

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: P572998

Luminaire Tested: **ARCH-S-PA2-20-740-U-T2U**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572998  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)  
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-T2U  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3648 lumens  
Efficiency: N/A  
Efficacy: 155.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

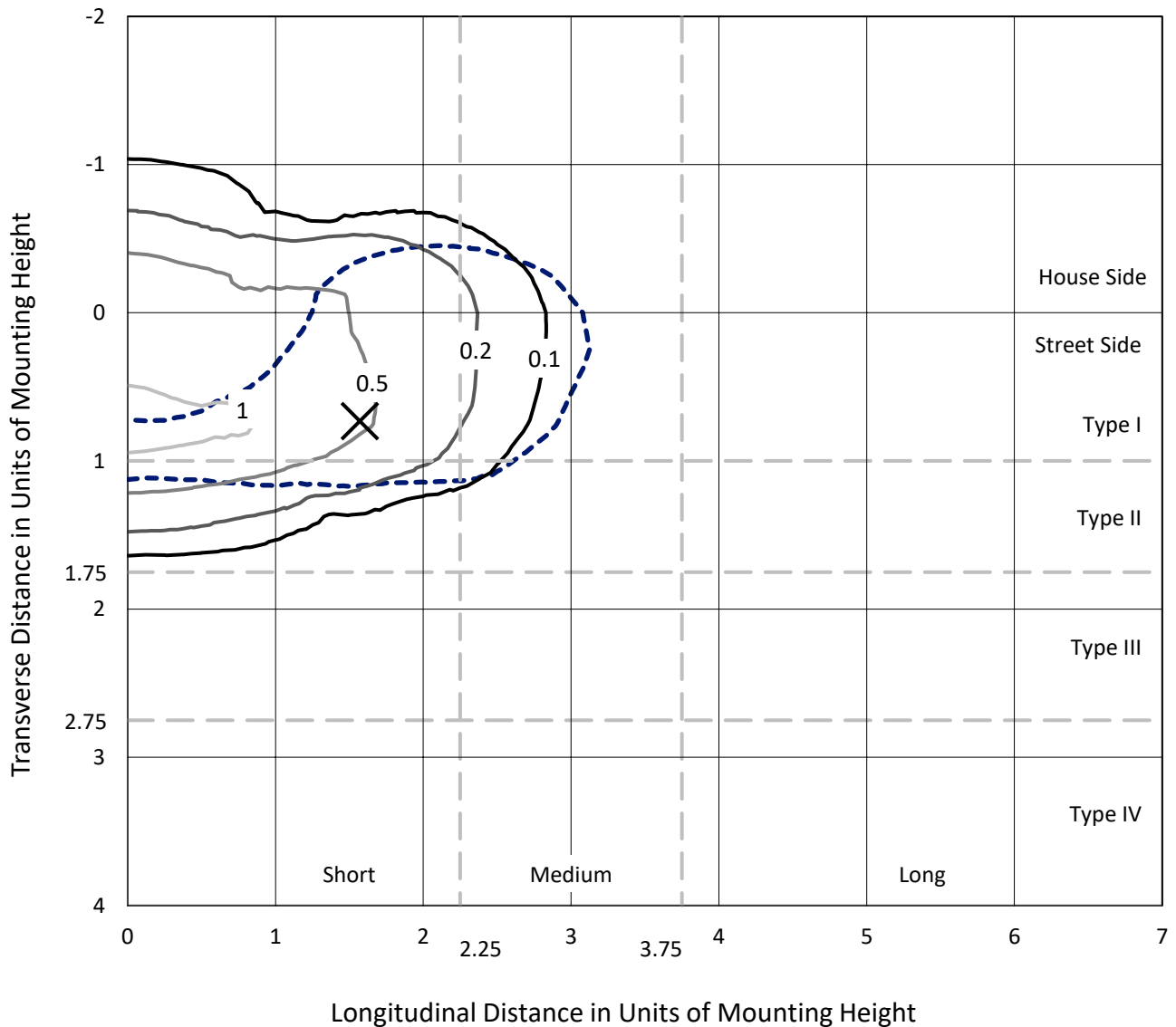
Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

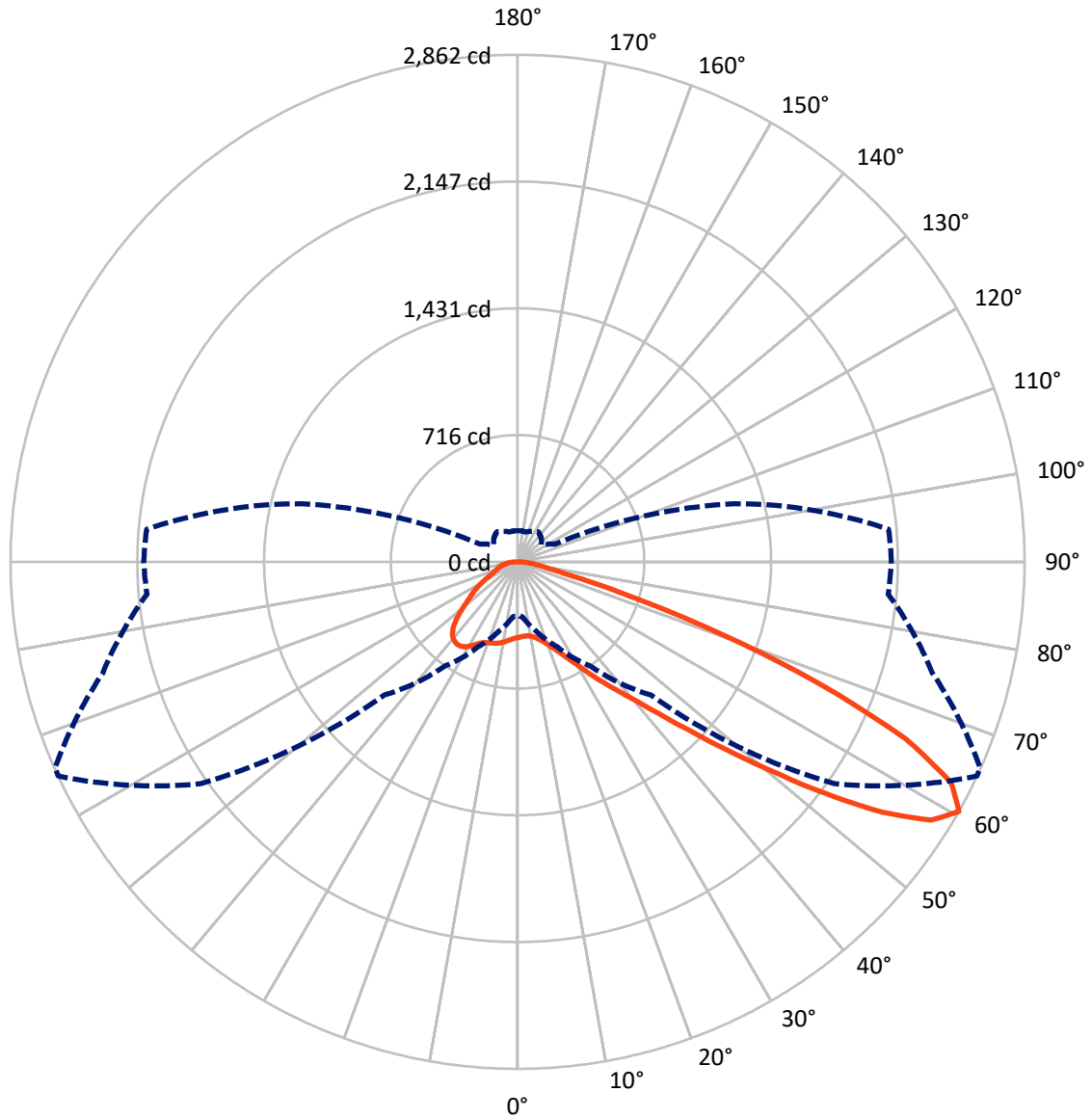
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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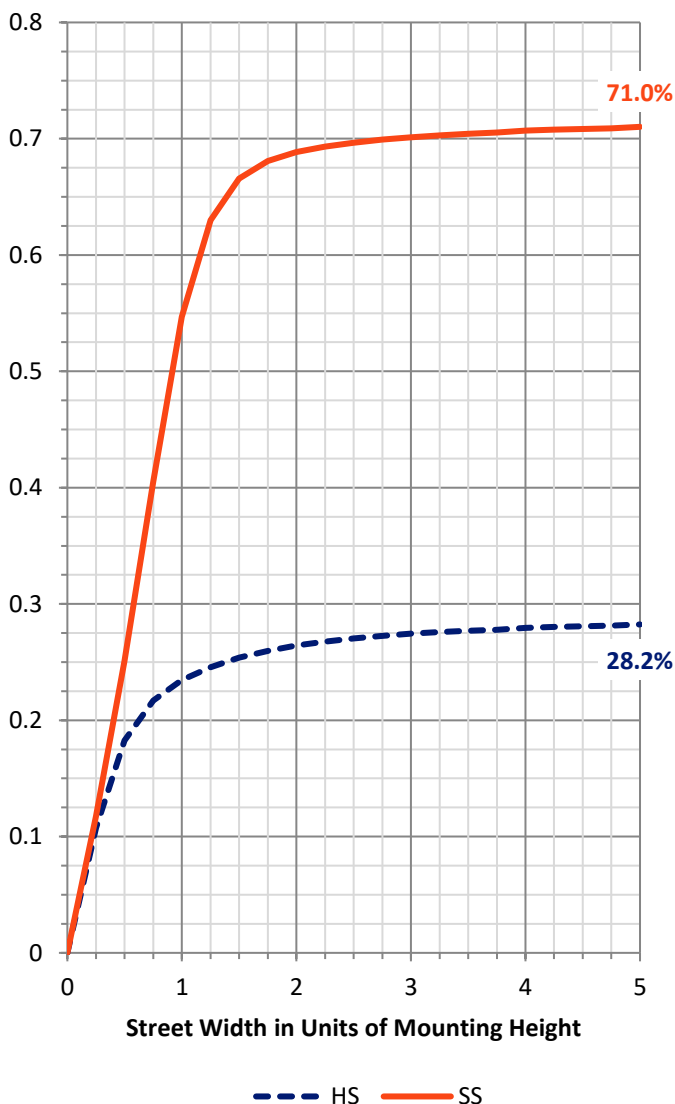
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1044.3	0.0	1044.3
	% Fixture	28.6	0.0	28.6
<b>Street Side</b>	Lumens	2603.7	0.0	2603.7
	% Fixture	71.4	0.0	71.4
<b>Total</b>	Lumens	3648.0	0.0	3648.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.4	1.1
10°-20°	133.1	3.6
20°-30°	255.1	7.0
30°-40°	443.1	12.1
40°-50°	751.5	20.6
50°-60°	935.8	25.7
60°-70°	754.1	20.7
70°-80°	285.5	7.8
80°-90°	48.4	1.3
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°	3648.0	100.0
0°-180°	3648.0	100.0

**Coefficient of Utilization**



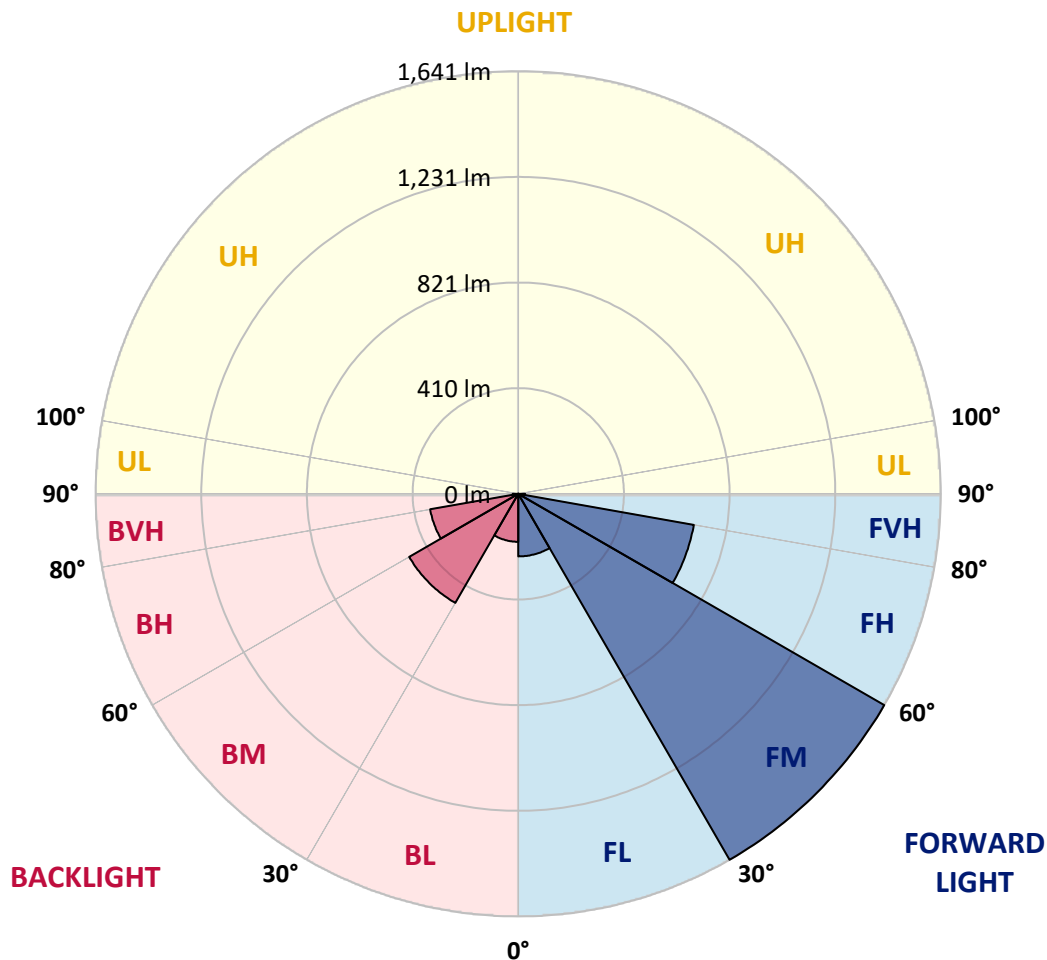
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	243.2	6.7			
FM (30°-60°)	1641.2	45.0			
FH (60°-80°)	692.4	19.0			G1/1800
FVH (80°-90°)	26.9	0.7			G1/100
BL (0°-30°)	186.4	5.1	B1/500		
BM (30°-60°)	489.1	13.4	B1/1000		
BH (60°-80°)	347.2	9.5	B1/500		G1/500
BVH (80°-90°)	21.6	0.6			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°	66°	75°	85°
0°	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0
2.5°	418.0	418.0	418.0	419.0	420.0	421.0	423.0	423.0	423.0	424.0	426.0
5°	410.0	409.0	410.0	411.0	413.0	415.0	419.0	421.0	421.0	425.0	429.0
7.5°	411.0	409.0	409.0	410.0	412.0	414.0	418.0	421.0	422.0	427.0	434.0
10°	421.0	418.0	418.0	419.0	419.0	421.0	424.0	428.0	429.0	434.0	441.0
12.5°	442.0	439.0	438.0	435.0	432.0	434.0	437.0	438.0	439.0	442.0	449.0
15°	486.0	481.0	473.0	467.0	459.0	454.0	453.0	454.0	454.0	455.0	459.0
17.5°	549.0	543.0	531.0	518.0	499.0	483.0	478.0	474.0	474.0	471.0	471.0
20°	626.0	617.0	603.0	584.0	556.0	527.0	510.0	501.0	498.0	493.0	486.0
22.5°	715.0	709.0	691.0	662.0	620.0	581.0	553.0	533.0	533.0	521.0	506.0
25°	820.0	809.0	788.0	754.0	697.0	641.0	603.0	574.0	571.0	552.0	528.0
27.5°	922.0	915.0	889.0	844.0	776.0	711.0	658.0	624.0	619.0	589.0	552.0
30°	1046.0	1038.0	999.0	936.0	863.0	789.0	727.0	683.0	678.0	637.0	585.0
32.5°	1200.1	1173.1	1125.1	1053.0	959.0	876.0	805.0	758.0	752.0	705.0	643.0
35°	1387.1	1364.1	1281.1	1205.1	1093.1	984.0	899.0	837.0	829.0	773.0	695.0
37.5°	1519.1	1508.1	1451.1	1391.1	1263.1	1116.1	1012.0	926.0	918.0	844.0	743.0
40°	1602.1	1591.1	1575.1	1558.1	1487.1	1321.1	1148.1	1031.0	1018.0	948.0	839.0
42.5°	1645.1	1636.1	1639.1	1673.1	1693.1	1667.1	1342.1	1171.1	1162.1	1077.1	956.0
45°	1620.1	1614.1	1643.1	1733.1	1831.1	2023.1	1591.1	1355.1	1331.1	1230.1	1098.1
47.5°	1500.1	1482.1	1550.1	1703.1	1913.1	2193.1	1891.1	1582.1	1556.1	1411.1	1242.1
50°	1253.1	1248.1	1341.1	1535.1	1881.1	2260.1	2212.1	1850.1	1831.1	1606.1	1402.1
52.5°	1023.0	1021.0	1093.1	1271.1	1677.1	2213.1	2445.1	2169.1	2112.1	1802.1	1576.1
55°	794.0	793.0	857.0	990.0	1338.1	1992.1	2555.1	2494.1	2452.1	2016.1	1755.1
57.5°	543.0	536.0	619.0	720.0	1005.0	1578.1	2483.1	2751.1	2725.1	2243.1	1945.1
60°	302.0	312.0	404.0	529.0	719.0	1063.0	2183.1	2862.1	2858.1	2424.1	2100.1
62.5°	214.0	218.0	257.0	376.0	473.0	609.0	1684.1	2747.1	2779.1	2524.1	2188.1
65°	178.0	180.0	199.0	278.0	346.0	352.0	1050.0	2406.1	2448.1	2493.1	2207.1
67.5°	168.0	169.0	179.0	205.0	271.0	255.0	469.0	1837.1	1926.1	2243.1	2083.1
70°	153.0	154.0	169.0	181.0	219.0	201.0	241.0	1220.1	1340.1	1773.1	1796.1
72.5°	131.0	134.0	146.0	170.0	178.0	167.0	186.0	652.0	771.0	1186.1	1387.1
75°	113.0	115.0	124.0	144.0	167.0	133.0	158.0	297.0	348.0	696.0	878.0
77.5°	91.0	92.0	105.0	118.0	140.0	108.0	123.0	178.0	187.0	340.0	397.0
80°	69.0	69.0	78.0	94.0	104.0	104.0	90.0	124.0	129.0	162.0	157.0
82.5°	53.0	52.0	59.0	66.0	75.0	87.0	68.0	82.0	84.0	98.0	84.0
85°	35.0	35.0	39.0	45.0	50.0	48.0	53.0	48.0	50.0	61.0	46.0
87.5°	15.0	15.0	21.0	20.0	22.0	23.0	26.0	23.0	23.0	28.0	21.0
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°	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0
2.5°	427.0	428.0	430.0	431.0	434.0	435.0	435.0	437.0	437.0	439.0	439.0
5°	430.0	433.0	436.0	439.0	442.0	443.0	445.0	446.0	446.0	448.0	447.0
7.5°	436.0	439.0	445.0	448.0	452.0	454.0	453.0	454.0	453.0	454.0	454.0
10°	444.0	448.0	455.0	459.0	462.0	463.0	460.0	457.0	453.0	453.0	453.0
12.5°	453.0	456.0	465.0	468.0	470.0	467.0	459.0	453.0	450.0	451.0	450.0
15°	462.0	465.0	472.0	475.0	475.0	466.0	459.0	457.0	456.0	457.0	457.0
17.5°	471.0	474.0	480.0	480.0	477.0	470.0	463.0	456.0	451.0	448.0	448.0
20°	483.0	483.0	485.0	485.0	484.0	473.0	456.0	439.0	429.0	423.0	422.0
22.5°	499.0	495.0	491.0	491.0	495.0	466.0	433.0	407.0	391.0	389.0	385.0
25°	516.0	507.0	497.0	504.0	497.0	448.0	401.0	366.0	347.0	340.0	342.0
27.5°	534.0	520.0	505.0	525.0	487.0	413.0	356.0	317.0	299.0	294.0	294.0
30°	559.0	538.0	516.0	547.0	468.0	373.0	303.0	275.0	265.0	261.0	260.0
32.5°	607.0	575.0	543.0	567.0	447.0	321.0	267.0	250.0	238.0	234.0	237.0
35°	650.0	605.0	584.0	576.0	414.0	279.0	245.0	230.0	220.0	215.0	215.0
37.5°	689.0	646.0	630.0	576.0	371.0	253.0	231.0	219.0	206.0	202.0	202.0
40°	774.0	717.0	689.0	568.0	318.0	240.0	224.0	210.0	199.0	195.0	194.0
42.5°	891.0	814.0	750.0	550.0	273.0	234.0	220.0	204.0	195.0	192.0	191.0
45°	1015.0	947.0	808.0	518.0	244.0	228.0	219.0	202.0	191.0	188.0	187.0
47.5°	1165.1	1095.1	875.0	469.0	224.0	224.0	218.0	199.0	189.0	186.0	186.0
50°	1331.1	1273.1	960.0	413.0	209.0	221.0	216.0	199.0	188.0	185.0	184.0
52.5°	1501.1	1474.1	1049.0	358.0	194.0	217.0	215.0	199.0	186.0	183.0	183.0
55°	1717.1	1695.1	1152.1	317.0	182.0	209.0	215.0	197.0	183.0	181.0	181.0
57.5°	1929.1	1921.1	1232.1	281.0	173.0	199.0	212.0	194.0	180.0	179.0	179.0
60°	2110.1	2102.1	1266.1	236.0	164.0	189.0	206.0	189.0	175.0	176.0	176.0
62.5°	2222.1	2176.1	1241.1	195.0	155.0	180.0	199.0	183.0	170.0	173.0	172.0
65°	2242.1	2135.1	1144.1	163.0	145.0	170.0	191.0	176.0	163.0	170.0	169.0
67.5°	2095.1	1917.1	962.0	142.0	135.0	159.0	182.0	166.0	155.0	165.0	162.0
70°	1777.1	1557.1	712.0	126.0	125.0	146.0	170.0	154.0	144.0	149.0	145.0
72.5°	1323.1	1124.1	461.0	114.0	114.0	131.0	153.0	139.0	129.0	130.0	126.0
75°	825.0	691.0	262.0	103.0	103.0	116.0	136.0	122.0	115.0	111.0	116.0
77.5°	375.0	304.0	138.0	92.0	93.0	99.0	117.0	104.0	96.0	90.0	93.0
80°	139.0	124.0	90.0	79.0	81.0	82.0	94.0	83.0	76.0	72.0	70.0
82.5°	72.0	67.0	61.0	63.0	66.0	63.0	73.0	62.0	54.0	51.0	43.0
85°	36.0	35.0	37.0	42.0	46.0	39.0	44.0	40.0	33.0	24.0	24.0
87.5°	14.0	15.0	14.0	19.0	21.0	18.0	20.0	14.0	10.0	5.0	4.0
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)