

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: P573005

Luminaire Tested: **ARCH-S-PA2-20-750-U-T2R**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573005  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-20-750-U-T2R  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3705.9 lumens  
Efficiency: N/A  
Efficacy: 157.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

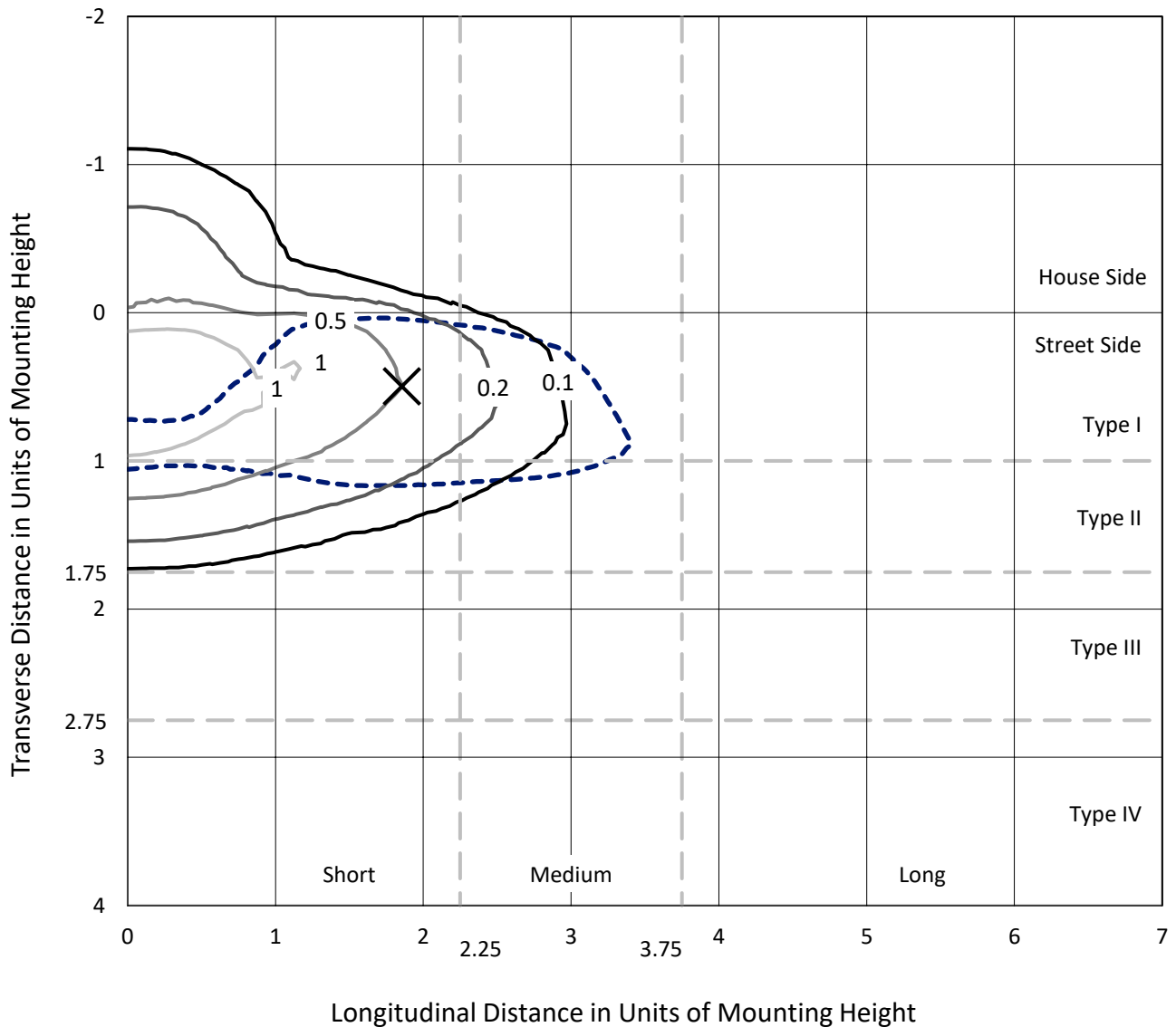
Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

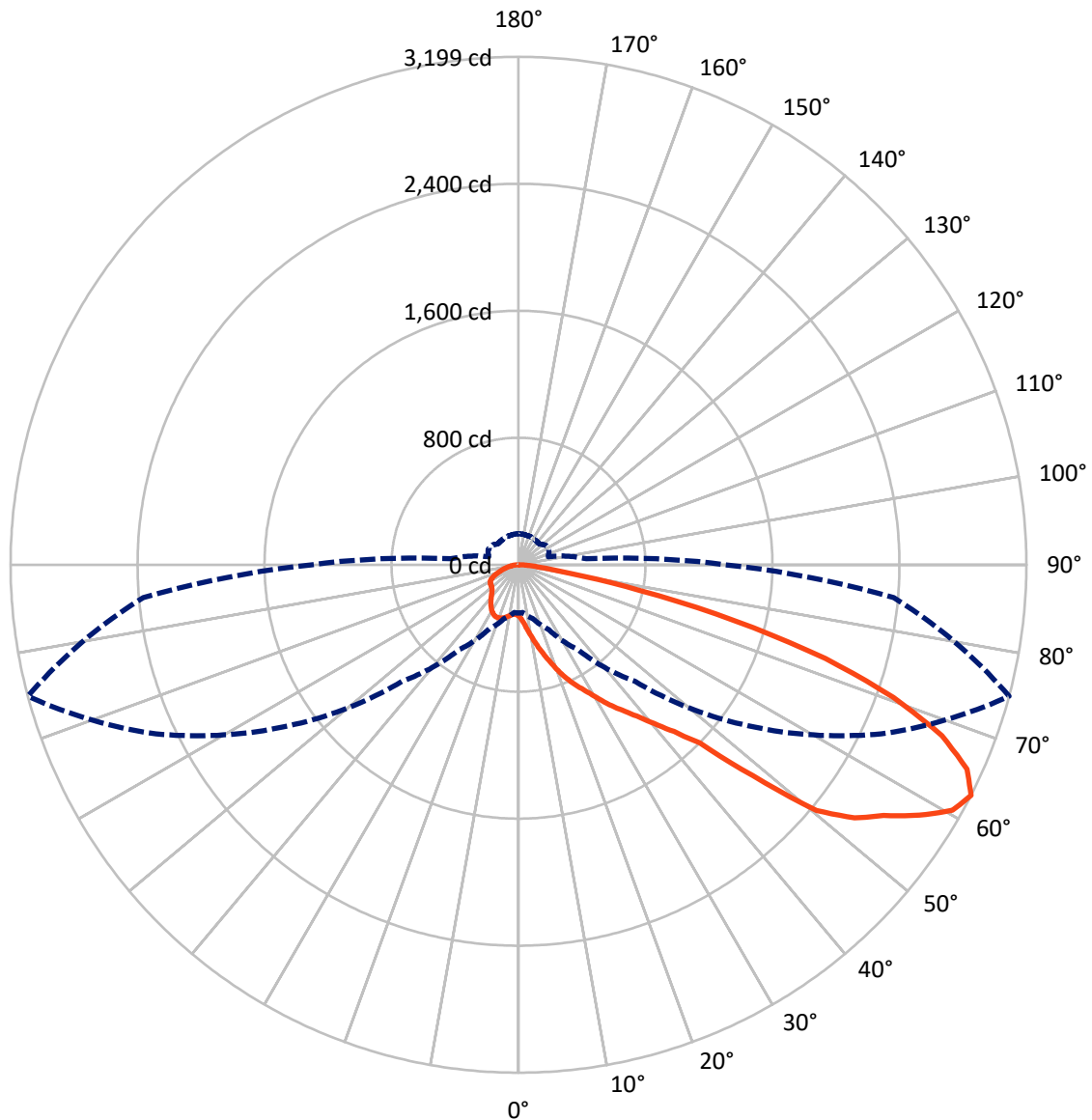
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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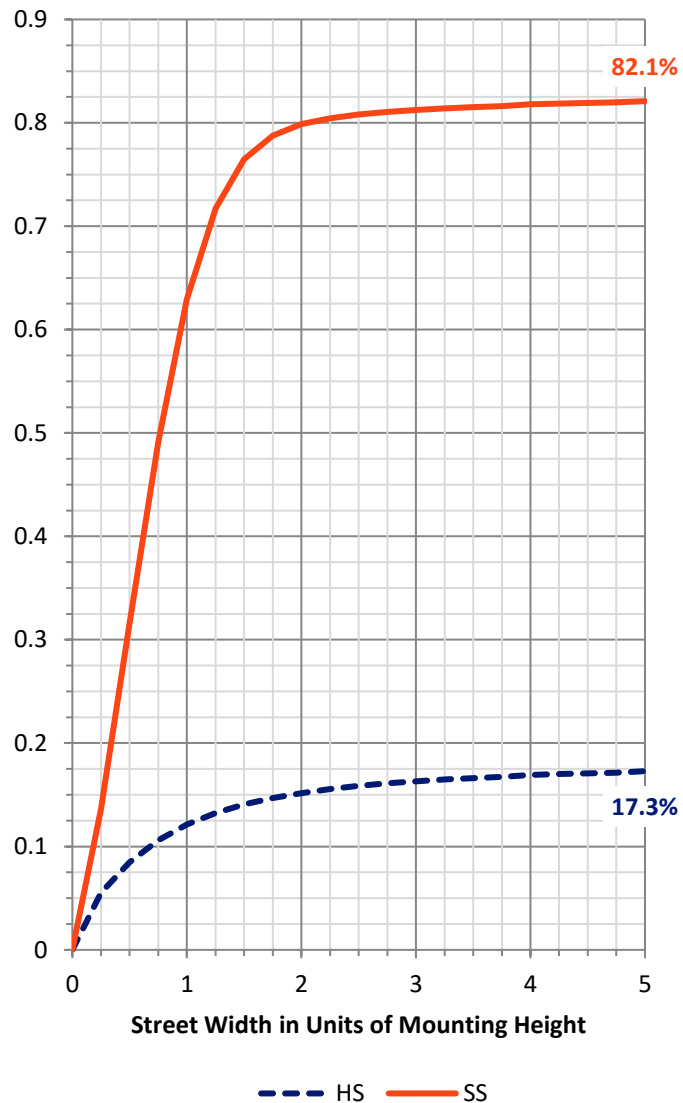
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	653.6	0.0	653.6
	% Fixture	17.6	0.0	17.6
<b>Street Side</b>	Lumens	3052.4	0.0	3052.4
	% Fixture	82.4	0.0	82.4
<b>Total</b>	Lumens	3705.9	0.0	3705.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.8	1.0
10°-20°	153.3	4.1
20°-30°	303.4	8.2
30°-40°	505.7	13.6
40°-50°	746.2	20.1
50°-60°	897.0	24.2
60°-70°	697.2	18.8
70°-80°	308.4	8.3
80°-90°	55.8	1.5
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°	3705.9	100.0
0°-180°	3705.9	100.0

**Coefficient of Utilization**



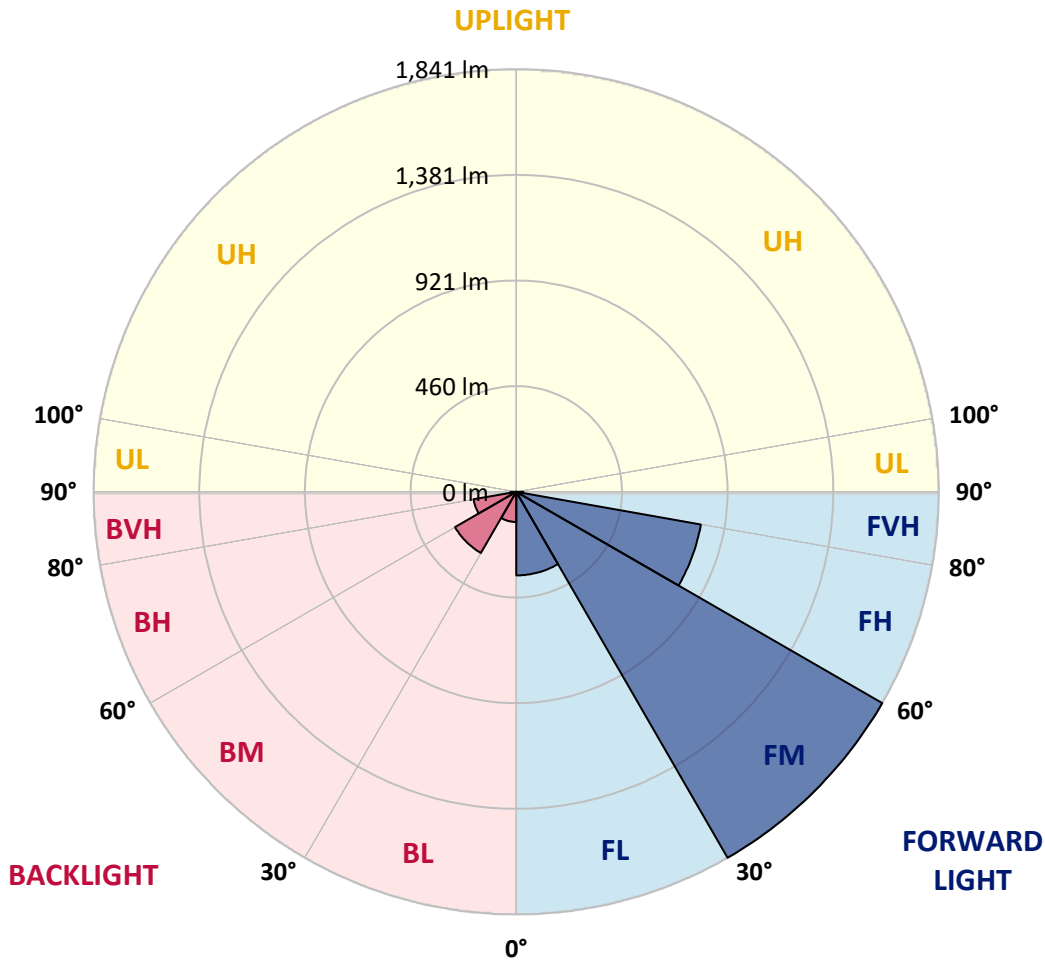
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	364.0	9.8			
FM (30°-60°)	1841.1	49.7			
FH (60°-80°)	816.5	22.0			G1/1800
FVH (80°-90°)	30.7	0.8			G1/100
BL (0°-30°)	131.5	3.5	B1/500		
BM (30°-60°)	307.8	8.3	B1/1000		
BH (60°-80°)	189.1	5.1	B1/500		G1/500
BVH (80°-90°)	25.1	0.7			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0
2.5°	413.1	401.0	401.0	388.0	389.0	378.0	366.0	354.0	341.0	331.0	326.0
5°	540.1	531.1	528.1	513.1	489.1	462.1	433.1	403.0	372.0	348.0	336.0
7.5°	659.1	652.1	648.1	631.1	598.1	569.1	523.1	468.1	415.1	370.0	352.0
10°	747.1	742.1	734.1	726.1	702.1	677.1	620.1	542.1	464.1	397.0	370.0
12.5°	811.1	804.1	804.1	803.1	787.1	764.1	711.1	627.1	521.1	427.1	390.0
15°	854.1	853.1	856.1	862.1	858.1	843.1	790.1	705.1	579.1	461.1	413.1
17.5°	886.1	882.1	888.1	904.1	916.1	910.1	866.1	780.1	643.1	498.1	438.1
20°	921.1	913.1	921.1	941.1	956.1	965.1	944.1	852.1	712.1	538.1	462.1
22.5°	988.1	987.1	983.1	989.1	999.1	1015.1	1003.1	925.1	779.1	578.1	490.1
25°	1108.1	1097.1	1086.1	1073.1	1062.1	1067.1	1057.1	993.1	840.1	622.1	514.1
27.5°	1242.2	1230.2	1210.1	1178.1	1148.1	1130.1	1109.1	1052.1	899.1	662.1	537.1
30°	1365.2	1361.2	1331.2	1296.2	1244.2	1211.1	1171.1	1120.1	970.1	706.1	561.1
32.5°	1480.2	1472.2	1442.2	1405.2	1344.2	1307.2	1252.2	1194.1	1051.1	760.1	586.1
35°	1579.2	1571.2	1536.2	1489.2	1436.2	1404.2	1341.2	1260.2	1125.1	807.1	607.1
37.5°	1654.2	1645.2	1612.2	1566.2	1519.2	1504.2	1450.2	1344.2	1209.1	866.1	633.1
40°	1696.2	1685.2	1663.2	1631.2	1592.2	1585.2	1562.2	1448.2	1315.2	938.1	671.1
42.5°	1701.2	1691.2	1679.2	1676.2	1673.2	1679.2	1690.2	1566.2	1436.2	1034.1	727.1
45°	1657.2	1651.2	1652.2	1686.2	1733.2	1788.2	1854.2	1740.2	1599.2	1217.2	853.1
47.5°	1563.2	1560.2	1582.2	1639.2	1744.2	1869.2	2056.3	2038.3	1985.2	1512.2	1015.1
50°	1411.2	1406.2	1453.2	1543.2	1693.2	1896.2	2192.3	2389.3	2433.3	1741.2	1121.1
52.5°	1193.1	1199.1	1272.2	1395.2	1576.2	1867.2	2248.3	2533.3	2649.3	1910.2	1202.1
55°	970.1	961.1	1027.1	1179.1	1403.2	1761.2	2259.3	2616.3	2789.3	2066.3	1281.2
57.5°	707.1	729.1	799.1	937.1	1180.1	1569.2	2195.3	2673.3	2977.4	2222.3	1354.2
60°	479.1	479.1	541.1	679.1	912.1	1336.2	2024.3	2652.3	3141.4	2344.3	1370.2
62.5°	305.0	302.0	352.0	450.1	653.1	1038.1	1768.2	2520.3	3199.4	2373.3	1303.2
65°	193.0	197.0	215.0	275.0	418.1	737.1	1419.2	2257.3	3104.4	2306.3	1186.1
67.5°	155.0	156.0	165.0	190.0	257.0	473.1	1052.1	1894.2	2877.4	2137.3	1049.1
70°	137.0	139.0	141.0	150.0	176.0	299.0	691.1	1525.2	2505.3	1843.2	902.1
72.5°	125.0	127.0	129.0	131.0	145.0	195.0	408.1	1156.1	2021.2	1416.2	688.1
75°	115.0	117.0	117.0	118.0	126.0	145.0	224.0	797.1	1407.2	881.1	429.1
77.5°	103.0	104.0	104.0	106.0	114.0	114.0	139.0	493.1	781.1	399.0	217.0
80°	87.0	89.0	89.0	92.0	100.0	88.0	93.0	252.0	324.0	164.0	97.0
82.5°	64.0	68.0	70.0	75.0	80.0	67.0	67.0	127.0	137.0	73.0	52.0
85°	35.0	36.0	52.0	56.0	59.0	40.0	45.0	63.0	68.0	32.0	26.0
87.5°	10.0	11.0	25.0	31.0	28.0	17.0	19.0	24.0	24.0	9.0	7.0
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0
2.5°	322.0	314.0	307.0	302.0	297.0	294.0	293.0	291.0	291.0	292.0
5°	326.0	312.0	301.0	295.0	291.0	289.0	288.0	288.0	289.0	289.0
7.5°	336.0	315.0	305.0	300.0	296.0	294.0	294.0	293.0	294.0	294.0
10°	350.0	324.0	313.0	307.0	304.0	301.0	300.0	299.0	299.0	299.0
12.5°	365.0	334.0	322.0	315.0	310.0	306.0	304.0	302.0	301.0	301.0
15°	379.0	344.0	328.0	320.0	313.0	307.0	303.0	300.0	299.0	299.0
17.5°	394.0	351.0	332.0	321.0	312.0	304.0	299.0	295.0	293.0	293.0
20°	410.1	356.0	332.0	318.0	306.0	298.0	292.0	288.0	284.0	284.0
22.5°	423.1	358.0	328.0	311.0	299.0	289.0	283.0	278.0	275.0	275.0
25°	434.1	356.0	319.0	300.0	286.0	277.0	271.0	267.0	264.0	264.0
27.5°	441.1	348.0	308.0	288.0	275.0	266.0	262.0	258.0	256.0	256.0
30°	445.1	338.0	294.0	275.0	262.0	257.0	255.0	251.0	248.0	247.0
32.5°	447.1	323.0	280.0	262.0	253.0	251.0	251.0	246.0	242.0	241.0
35°	445.1	307.0	266.0	251.0	248.0	249.0	247.0	241.0	236.0	234.0
37.5°	442.1	288.0	251.0	243.0	246.0	248.0	242.0	234.0	226.0	224.0
40°	440.1	271.0	239.0	235.0	244.0	245.0	234.0	219.0	213.0	211.0
42.5°	450.1	254.0	228.0	229.0	239.0	240.0	220.0	213.0	209.0	208.0
45°	484.1	239.0	219.0	225.0	233.0	229.0	213.0	212.0	209.0	208.0
47.5°	510.1	228.0	215.0	222.0	228.0	214.0	212.0	211.0	208.0	207.0
50°	519.1	221.0	214.0	220.0	221.0	207.0	210.0	210.0	207.0	206.0
52.5°	520.1	217.0	216.0	219.0	210.0	204.0	208.0	208.0	205.0	204.0
55°	524.1	215.0	217.0	219.0	198.0	200.0	204.0	205.0	202.0	201.0
57.5°	516.1	212.0	219.0	220.0	193.0	196.0	200.0	200.0	200.0	200.0
60°	485.1	206.0	218.0	218.0	189.0	191.0	195.0	197.0	198.0	198.0
62.5°	428.1	194.0	212.0	212.0	185.0	187.0	192.0	192.0	195.0	195.0
65°	356.0	177.0	200.0	199.0	181.0	183.0	189.0	187.0	192.0	193.0
67.5°	297.0	156.0	182.0	184.0	177.0	182.0	186.0	179.0	189.0	189.0
70°	237.0	131.0	158.0	167.0	170.0	183.0	180.0	169.0	182.0	179.0
72.5°	184.0	111.0	130.0	146.0	162.0	182.0	167.0	155.0	163.0	158.0
75°	134.0	92.0	107.0	121.0	151.0	179.0	154.0	136.0	136.0	134.0
77.5°	94.0	75.0	86.0	96.0	140.0	171.0	138.0	117.0	112.0	111.0
80°	64.0	59.0	68.0	74.0	124.0	155.0	119.0	97.0	88.0	86.0
82.5°	42.0	42.0	46.0	50.0	96.0	129.0	93.0	72.0	93.0	89.0
85°	24.0	25.0	25.0	29.0	53.0	91.0	66.0	72.0	43.0	40.0
87.5°	8.0	8.0	8.0	8.0	11.0	37.0	28.0	26.0	10.0	9.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)