	28.2	15.7	9.4	6.3	3.1	3.1	3.1	3.1
55°	1092.4	932.8	43.8	25.0	12.5	6.3	3.1	3.1	3.1	3.1	3.1
57.5°	1142.5	954.7	34.4	21.9	9.4	6.3	3.1	3.1	3.1	3.1	3.1
60°	1205.1	970.3	31.3	18.8	6.3	3.1	3.1	3.1	3.1	3.1	3.1
62.5°	1311.5	992.3	28.2	12.5	6.3	3.1	3.1	3.1	0.0	0.0	0.0
65°	1439.9	995.4	21.9	9.4	3.1	3.1	3.1	0.0	0.0	0.0	0.0
67.5°	1571.3	976.6	15.7	6.3	3.1	3.1	0.0	0.0	0.0	0.0	0.0
70°	1633.9	923.4	9.4	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1546.3	801.3	6.3	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	1148.8	347.4	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	554.0	131.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	115.8	31.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	0.0	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)