

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: P573001

Luminaire Tested: **ARCH-S-PA2-20-740-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-20)
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-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2707 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

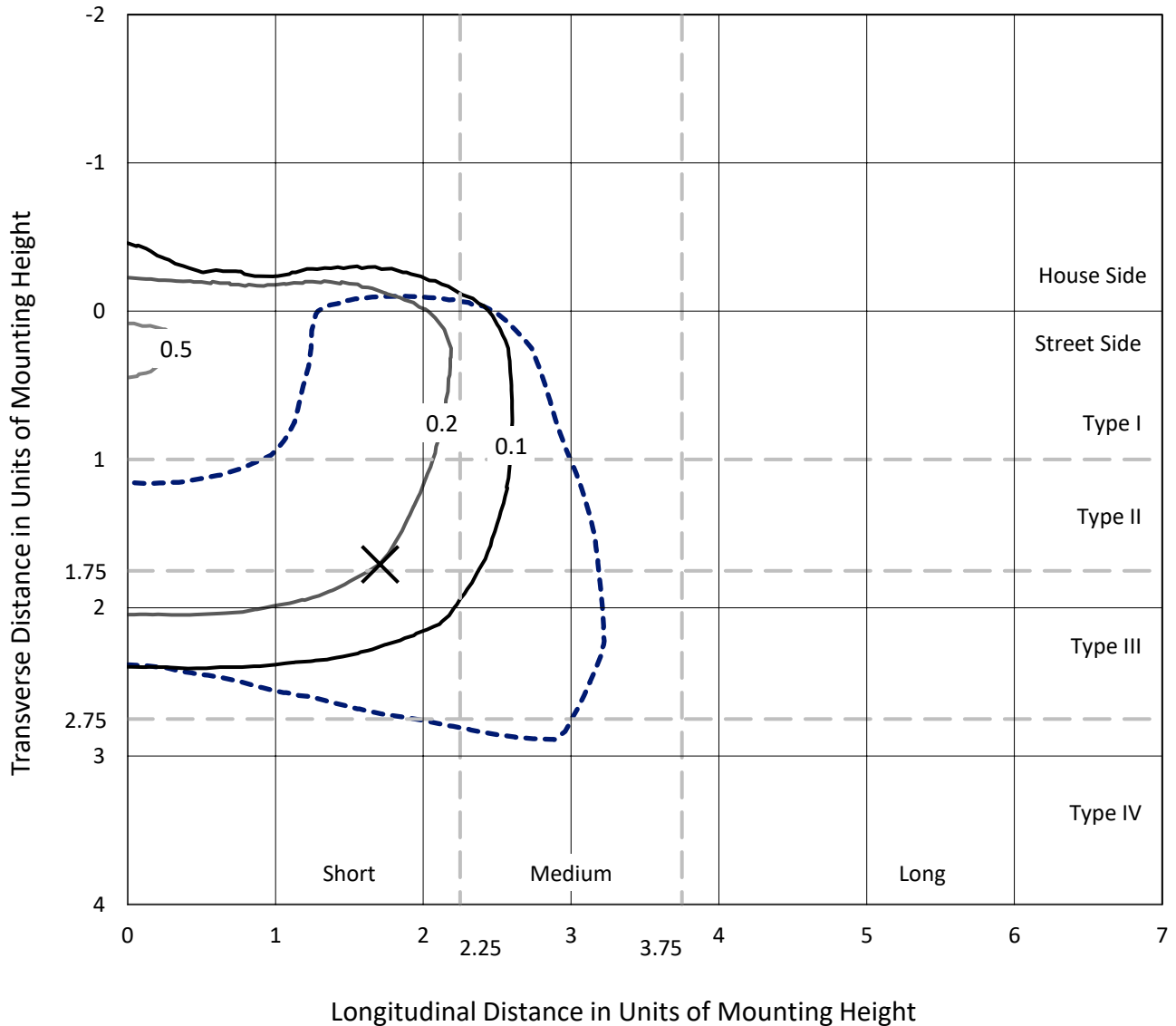
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

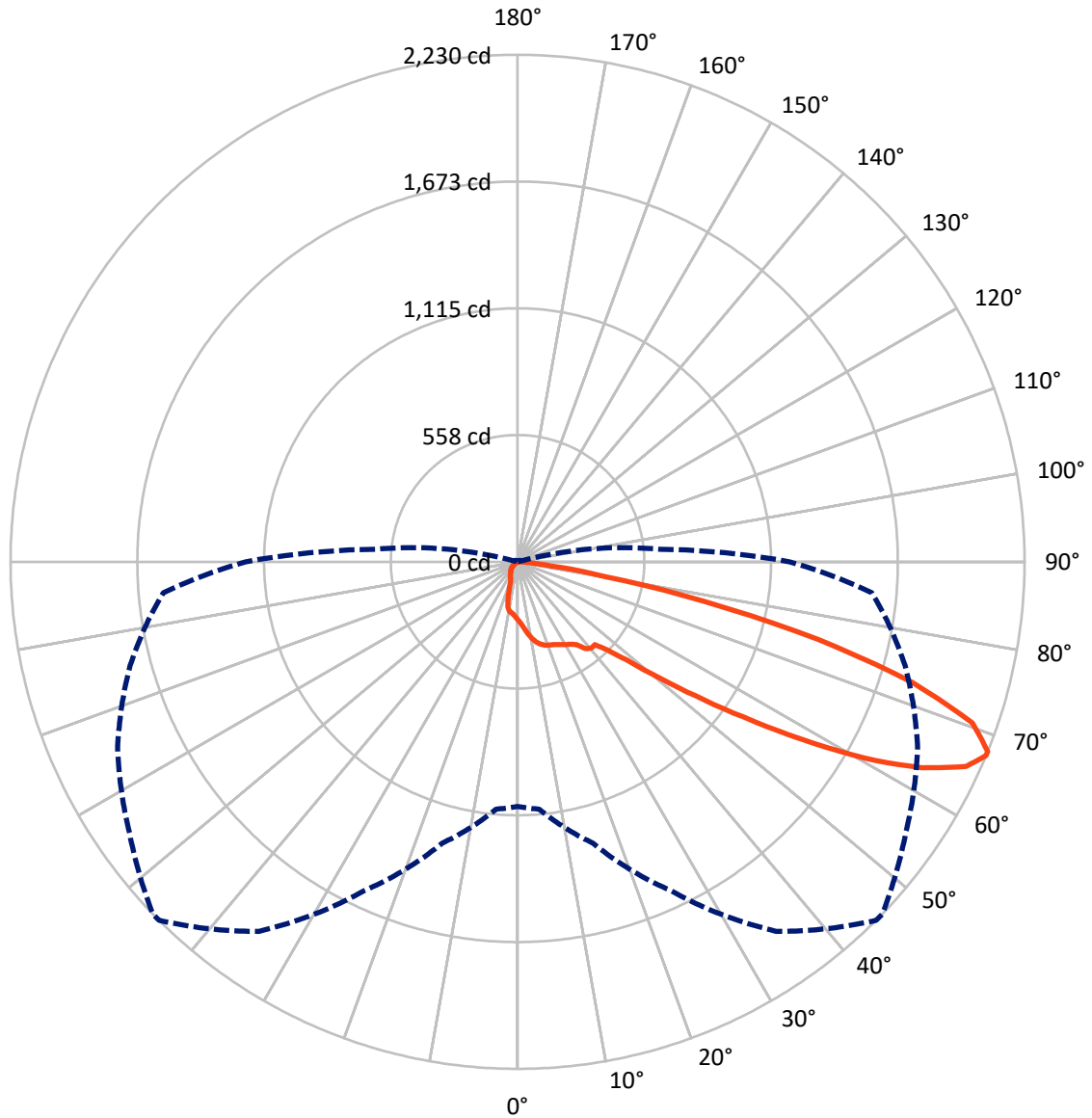
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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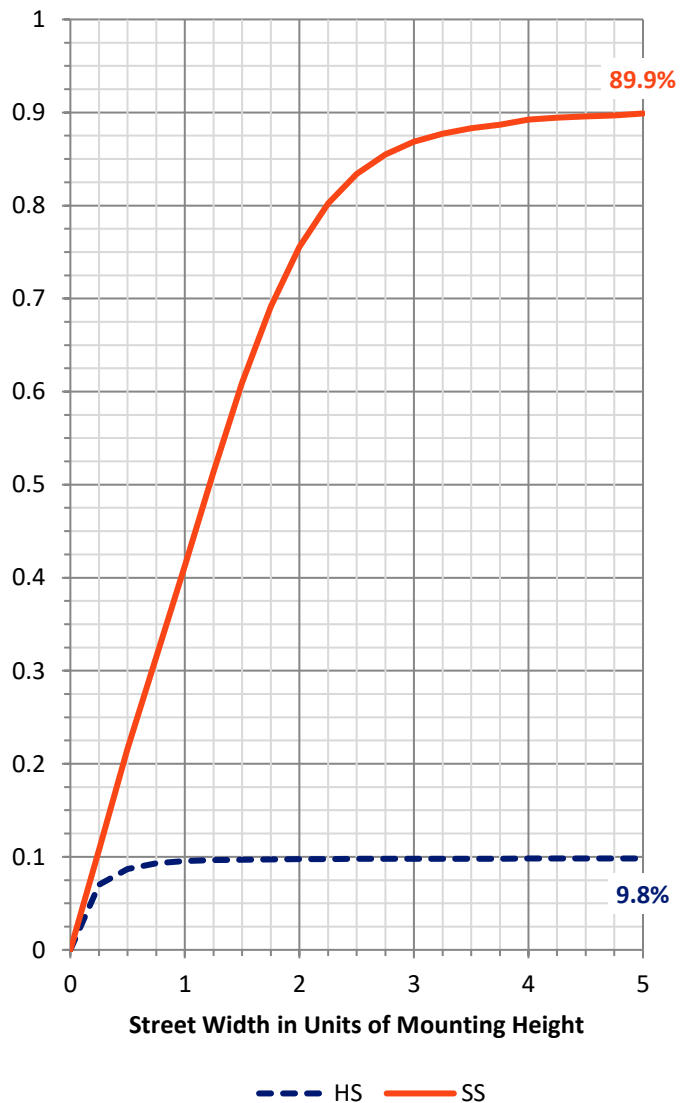
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	268.2	0.0	268.2
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	2438.8	0.0	2438.8
	% Fixture	90.1	0.0	90.1
Total	Lumens	2707.0	0.0	2707.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.7	0.9
10°-20°	77.7	2.9
20°-30°	124.3	4.6
30°-40°	178.8	6.6
40°-50°	313.7	11.6
50°-60°	661.0	24.4
60°-70°	914.1	33.8
70°-80°	382.7	14.1
80°-90°	28.9	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°	2707.0	100.0
0°-180°	2707.0	100.0

Coefficient of Utilization



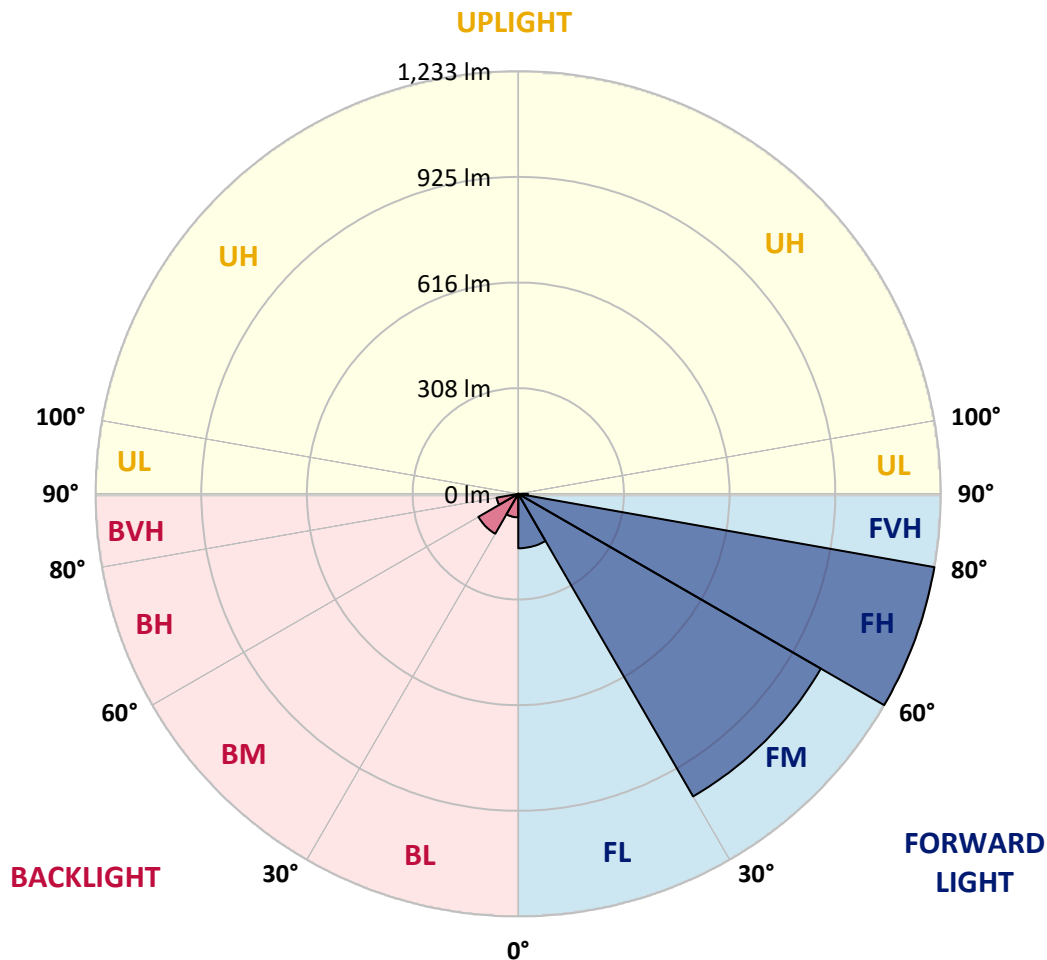
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	158.9	5.9			
FM (30°-60°)	1019.2	37.7			
FH (60°-80°)	1232.7	45.5			G1/1800
FVH (80°-90°)	28.0	1.0			G1/100
BL (0°-30°)	68.7	2.5	B0/110		
BM (30°-60°)	134.4	5.0	B0/220		
BH (60°-80°)	64.1	2.4	B0/110		G0/110
BVH (80°-90°)	1.0	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0
2.5°	285.0	280.0	279.0	278.0	275.0	271.0	272.0	269.0	264.0	261.0	258.0
5°	320.0	315.0	313.0	307.0	301.0	292.0	292.0	284.0	275.0	267.0	259.0
7.5°	356.0	352.0	348.0	339.0	330.0	318.0	317.0	305.0	291.0	279.0	266.0
10°	386.0	383.0	378.0	367.0	355.0	342.0	339.0	328.0	310.0	294.0	277.0
12.5°	410.0	407.0	400.0	389.0	374.0	361.0	360.0	346.0	328.0	311.0	290.0
15°	428.0	423.0	415.0	403.0	388.0	376.0	374.0	362.0	345.0	326.0	301.0
17.5°	431.0	428.0	421.0	408.0	395.0	385.0	384.0	375.0	360.0	340.0	314.0
20°	423.0	422.0	416.0	406.0	396.0	391.0	390.0	384.0	372.0	354.0	328.0
22.5°	411.0	410.0	406.0	401.0	397.0	396.0	396.0	394.0	387.0	370.0	346.0
25°	403.0	402.0	400.0	397.0	397.0	403.0	404.0	406.0	400.0	387.0	361.0
27.5°	404.0	402.0	400.0	397.0	401.0	412.0	413.0	418.0	413.0	401.0	378.0
30°	418.0	415.0	409.0	402.0	407.0	422.0	423.0	429.0	425.0	419.0	397.0
32.5°	440.0	438.0	426.0	414.0	417.0	432.0	434.0	445.0	450.0	441.0	414.0
35°	472.0	465.0	450.0	438.0	436.0	447.0	450.0	468.0	481.0	459.0	424.0
37.5°	498.0	492.0	468.0	449.0	460.0	485.0	486.0	508.0	497.0	461.0	440.0
40°	586.0	585.0	543.0	483.0	471.0	499.0	503.0	507.0	502.0	484.0	475.0
42.5°	728.0	716.0	669.0	577.0	495.0	498.0	500.0	521.0	547.0	539.0	542.0
45°	882.0	872.0	819.0	703.0	577.0	552.0	554.0	588.0	638.0	648.0	664.0
47.5°	1024.0	1008.0	978.0	861.0	717.0	644.0	648.0	689.0	772.0	794.0	819.0
50°	1144.0	1133.0	1105.0	1028.0	889.0	789.0	793.0	827.0	935.0	970.0	1002.0
52.5°	1318.0	1303.0	1249.0	1213.0	1108.0	978.0	969.0	1005.0	1129.0	1152.0	1195.0
55°	1478.1	1447.1	1415.1	1400.1	1356.0	1204.0	1201.0	1208.0	1311.0	1323.0	1400.1
57.5°	1546.1	1540.1	1567.1	1617.1	1627.1	1470.1	1457.1	1430.1	1511.1	1510.1	1600.1
60°	1589.1	1589.1	1661.1	1785.1	1865.1	1754.1	1736.1	1652.1	1681.1	1682.1	1765.1
62.5°	1562.1	1569.1	1681.1	1868.1	2029.1	1995.1	1983.1	1842.1	1840.1	1817.1	1846.1
65°	1395.1	1407.1	1587.1	1822.1	2089.1	2169.1	2164.1	2004.1	1946.1	1862.1	1797.1
67°	1138.0	1160.0	1378.1	1656.1	2021.1	2229.1	2230.1	2074.1	1947.1	1787.1	1624.1
67.5°	1076.0	1092.0	1281.0	1596.1	1984.1	2230.1	2230.1	2083.1	1941.1	1764.1	1564.1
70°	686.0	690.0	896.0	1235.0	1695.1	2122.1	2130.1	2015.1	1768.1	1428.1	1098.0
72.5°	339.0	330.0	473.0	795.0	1272.0	1816.1	1837.1	1721.1	1399.1	933.0	580.0
75°	133.0	142.0	206.0	423.0	797.0	1369.0	1385.1	1252.0	900.0	481.0	229.0
77.5°	59.0	59.0	88.0	190.0	419.0	840.0	848.0	764.0	475.0	198.0	70.0
80°	32.0	34.0	46.0	83.0	211.0	386.0	421.0	379.0	215.0	87.0	24.0
82.5°	16.0	17.0	28.0	47.0	106.0	146.0	154.0	161.0	99.0	54.0	10.0
85°	6.0	7.0	15.0	27.0	48.0	49.0	49.0	63.0	54.0	41.0	5.0
87.5°	1.0	2.0	7.0	11.0	19.0	17.0	15.0	20.0	30.0	26.0	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°	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0
2.5°	256.0	254.0	250.0	247.0	245.0	243.0	241.0	241.0	240.0	240.0	241.0
5°	256.0	252.0	244.0	239.0	235.0	232.0	230.0	230.0	229.0	230.0	231.0
7.5°	261.0	255.0	244.0	235.0	230.0	225.0	223.0	222.0	222.0	223.0	222.0
10°	269.0	261.0	247.0	235.0	228.0	221.0	210.0	200.0	191.0	187.0	186.0
12.5°	279.0	269.0	252.0	238.0	227.0	203.0	173.0	154.0	142.0	136.0	134.0
15°	290.0	278.0	258.0	242.0	212.0	167.0	128.0	107.0	100.0	101.0	102.0
17.5°	302.0	289.0	267.0	240.0	182.0	124.0	94.0	89.0	92.0	95.0	95.0
20°	314.0	300.0	276.0	225.0	143.0	92.0	84.0	85.0	88.0	91.0	91.0
22.5°	330.0	315.0	285.0	199.0	106.0	80.0	80.0	82.0	84.0	87.0	87.0
25°	347.0	332.0	291.0	167.0	79.0	75.0	76.0	78.0	80.0	83.0	83.0
27.5°	365.0	350.0	290.0	129.0	69.0	69.0	70.0	73.0	75.0	78.0	78.0
30°	385.0	372.0	279.0	94.0	64.0	63.0	63.0	66.0	69.0	71.0	72.0
32.5°	402.0	391.0	260.0	71.0	60.0	58.0	57.0	58.0	61.0	63.0	64.0
35°	416.0	412.0	232.0	61.0	56.0	53.0	51.0	50.0	51.0	51.0	52.0
37.5°	442.0	443.0	199.0	57.0	53.0	49.0	45.0	42.0	40.0	39.0	38.0
40°	491.0	490.0	164.0	54.0	50.0	45.0	39.0	35.0	30.0	28.0	28.0
42.5°	560.0	545.0	125.0	51.0	47.0	41.0	33.0	27.0	22.0	21.0	21.0
45°	684.0	622.0	94.0	49.0	44.0	36.0	27.0	20.0	17.0	16.0	16.0
47.5°	821.0	711.0	75.0	46.0	41.0	32.0	21.0	16.0	13.0	13.0	13.0
50°	972.0	796.0	63.0	43.0	36.0	27.0	17.0	13.0	12.0	11.0	12.0
52.5°	1137.0	863.0	55.0	39.0	31.0	22.0	14.0	12.0	10.0	10.0	10.0
55°	1285.0	908.0	46.0	34.0	26.0	18.0	13.0	10.0	9.0	8.0	7.0
57.5°	1419.1	932.0	37.0	29.0	20.0	15.0	11.0	8.0	7.0	5.0	5.0
60°	1488.1	910.0	29.0	23.0	16.0	12.0	9.0	7.0	5.0	3.0	3.0
62.5°	1499.1	853.0	23.0	18.0	14.0	10.0	7.0	5.0	3.0	2.0	2.0
65°	1403.1	753.0	19.0	15.0	11.0	8.0	6.0	4.0	2.0	1.0	1.0
67°	1231.0	648.0	17.0	13.0	10.0	7.0	5.0	3.0	2.0	1.0	0.0
67.5°	1197.0	629.0	16.0	13.0	10.0	7.0	5.0	3.0	2.0	1.0	0.0
70°	786.0	435.0	15.0	12.0	9.0	6.0	4.0	3.0	1.0	0.0	0.0
72.5°	429.0	219.0	14.0	11.0	8.0	6.0	4.0	2.0	1.0	0.0	0.0
75°	157.0	83.0	12.0	10.0	7.0	6.0	4.0	2.0	1.0	0.0	0.0
77.5°	53.0	29.0	11.0	10.0	8.0	6.0	4.0	2.0	1.0	0.0	0.0
80°	18.0	13.0	9.0	8.0	6.0	5.0	4.0	2.0	1.0	0.0	0.0
82.5°	7.0	4.0	3.0	3.0	3.0	4.0	4.0	3.0	1.0	0.0	0.0
85°	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0
87.5°	3.0	2.0	1.0	1.0	1.0	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)