

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: P348938

Luminaire Tested: **ARCH-N-PA1-60-740-U-T2U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348938  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1908-474-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-N-PA1-60-740-U-T2U  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7629 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

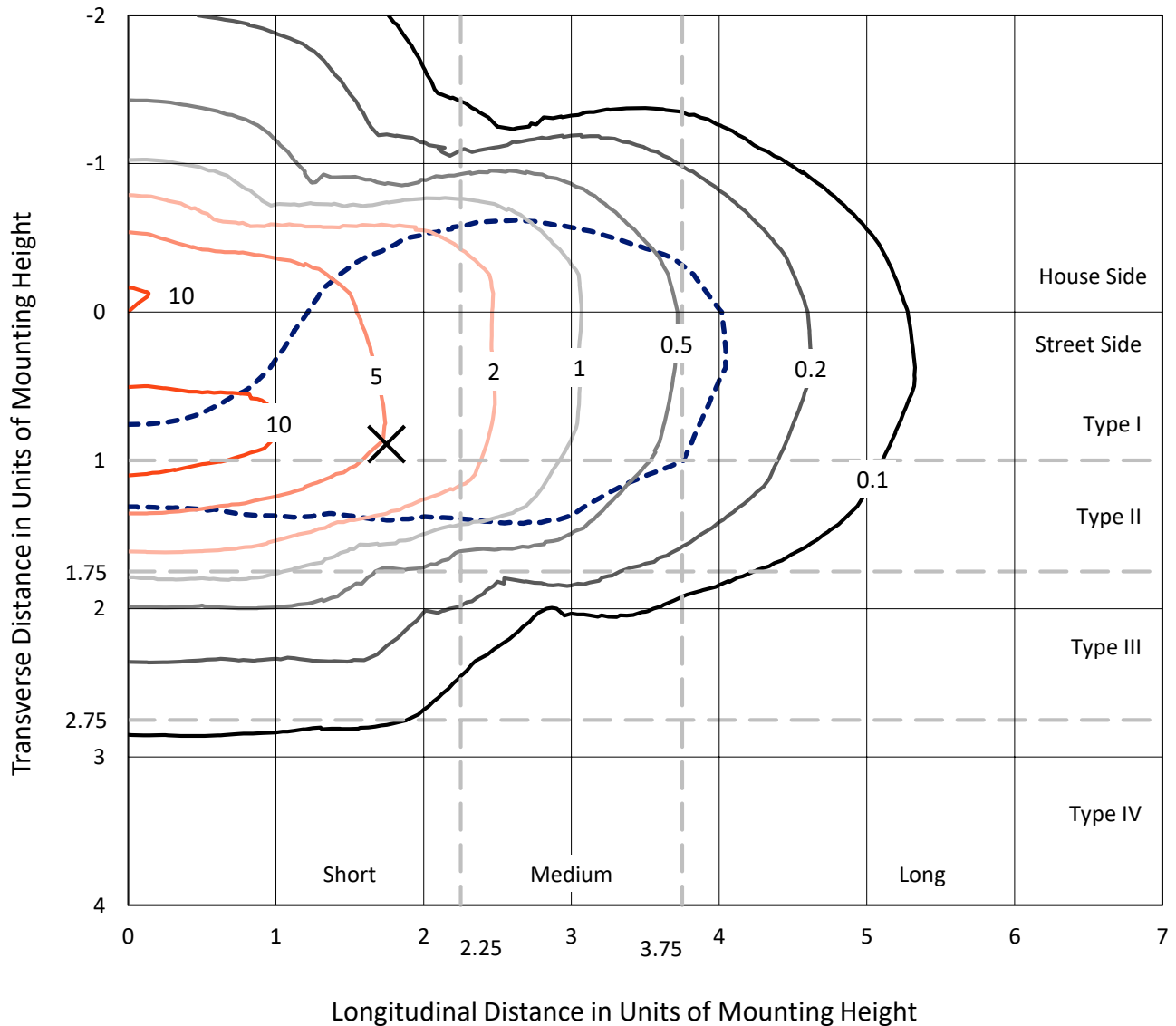
Input Watts (W): 62  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

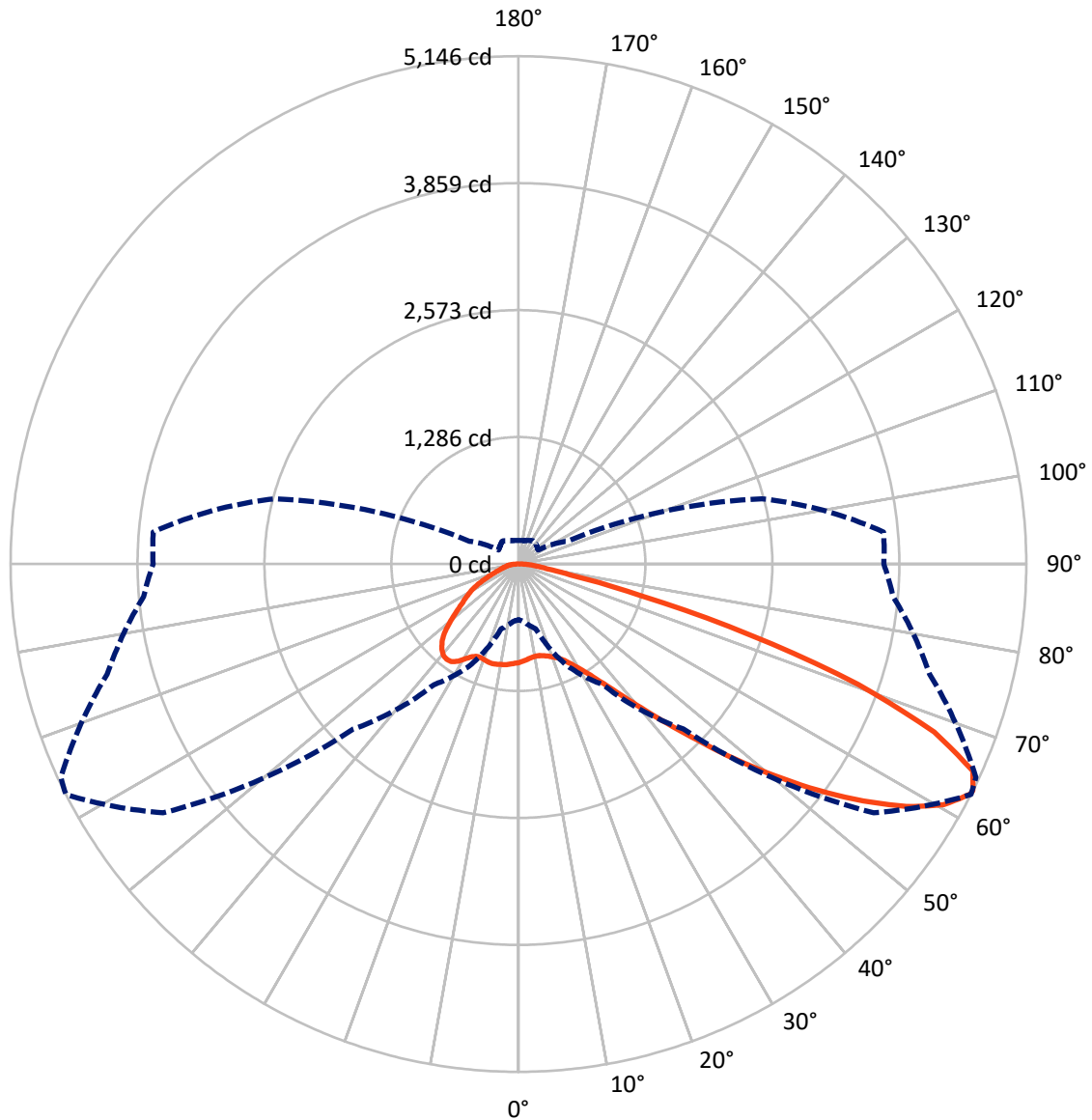
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.2 fc  
 Type II - Short - Semi-Cutoff

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CATALOG NUMBER: ARCH-N-PA1-60-740-U-T2U

### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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CATALOG NUMBER: ARCH-N-PA1-60-740-U-T2U

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2178.0	0.0	2178.0
	% Fixture	28.5	0.0	28.5
<b>Street Side</b>	Lumens	5451.0	0.0	5451.0
	% Fixture	71.5	0.0	71.5
<b>Total</b>	Lumens	7629.0	0.0	7629.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.8	1.2
10°-20°	279.6	3.7
20°-30°	491.1	6.4
30°-40°	827.8	10.9
40°-50°	1450.1	19.0
50°-60°	1874.2	24.6
60°-70°	1622.4	21.3
70°-80°	842.2	11.0
80°-90°	146.8	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°	7629.0	100.0
0°-180°	7629.0	100.0



REPORT NUMBER: P348938

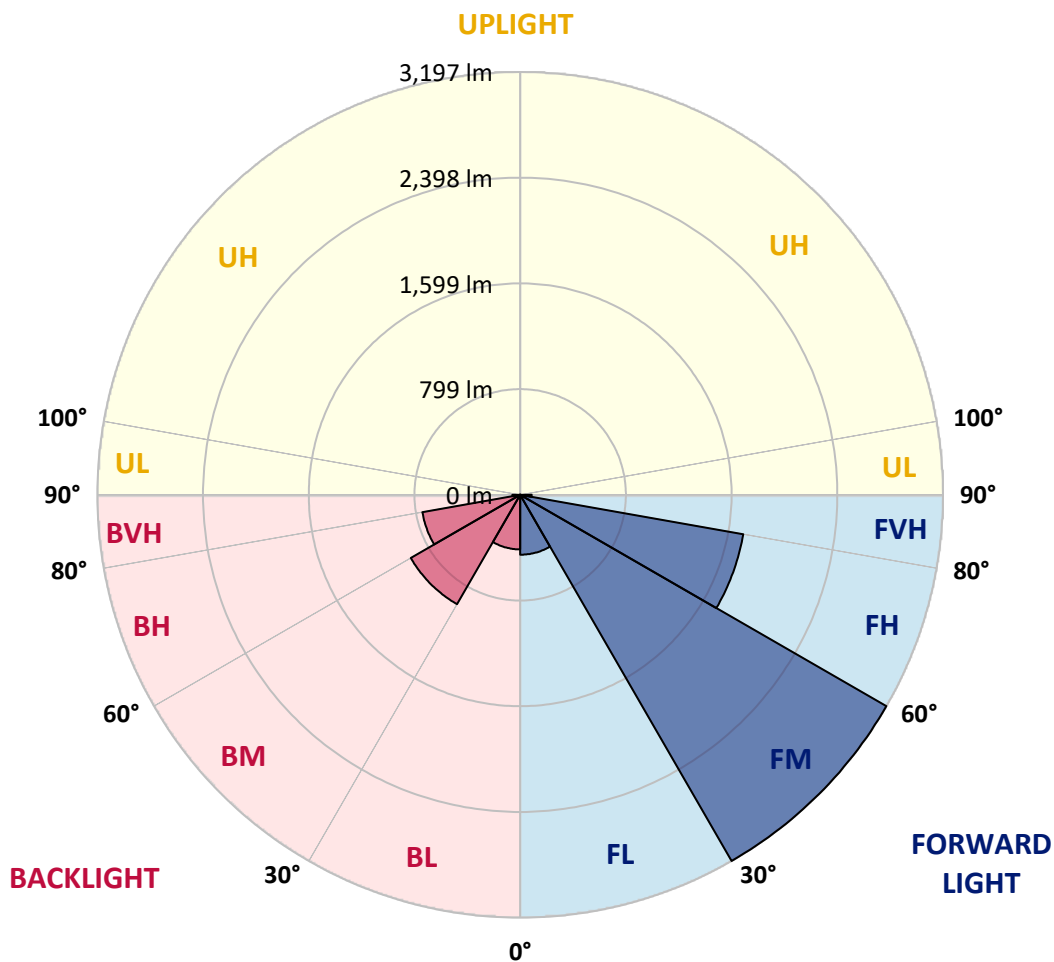
CATALOG NUMBER: ARCH-N-PA1-60-740-U-T2U

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	452.9	5.9			
FM	(30°-60°)	3197.4	41.9			
FH	(60°-80°)	1713.3	22.5			G1/1800
FVH	(80°-90°)	87.4	1.1			G1/100
BL	(0°-30°)	412.6	5.4	B1/500		
BM	(30°-60°)	954.7	12.5	B1/1000		
BH	(60°-80°)	751.3	9.8	B2/1000		G2/1000
BVH	(80°-90°)	59.4	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9
2.5°	975.3	972.4	977.4	979.6	978.9	983.2	983.2	983.9	983.9	987.4	991.0
5°	946.7	945.3	950.3	953.9	956.7	963.2	967.4	969.6	971.7	976.7	985.3
7.5°	919.6	917.5	924.6	927.5	931.7	941.0	951.0	956.7	959.6	970.3	982.4
10°	897.5	896.8	902.5	905.3	910.3	923.9	938.2	950.3	952.5	966.7	978.2
12.5°	886.8	885.3	891.8	895.3	903.9	920.3	936.7	951.7	955.3	971.7	981.7
15°	895.3	896.8	902.5	903.2	913.2	930.3	948.9	963.9	967.4	983.9	991.0
17.5°	936.0	935.3	938.9	937.5	941.0	949.6	969.6	981.7	986.0	998.1	1003.9
20°	1009.6	1007.4	1010.3	1001.0	985.3	981.0	993.1	1006.7	1008.1	1015.3	1011.7
22.5°	1121.7	1123.8	1117.4	1093.8	1056.0	1038.1	1030.3	1034.6	1039.6	1038.8	1028.1
25°	1268.0	1275.2	1263.0	1221.6	1158.1	1116.7	1088.1	1081.7	1085.3	1075.3	1058.8
27.5°	1460.1	1465.8	1439.4	1375.1	1289.4	1228.0	1170.9	1148.8	1148.8	1127.4	1097.4
30°	1671.4	1675.0	1632.9	1551.5	1452.2	1360.8	1276.6	1233.8	1230.2	1188.1	1140.9
32.5°	1928.5	1918.5	1868.5	1767.8	1642.9	1517.2	1408.7	1343.7	1336.6	1273.0	1213.1
35°	2260.5	2260.5	2156.9	2042.0	1889.9	1730.0	1587.2	1486.5	1479.4	1407.3	1329.4
37.5°	2621.0	2619.6	2526.1	2367.6	2185.5	1989.9	1799.2	1673.6	1657.1	1580.0	1492.9
40°	2980.2	2968.0	2892.3	2741.7	2547.5	2324.0	2061.3	1914.9	1907.0	1797.1	1687.9
42.5°	3242.9	3231.5	3195.8	3095.1	2967.3	2805.9	2401.8	2204.1	2192.6	2054.1	1920.6
45°	3387.8	3371.4	3366.4	3367.8	3382.1	3381.4	2822.4	2546.1	2506.1	2345.4	2167.6
47.5°	3355.0	3316.4	3367.8	3499.9	3722.0	3867.6	3312.2	2952.3	2878.1	2648.2	2431.1
50°	3090.1	3071.5	3181.5	3450.7	3906.9	4248.9	3851.2	3374.3	3269.3	2934.5	2680.3
52.5°	2625.3	2661.0	2796.7	3179.4	3873.3	4479.5	4341.0	3812.7	3667.0	3207.2	2896.6
55°	2089.8	2134.8	2326.1	2731.7	3562.8	4482.4	4694.4	4237.5	4107.5	3489.2	3118.0
57.5°	1520.8	1584.3	1823.5	2195.5	3018.0	4176.1	4868.6	4635.2	4486.7	3767.0	3334.3
60°	955.3	1000.3	1260.9	1692.1	2306.9	3499.9	4825.1	4953.6	4830.8	4029.0	3581.3
62.5°	615.5	636.9	749.7	1208.1	1608.6	2566.8	4503.1	5136.4	5083.5	4268.2	3767.7
63°	564.0	582.6	679.0	1116.7	1491.5	2364.7	4394.6	5145.7	5114.2	4313.2	3811.2
65°	403.4	423.4	473.4	767.5	1101.0	1586.5	3765.5	5059.3	5094.3	4388.1	3870.5
67.5°	318.4	324.9	347.7	466.2	781.1	901.0	2533.9	4543.1	4696.6	4308.2	3782.7
70°	284.9	289.9	315.6	357.7	591.2	584.0	1321.6	3652.7	3970.4	4035.4	3561.3
72.5°	248.5	252.0	283.5	337.0	451.2	446.2	574.8	2456.1	2842.4	3535.6	3255.0
75°	205.6	209.2	235.6	299.2	382.0	352.7	359.8	1283.7	1629.3	2771.7	2854.5
77.5°	169.2	171.4	193.5	240.6	336.3	272.0	278.5	539.8	791.8	1889.2	2254.0
80°	122.8	123.5	144.2	182.8	257.0	245.6	207.1	294.2	359.1	1035.3	1418.0
82.5°	85.7	86.4	107.8	127.8	177.1	244.9	150.6	197.1	215.6	476.9	631.2
85°	60.0	58.5	73.5	84.2	112.1	148.5	115.0	126.4	133.5	206.3	169.9
87.5°	26.4	25.7	41.4	45.0	56.4	68.5	91.4	66.4	70.7	100.0	53.5
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: P348938

CATALOG NUMBER: ARCH-N-PA1-60-740-U-T2U

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9
2.5°	991.7	994.6	998.9	1005.3	1010.3	1012.4	1016.7	1017.4	1023.8	1018.1	1018.9
5°	990.3	993.9	1003.1	1014.6	1022.4	1028.1	1038.8	1042.4	1048.8	1046.0	1045.3
7.5°	988.1	994.6	1008.1	1024.6	1036.7	1046.0	1056.0	1062.4	1068.8	1067.4	1066.0
10°	985.3	993.1	1012.4	1028.8	1046.0	1056.0	1063.1	1063.8	1066.0	1064.5	1061.0
12.5°	987.4	996.0	1018.1	1034.6	1052.4	1059.5	1057.4	1046.7	1037.4	1029.6	1028.1
15°	994.6	1004.6	1025.3	1040.3	1054.5	1050.3	1037.4	1013.9	996.7	986.7	987.4
17.5°	1001.7	1010.3	1026.0	1038.1	1045.3	1032.4	1012.4	992.4	984.6	976.7	975.3
20°	1008.1	1009.6	1019.6	1030.3	1029.6	1019.6	1001.0	976.7	961.0	948.2	948.9
22.5°	1018.1	1012.4	1013.1	1019.6	1027.4	1018.1	974.6	932.5	908.9	893.9	893.2
25°	1041.0	1028.8	1017.4	1021.0	1051.0	991.7	918.2	863.2	842.5	828.9	830.4
27.5°	1072.4	1056.0	1033.1	1052.4	1068.8	939.6	837.5	781.1	766.8	752.5	756.1
30°	1106.7	1083.1	1055.3	1120.2	1048.8	856.8	737.5	686.1	673.3	659.7	662.6
32.5°	1168.1	1133.1	1096.7	1201.6	1002.4	756.1	632.6	586.2	577.6	569.0	569.8
35°	1270.2	1228.8	1189.5	1263.7	942.5	651.2	538.3	505.5	498.4	488.4	488.4
37.5°	1420.8	1355.8	1335.1	1296.6	860.3	553.3	469.1	447.0	432.0	418.4	418.4
40°	1595.7	1518.6	1502.2	1306.6	753.2	471.9	420.5	401.3	381.3	361.3	362.7
42.5°	1808.5	1704.3	1666.4	1293.0	623.3	419.8	386.3	364.1	344.9	327.7	324.9
45°	2048.4	1916.3	1820.7	1253.8	505.5	387.7	364.1	337.7	313.4	298.4	295.6
47.5°	2293.3	2146.2	1957.0	1175.2	422.7	364.8	349.1	312.0	294.9	284.9	283.5
50°	2527.5	2374.0	2069.8	1051.7	374.8	348.4	327.0	299.9	285.6	277.0	276.3
52.5°	2735.3	2590.3	2164.8	923.9	342.7	334.9	317.0	294.2	279.2	271.3	269.9
55°	2933.0	2809.5	2259.0	809.7	314.9	312.0	312.0	288.4	272.0	264.9	263.5
57.5°	3150.1	3058.7	2354.0	726.1	289.9	295.6	305.6	282.0	264.2	257.7	257.0
60°	3400.7	3347.1	2454.0	652.6	267.7	277.7	296.3	273.5	254.9	249.9	248.5
62.5°	3657.0	3658.4	2540.3	564.0	249.2	264.2	285.6	265.6	246.3	242.8	242.0
63°	3702.0	3714.8	2552.5	544.8	244.9	261.3	282.7	262.7	244.2	240.6	239.9
65°	3812.7	3869.1	2562.5	463.4	229.2	250.6	272.0	253.5	234.9	234.2	232.8
67.5°	3786.2	3878.3	2500.4	363.4	211.3	235.6	257.0	239.9	223.5	223.5	220.6
70°	3589.2	3649.2	2309.7	280.6	197.8	219.9	239.2	225.6	208.5	209.9	204.2
72.5°	3287.2	3221.5	1899.9	219.2	181.4	202.1	218.5	207.1	192.1	190.6	184.2
75°	2844.5	2628.2	1360.8	177.1	161.4	178.5	195.6	187.1	173.5	165.6	164.2
77.5°	2167.6	1865.6	815.4	149.9	144.2	158.5	169.2	162.8	152.1	142.8	143.5
80°	1290.9	1076.0	367.7	127.1	124.9	135.7	144.2	139.2	132.1	120.7	117.8
82.5°	522.6	416.3	164.9	102.8	105.7	113.5	121.4	117.1	111.4	108.5	92.1
85°	135.7	130.7	96.4	77.1	81.4	85.0	95.7	95.7	90.7	74.3	68.5
87.5°	38.6	51.4	53.5	48.6	55.0	55.7	66.4	66.4	67.8	45.7	41.4
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)