

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: P572995

Luminaire Tested: **ARCH-S-PA2-20-740-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-14)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-20-740-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2841 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

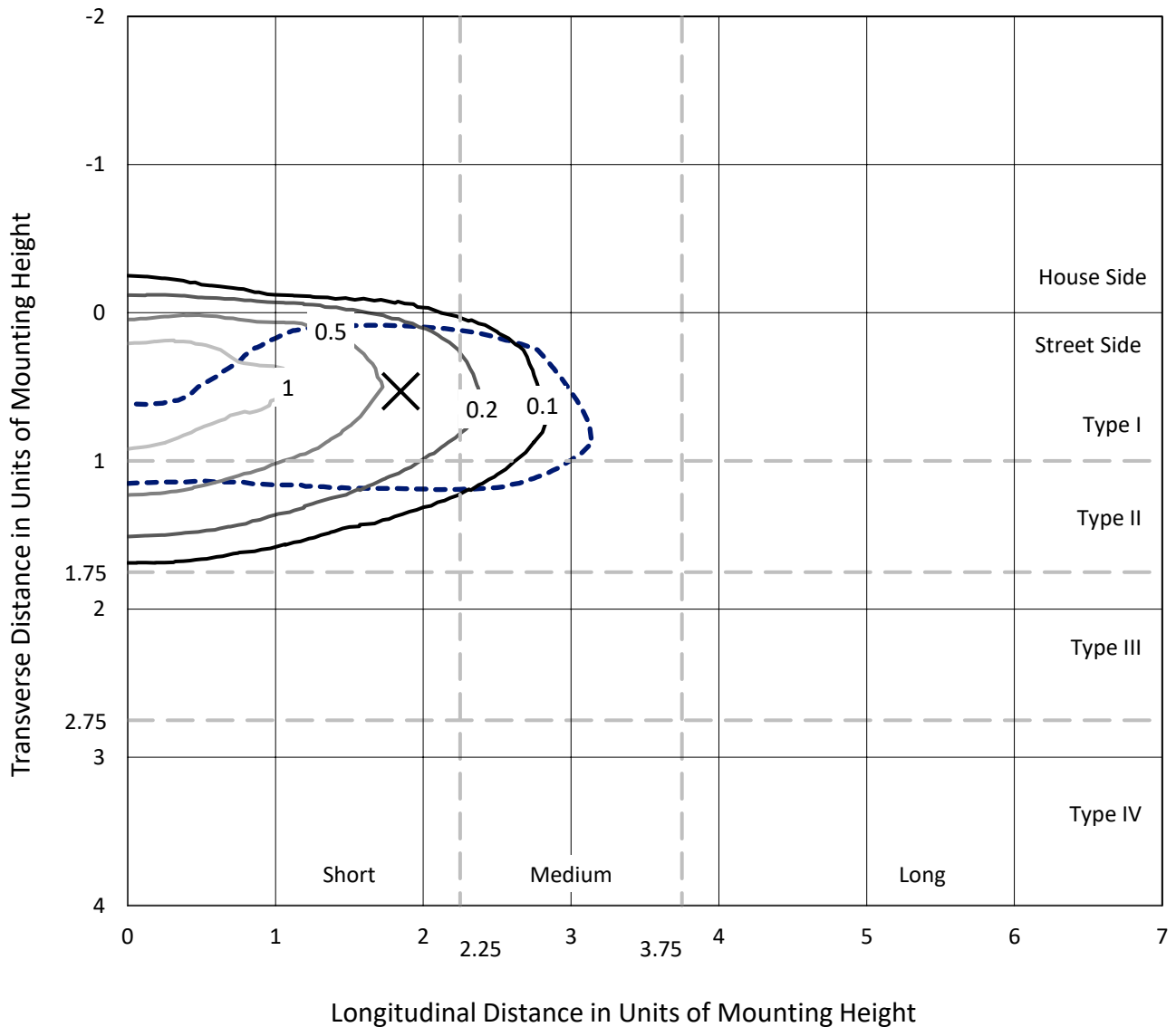
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

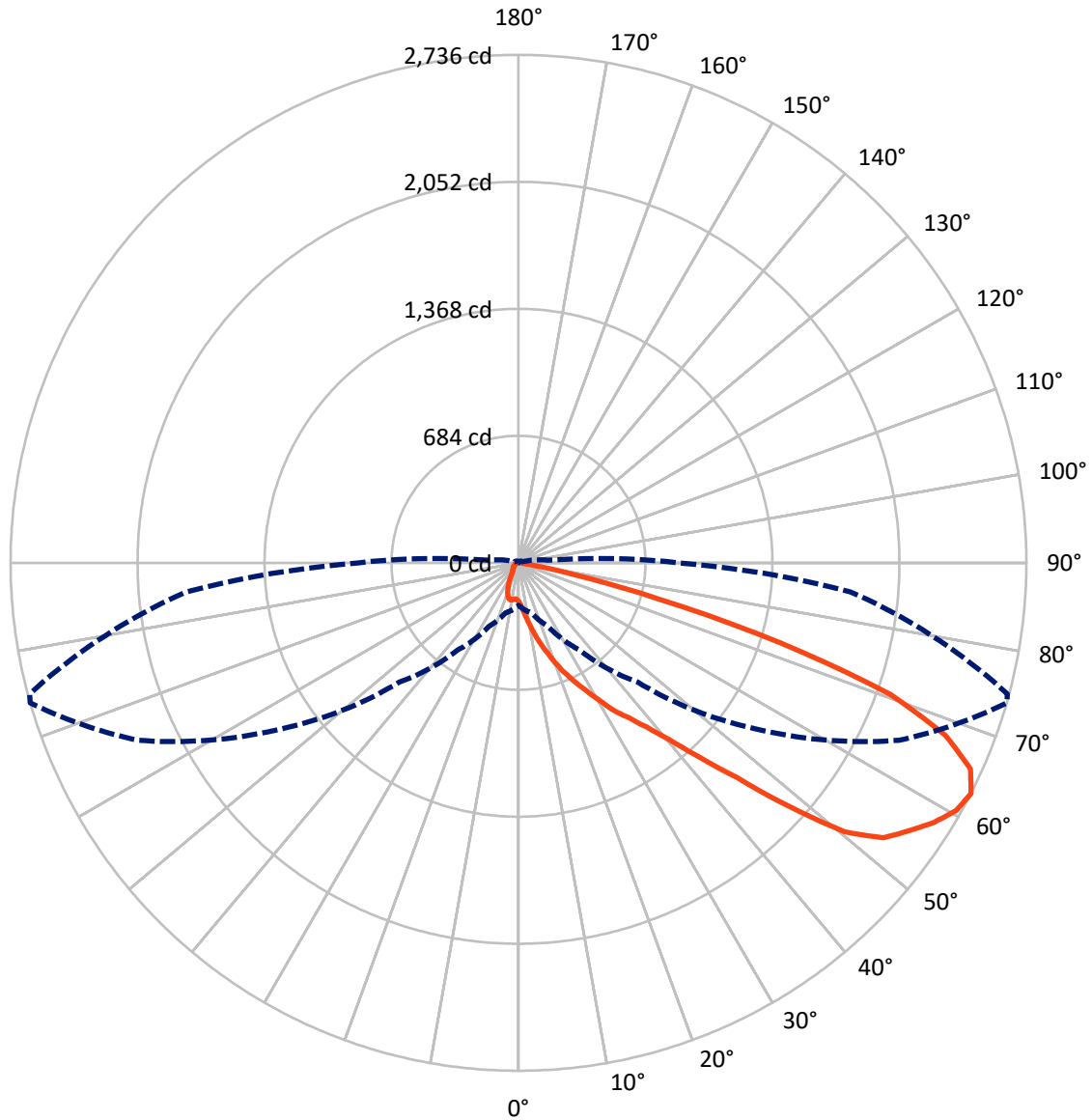
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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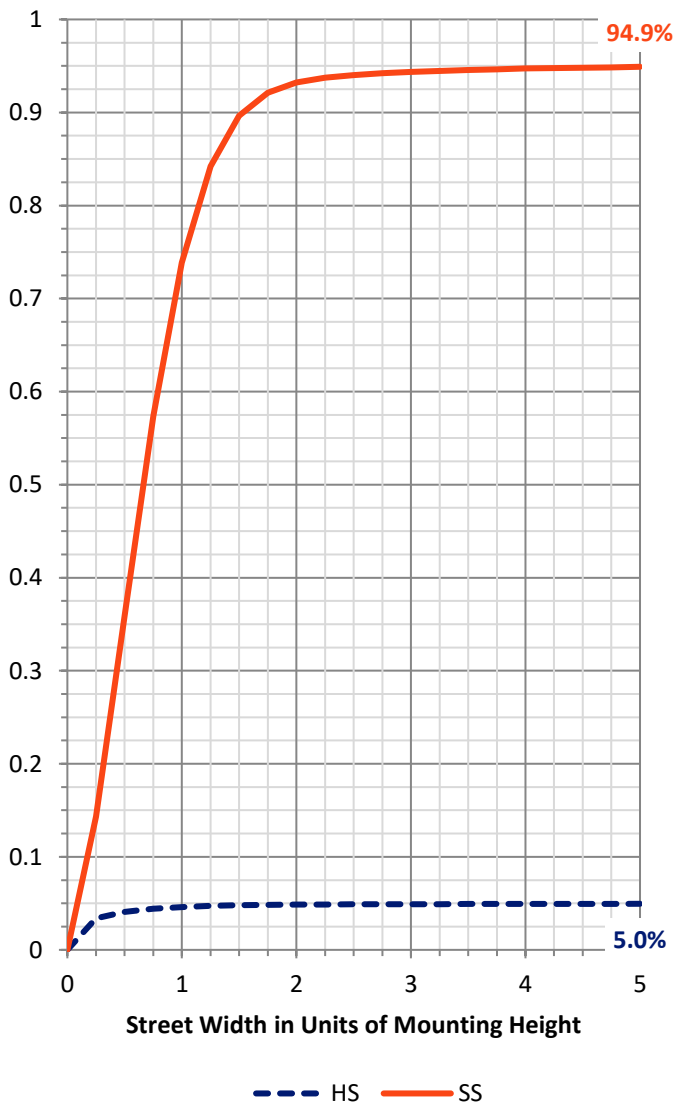
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	141.7	0.0	141.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	2699.3	0.0	2699.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	2841.0	0.0	2841.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.0	0.9
10°-20°	109.3	3.8
20°-30°	234.5	8.3
30°-40°	411.2	14.5
40°-50°	637.5	22.4
50°-60°	734.9	25.9
60°-70°	516.3	18.2
70°-80°	160.9	5.7
80°-90°	10.6	0.4
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°	2841.0	100.0
0°-180°	2841.0	100.0

Coefficient of Utilization

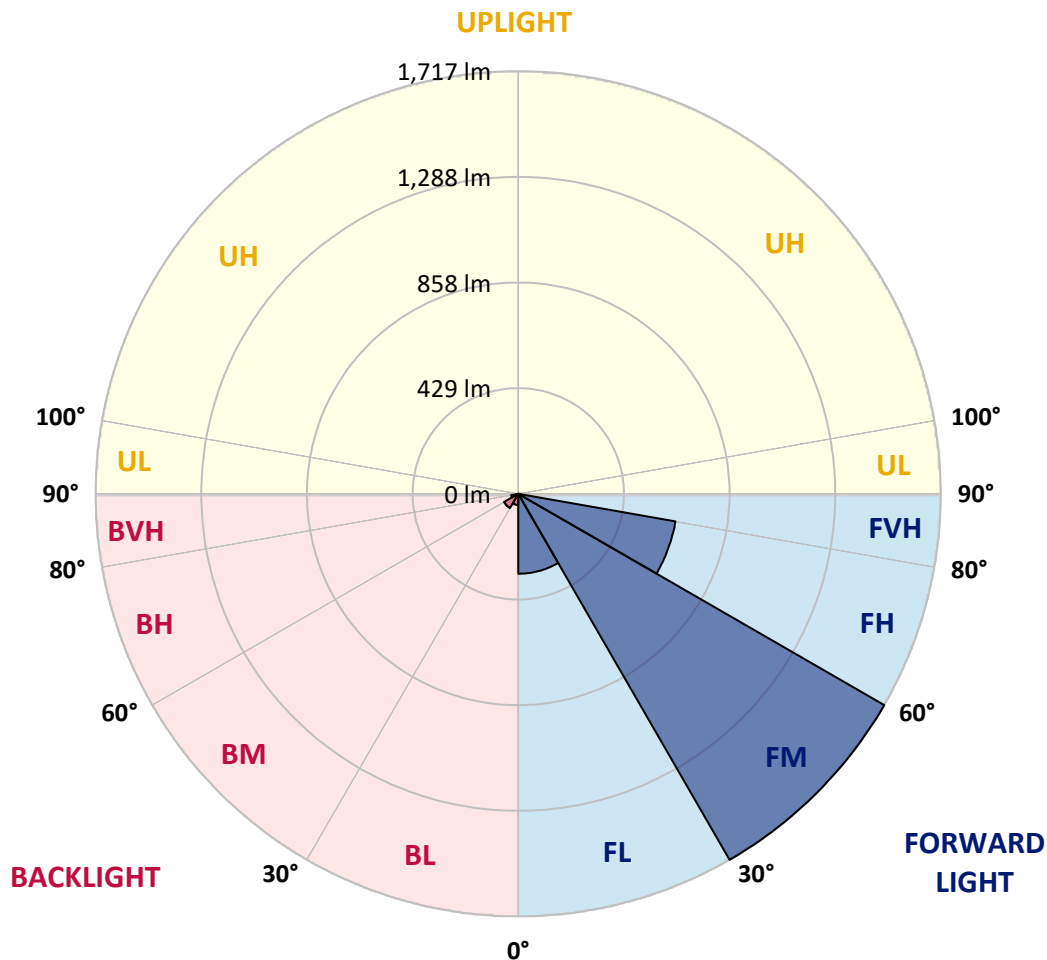


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	324.7	11.4			
FM (30°-60°)	1717.0	60.4			
FH (60°-80°)	648.4	22.8			G0/660
FVH (80°-90°)	9.2	0.3			G0/10
BL (0°-30°)	45.0	1.6	B0/110		
BM (30°-60°)	66.6	2.3	B0/220		
BH (60°-80°)	28.7	1.0	B0/110		G0/110
BVH (80°-90°)	1.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0
2.5°	289.0	284.0	278.0	273.0	263.0	256.0	247.0	237.0	226.0	225.0	216.0
5°	404.9	389.9	389.9	376.9	361.9	335.0	310.0	279.0	256.0	254.0	230.0
7.5°	523.9	511.9	504.9	484.9	460.9	430.9	390.9	339.0	297.0	290.0	251.0
10°	634.9	625.9	612.9	596.9	575.9	526.9	476.9	408.9	342.0	337.0	276.0
12.5°	720.9	709.9	703.9	696.9	669.9	630.9	565.9	479.9	399.9	388.9	301.0
15°	785.9	780.9	774.9	774.9	760.9	722.9	655.9	555.9	455.9	442.9	333.0
17.5°	837.9	831.9	830.9	836.9	832.9	805.9	742.9	628.9	513.9	503.9	365.9
20°	895.9	887.9	887.9	892.9	891.9	876.9	821.9	712.9	581.9	563.9	403.9
22.5°	977.9	972.9	968.9	960.9	954.9	940.9	892.9	794.9	646.9	629.9	442.9
25°	1087.8	1081.8	1063.8	1049.8	1023.9	1002.9	961.9	867.9	712.9	693.9	480.9
27.5°	1194.8	1182.8	1165.8	1147.8	1118.8	1082.8	1031.9	936.9	781.9	761.9	519.9
30°	1307.8	1298.8	1277.8	1248.8	1212.8	1172.8	1111.8	1019.9	860.9	838.9	561.9
32.5°	1397.8	1383.8	1364.8	1336.8	1299.8	1271.8	1205.8	1110.8	951.9	922.9	605.9
35°	1469.8	1458.8	1433.8	1406.8	1378.8	1370.8	1298.8	1184.8	1024.9	997.9	652.9
37.5°	1515.8	1504.8	1483.8	1456.8	1445.8	1459.8	1412.8	1285.8	1122.8	1088.8	706.9
40°	1551.8	1538.8	1521.8	1509.8	1505.8	1544.8	1539.8	1416.8	1251.8	1231.8	780.9
42.5°	1577.8	1564.8	1553.8	1552.8	1578.8	1654.8	1710.8	1599.8	1431.8	1390.8	875.9
45°	1544.8	1533.8	1539.8	1574.8	1637.8	1757.7	1917.7	1858.7	1648.8	1619.8	1027.9
47.5°	1452.8	1445.8	1472.8	1536.8	1653.8	1820.7	2117.7	2142.7	1958.7	1914.7	1224.8
50°	1308.8	1307.8	1350.8	1437.8	1603.8	1844.7	2218.7	2415.7	2276.7	2231.7	1384.8
52.5°	1113.8	1109.8	1172.8	1293.8	1485.8	1799.7	2237.7	2524.6	2460.6	2407.7	1485.8
55°	892.9	883.9	958.9	1091.8	1311.8	1668.8	2186.7	2548.6	2548.6	2500.6	1560.8
57.5°	627.9	641.9	703.9	863.9	1096.8	1472.8	2060.7	2526.6	2637.6	2596.6	1661.8
60°	395.9	401.9	469.9	598.9	831.9	1210.8	1835.7	2431.6	2708.6	2684.6	1742.7
62.5°	228.0	247.0	281.0	378.9	573.9	909.9	1557.8	2260.7	2735.6	2725.6	1795.7
65°	139.0	141.0	157.0	214.0	352.9	620.9	1246.8	2022.7	2674.6	2683.6	1785.7
67.5°	104.0	104.0	109.0	135.0	201.0	394.9	919.9	1733.7	2479.6	2508.6	1691.8
70°	90.0	90.0	91.0	99.0	124.0	234.0	607.9	1397.8	2125.7	2122.7	1397.8
72.5°	71.0	74.0	80.0	84.0	94.0	137.0	355.9	976.9	1476.8	1511.8	899.9
75°	57.0	58.0	66.0	73.0	79.0	93.0	168.0	542.9	774.9	774.9	395.9
77.5°	44.0	46.0	51.0	58.0	66.0	66.0	70.0	210.0	300.0	290.0	117.0
80°	28.0	29.0	37.0	46.0	55.0	47.0	38.0	70.0	82.0	79.0	32.0
82.5°	17.0	18.0	24.0	37.0	37.0	26.0	24.0	29.0	26.0	24.0	13.0
85°	5.0	6.0	17.0	24.0	21.0	10.0	12.0	13.0	12.0	11.0	7.0
87.5°	1.0	1.0	5.0	6.0	5.0	5.0	4.0	5.0	5.0	5.0	3.0
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°	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0
2.5°	211.0	207.0	199.0	193.0	188.0	183.0	179.0	178.0	176.0	176.0	175.0
5°	220.0	211.0	196.0	186.0	178.0	171.0	165.0	159.0	157.0	155.0	156.0
7.5°	234.0	220.0	199.0	184.0	170.0	154.0	141.0	130.0	122.0	120.0	117.0
10°	252.0	231.0	204.0	180.0	154.0	126.0	108.0	97.0	93.0	88.0	89.0
12.5°	270.0	244.0	208.0	169.0	127.0	99.0	84.0	77.0	74.0	73.0	74.0
15°	291.0	258.0	206.0	149.0	102.0	80.0	71.0	68.0	66.0	66.0	65.0
17.5°	312.0	270.0	199.0	123.0	82.0	68.0	64.0	61.0	59.0	58.0	58.0
20°	335.0	281.0	183.0	98.0	68.0	62.0	58.0	54.0	52.0	52.0	52.0
22.5°	358.9	289.0	162.0	78.0	61.0	55.0	51.0	48.0	46.0	46.0	46.0
25°	379.9	293.0	137.0	65.0	56.0	50.0	46.0	43.0	42.0	41.0	41.0
27.5°	399.9	292.0	111.0	57.0	50.0	45.0	41.0	39.0	37.0	37.0	37.0
30°	419.9	286.0	88.0	52.0	46.0	40.0	37.0	35.0	34.0	33.0	33.0
32.5°	436.9	276.0	69.0	48.0	42.0	36.0	33.0	31.0	31.0	30.0	30.0
35°	453.9	261.0	58.0	45.0	38.0	33.0	30.0	29.0	28.0	28.0	28.0
37.5°	471.9	242.0	51.0	41.0	34.0	30.0	28.0	27.0	26.0	25.0	25.0
40°	493.9	223.0	48.0	38.0	31.0	27.0	25.0	24.0	23.0	23.0	23.0
42.5°	528.9	207.0	45.0	34.0	28.0	25.0	23.0	21.0	21.0	20.0	20.0
45°	594.9	201.0	42.0	31.0	26.0	22.0	21.0	19.0	18.0	18.0	18.0
47.5°	680.9	202.0	39.0	28.0	24.0	20.0	19.0	18.0	16.0	16.0	16.0
50°	751.9	197.0	36.0	26.0	21.0	19.0	17.0	16.0	15.0	15.0	15.0
52.5°	779.9	188.0	33.0	24.0	20.0	17.0	16.0	15.0	14.0	14.0	14.0
55°	807.9	184.0	30.0	21.0	18.0	17.0	15.0	14.0	13.0	12.0	12.0
57.5°	858.9	186.0	27.0	20.0	17.0	16.0	14.0	12.0	10.0	9.0	9.0
60°	885.9	179.0	25.0	18.0	16.0	15.0	12.0	9.0	7.0	6.0	6.0
62.5°	862.9	159.0	23.0	17.0	15.0	13.0	9.0	7.0	5.0	3.0	3.0
65°	798.9	131.0	21.0	16.0	13.0	10.0	8.0	5.0	3.0	2.0	2.0
67.5°	717.9	103.0	19.0	15.0	12.0	9.0	7.0	4.0	2.0	1.0	1.0
70°	579.9	74.0	18.0	14.0	11.0	8.0	6.0	4.0	2.0	1.0	1.0
72.5°	373.9	48.0	16.0	13.0	10.0	8.0	5.0	3.0	2.0	1.0	1.0
75°	173.0	32.0	15.0	12.0	10.0	7.0	5.0	4.0	2.0	1.0	1.0
77.5°	51.0	23.0	14.0	11.0	9.0	7.0	5.0	4.0	2.0	1.0	1.0
80°	21.0	16.0	11.0	10.0	9.0	7.0	5.0	4.0	2.0	1.0	1.0
82.5°	10.0	7.0	5.0	4.0	5.0	5.0	4.0	4.0	2.0	1.0	1.0
85°	5.0	3.0	2.0	2.0	2.0	1.0	1.0	2.0	2.0	1.0	1.0
87.5°	3.0	2.0	2.0	2.0	1.0	1.0	1.0	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)