

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: P573362

Luminaire Tested: **ARCH-S-PA2-60-830-U-T4W**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573362  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-60-830-U-T4W  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 3000K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7492 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

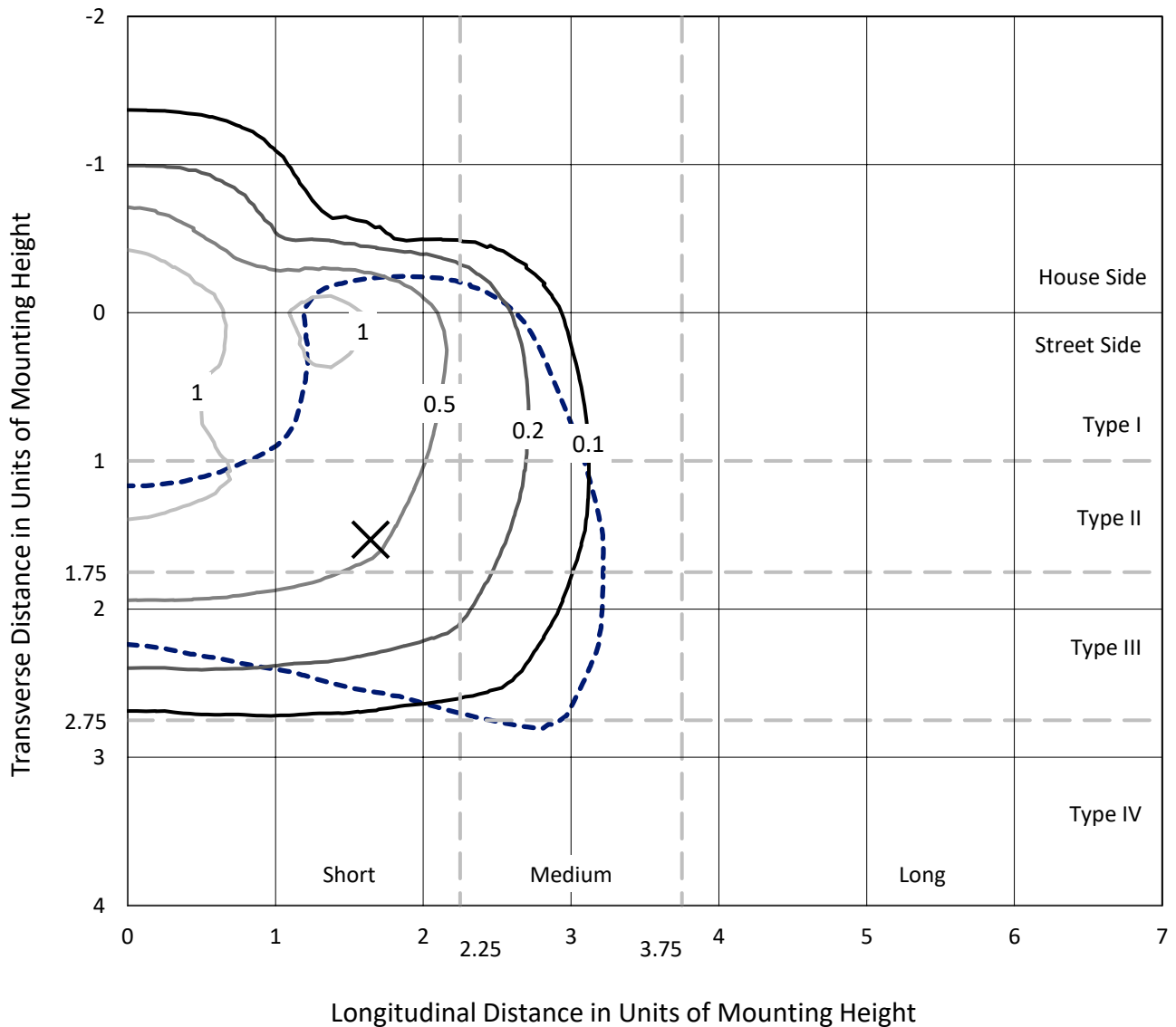
Input Watts (W): 63.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P573362  
 CATALOG NUMBER: ARCH-S-PA2-60-830-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

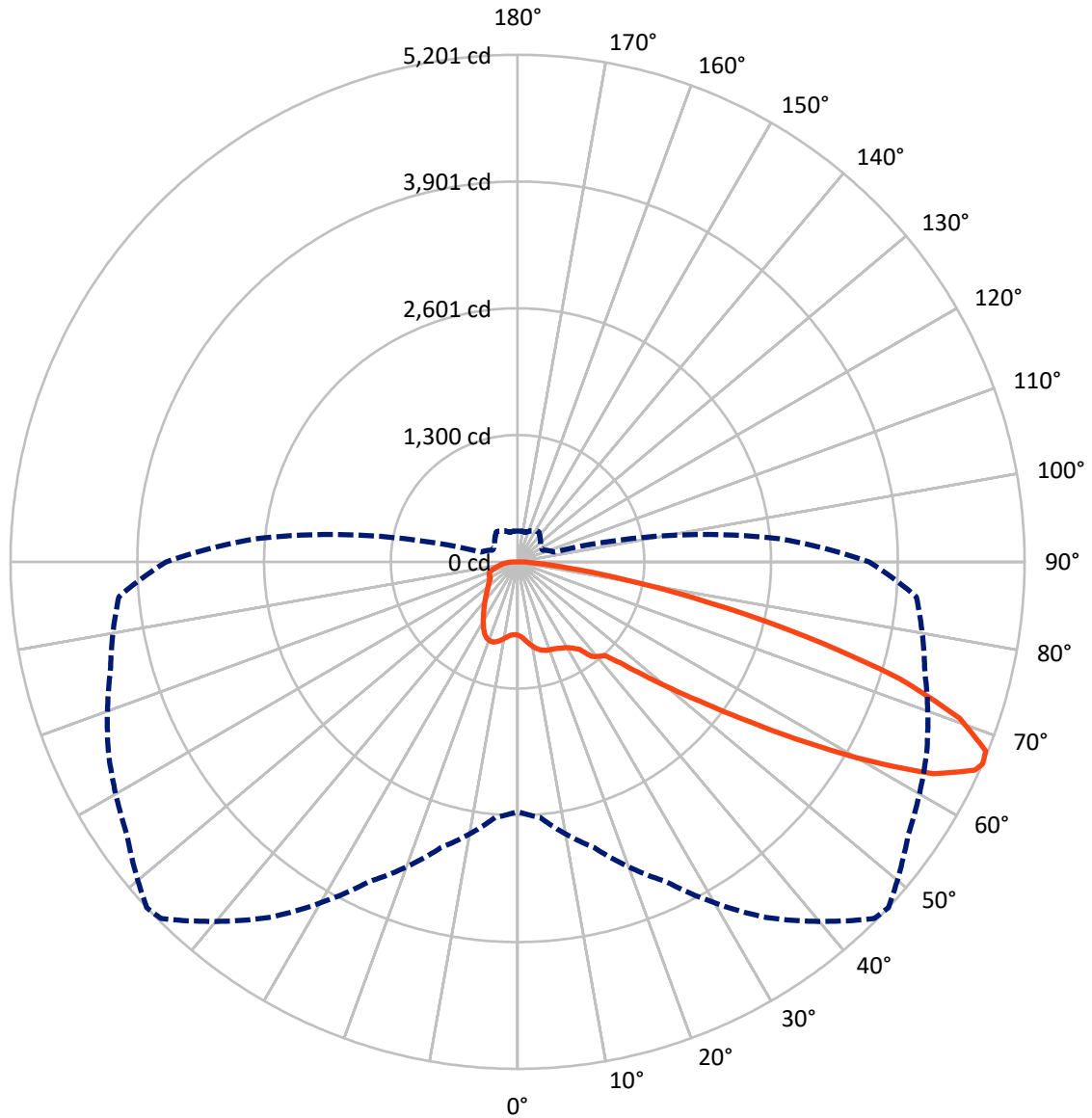
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type III - Short - N/A

REPORT NUMBER: P573362  
CATALOG NUMBER: ARCH-S-PA2-60-830-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P573362  
 CATALOG NUMBER: ARCH-S-PA2-60-830-U-T4W

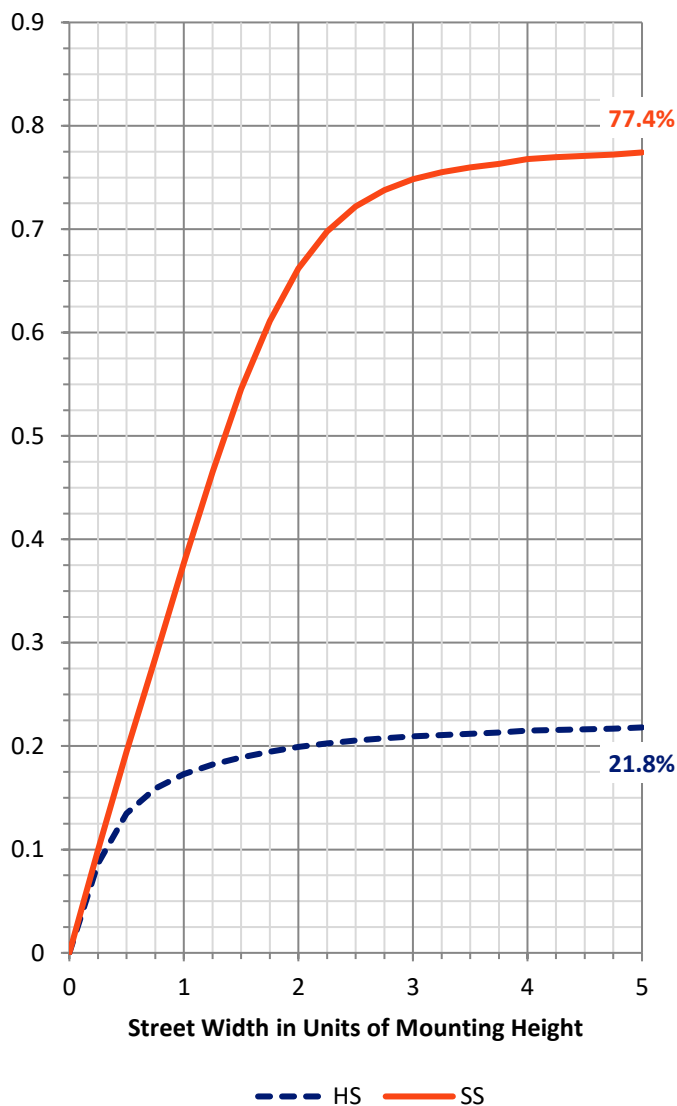
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1665.7	0.0	1665.7
	% Fixture	22.2	0.0	22.2
<b>Street Side</b>	Lumens	5826.3	0.0	5826.3
	% Fixture	77.8	0.0	77.8
<b>Total</b>	Lumens	7492.0	0.0	7492.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.6	1.0
10°-20°	251.5	3.4
20°-30°	419.4	5.6
30°-40°	609.0	8.1
40°-50°	931.4	12.4
50°-60°	1760.6	23.5
60°-70°	2275.0	30.4
70°-80°	1022.6	13.6
80°-90°	145.9	1.9
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°	7492.0	100.0
0°-180°	7492.0	100.0

**Coefficient of Utilization**

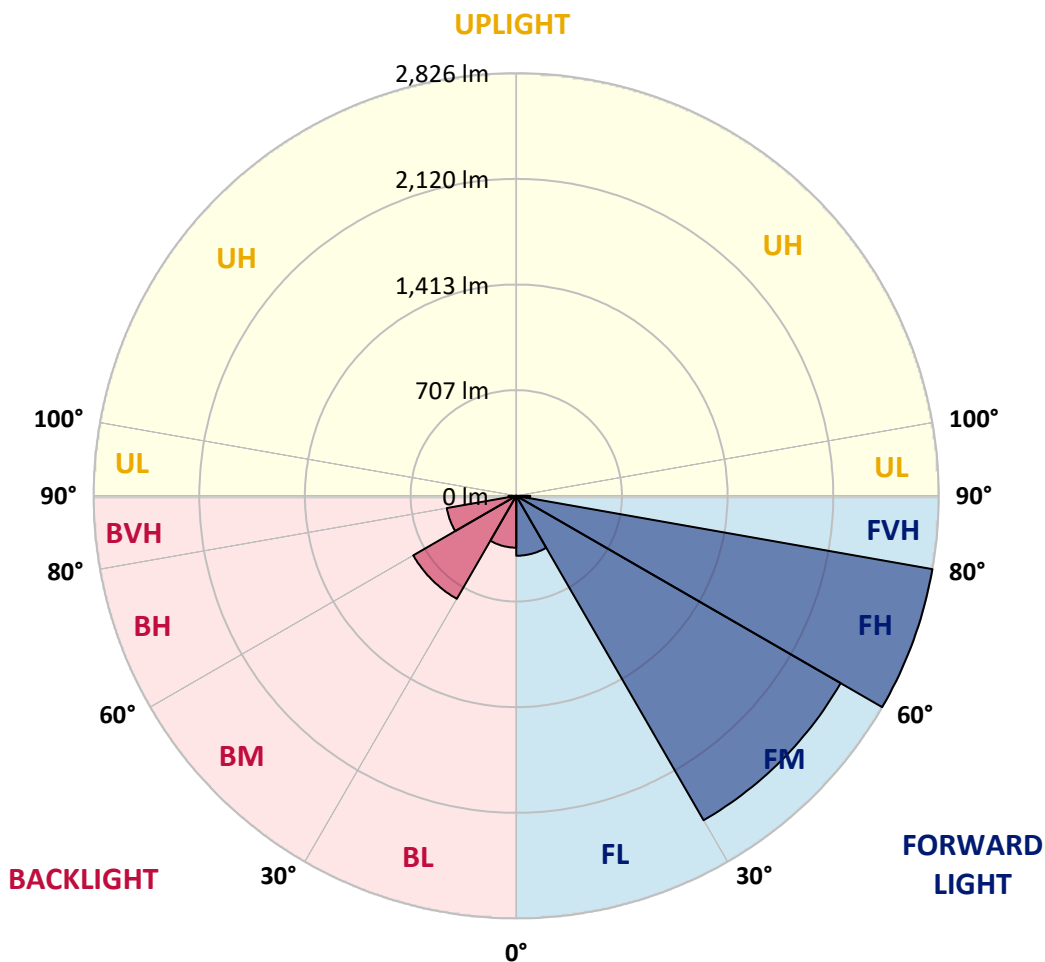


REPORT NUMBER: P573362  
 CATALOG NUMBER: ARCH-S-PA2-60-830-U-T4W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	400.8	5.4			
FM (30°-60°)	2505.5	33.4			
FH (60°-80°)	2826.3	37.7			G2/5000
FVH (80°-90°)	93.7	1.3			G1/100
BL (0°-30°)	346.6	4.6	B1/500		
BM (30°-60°)	795.6	10.6	B1/1000		
BH (60°-80°)	471.3	6.3	B1/500		G1/500
BVH (80°-90°)	52.1	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-G2**  
 Type III Short





REPORT NUMBER: P573362

CATALOG NUMBER: ARCH-S-PA2-60-830-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	753.2	753.2	753.2	753.2	753.2	753.2	753.2	753.2	753.2	753.2	753.2
2.5°	795.9	789.8	785.7	783.7	779.6	771.5	771.5	769.5	761.3	757.2	755.2
5°	859.0	855.0	844.8	836.6	824.4	808.1	806.1	793.9	777.6	765.4	757.2
7.5°	920.1	916.0	905.8	893.6	873.3	852.9	846.8	830.5	804.1	785.7	771.5
10°	973.0	966.9	954.7	938.4	916.0	893.6	887.5	869.2	842.7	816.3	791.9
12.5°	1007.6	1003.6	989.3	968.9	944.5	922.1	918.1	901.8	875.3	846.8	816.3
15°	1023.9	1021.9	1005.6	985.2	960.8	942.5	940.4	926.2	903.8	875.3	840.7
17.5°	1019.8	1017.8	1003.6	983.2	964.9	954.7	954.7	944.5	926.2	901.8	865.1
20°	999.5	999.5	987.3	973.0	962.8	960.8	960.8	958.8	946.6	926.2	889.6
22.5°	979.1	979.1	971.0	960.8	958.8	966.9	968.9	973.0	968.9	952.7	920.1
25°	983.2	981.2	971.0	958.8	960.8	979.1	983.2	993.4	991.3	979.1	950.6
27.5°	1028.0	1025.9	999.5	975.1	973.0	995.4	999.5	1013.7	1013.7	1003.6	985.2
30°	1139.9	1144.0	1095.2	1034.1	1003.6	1017.8	1021.9	1038.2	1046.3	1050.4	1036.1
32.5°	1310.9	1304.8	1231.5	1131.8	1064.6	1050.4	1056.5	1070.7	1099.2	1107.4	1072.8
35°	1484.0	1488.0	1416.8	1290.6	1162.3	1109.4	1105.3	1125.7	1168.4	1131.8	1070.7
37.5°	1644.8	1638.7	1555.2	1418.8	1290.6	1229.5	1231.5	1223.4	1186.8	1113.5	1085.0
40°	1819.8	1803.5	1734.3	1559.3	1396.4	1294.6	1276.3	1207.1	1176.6	1146.0	1142.0
42.5°	1992.9	1994.9	1937.9	1764.9	1522.6	1341.5	1313.0	1241.7	1262.1	1256.0	1251.9
45°	2210.7	2210.7	2153.7	1992.9	1722.1	1516.5	1477.8	1392.4	1424.9	1449.4	1498.2
47.5°	2410.2	2397.9	2381.7	2245.3	1982.7	1744.5	1728.2	1630.5	1716.0	1791.3	1891.1
50°	2621.9	2605.6	2595.4	2511.9	2324.7	2090.6	2041.7	1939.9	2127.2	2267.7	2452.9
52.5°	2951.6	2923.1	2870.2	2823.4	2750.1	2479.4	2418.3	2343.0	2585.2	2762.3	3140.9
55°	3248.8	3224.4	3173.5	3208.1	3197.9	2951.6	2898.7	2827.5	3090.0	3305.8	3739.4
57.5°	3358.7	3360.8	3430.0	3615.2	3712.9	3570.5	3495.1	3423.9	3645.8	3745.5	4136.3
60°	3409.6	3403.5	3582.7	3883.9	4201.5	4244.2	4148.6	4002.0	4085.5	4091.6	4472.2
62.5°	3299.7	3316.0	3562.3	3995.9	4494.6	4802.0	4787.7	4531.3	4453.9	4368.4	4561.8
65°	2882.4	2904.8	3267.1	3796.4	4541.4	5139.9	5154.2	4854.9	4639.1	4401.0	4307.3
66°	2564.9	2632.0	3035.1	3623.4	4455.9	5174.5	5201.0	4889.5	4631.0	4323.6	4105.8
67.5°	2151.6	2147.6	2597.4	3242.7	4217.8	5144.0	5178.6	4840.7	4521.1	4095.6	3702.8
70°	1317.0	1357.7	1744.5	2420.3	3491.1	4763.3	4810.1	4496.7	4046.8	3468.7	2737.9
72.5°	675.8	743.0	997.4	1573.5	2534.3	3936.9	4095.6	3776.0	3307.9	2509.9	1671.2
75°	358.3	354.2	470.2	852.9	1618.3	2953.7	3037.1	2831.5	2286.0	1496.2	850.9
77.5°	191.3	201.5	246.3	437.7	889.6	1887.0	1992.9	1825.9	1302.8	765.4	407.1
80°	130.3	136.4	166.9	246.3	482.4	1023.9	1121.6	973.0	681.9	362.3	191.3
82.5°	83.5	87.5	114.0	152.7	289.1	496.7	523.2	498.7	333.8	205.6	116.0
85°	50.9	52.9	69.2	97.7	181.2	201.5	209.7	211.7	187.3	134.3	63.1
87.5°	24.4	26.5	38.7	48.9	85.5	73.3	67.2	69.2	103.8	79.4	28.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P573362  
 CATALOG NUMBER: ARCH-S-PA2-60-830-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	753.2	753.2	753.2	753.2	753.2	753.2	753.2	753.2	753.2	753.2	753.2
2.5°	753.2	751.1	747.1	745.0	747.1	747.1	747.1	749.1	753.2	753.2	755.2
5°	753.2	749.1	745.0	745.0	749.1	753.2	757.2	765.4	769.5	771.5	771.5
7.5°	763.4	759.3	755.2	755.2	761.3	769.5	777.6	787.8	798.0	806.1	806.1
10°	783.7	777.6	773.5	775.6	785.7	795.9	806.1	818.3	828.5	838.7	838.7
12.5°	806.1	800.0	793.9	798.0	812.2	824.4	834.6	840.7	850.9	859.0	859.0
15°	828.5	818.3	816.3	824.4	838.7	846.8	850.9	850.9	855.0	863.1	863.1
17.5°	852.9	842.7	840.7	848.8	861.1	861.1	852.9	846.8	844.8	850.9	852.9
20°	877.3	867.2	867.2	873.3	871.2	857.0	842.7	832.6	824.4	830.5	832.6
22.5°	907.9	897.7	893.6	885.5	867.2	838.7	816.3	804.1	798.0	802.0	806.1
25°	938.4	930.3	920.1	891.6	848.8	804.1	775.6	765.4	767.4	775.6	779.6
27.5°	977.1	973.0	948.6	887.5	816.3	755.2	726.7	724.7	732.8	745.0	751.1
30°	1023.9	1017.8	975.1	875.3	771.5	698.2	677.9	681.9	694.1	704.3	710.4
32.5°	1056.5	1052.4	987.3	846.8	716.5	647.3	631.0	631.0	637.1	651.4	657.5
35°	1066.7	1082.9	995.4	804.1	651.4	602.5	586.3	576.1	576.1	588.3	592.4
37.5°	1101.3	1137.9	999.5	747.1	598.5	561.8	541.5	523.2	517.0	515.0	515.0
40°	1180.7	1223.4	997.4	673.8	547.6	521.1	496.7	476.3	460.0	437.7	439.7
42.5°	1319.1	1351.6	991.3	596.4	502.8	484.5	460.0	435.6	409.2	384.7	382.7
45°	1585.7	1536.9	975.1	529.3	462.1	451.9	429.5	401.0	368.4	346.1	346.1
47.5°	2007.1	1872.8	964.9	466.2	425.4	423.4	403.0	372.5	339.9	323.7	321.6
50°	2585.2	2336.9	981.2	421.4	392.9	399.0	382.7	354.2	327.7	313.5	311.4
52.5°	3248.8	2835.6	999.5	392.9	368.4	380.7	372.5	346.1	319.6	307.4	305.3
55°	3761.8	3240.7	973.0	366.4	344.0	362.3	362.3	337.9	315.5	303.3	303.3
57.5°	4122.1	3403.5	881.4	342.0	323.7	346.1	352.2	333.8	313.5	309.4	309.4
60°	4276.8	3395.4	720.6	319.6	309.4	329.8	346.1	329.8	317.6	327.7	329.8
62.5°	4193.3	3218.3	559.8	303.3	299.2	325.7	352.2	346.1	331.8	339.9	344.0
65°	3816.8	2906.8	421.4	289.1	287.0	327.7	368.4	356.2	321.6	323.7	325.7
66°	3605.1	2697.2	386.8	285.0	282.9	329.8	376.6	352.2	313.5	317.6	315.5
67.5°	3153.2	2367.4	339.9	276.8	274.8	329.8	386.8	344.0	303.3	309.4	303.3
70°	2312.4	1675.3	291.1	266.7	262.6	323.7	384.7	327.7	280.9	276.8	266.7
72.5°	1341.5	1013.7	258.5	254.5	244.3	285.0	360.3	301.3	256.5	244.3	234.1
75°	659.5	515.0	230.0	240.2	213.7	250.4	325.7	278.9	236.1	219.8	213.7
77.5°	303.3	260.6	207.6	219.8	189.3	215.8	297.2	254.5	209.7	185.2	179.1
80°	164.9	162.8	175.1	183.2	158.8	189.3	262.6	221.9	177.1	150.6	142.5
82.5°	101.8	103.8	128.2	140.5	124.2	164.9	232.1	185.2	134.3	105.9	107.9
85°	52.9	59.0	85.5	93.6	81.4	122.1	175.1	124.2	75.3	55.0	55.0
87.5°	18.3	24.4	42.7	50.9	44.8	73.3	109.9	59.0	16.3	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)