

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: P573430

Luminaire Tested: **ARCH-S-PA2-70-827-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573430
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-PA2-70-827-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7775 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

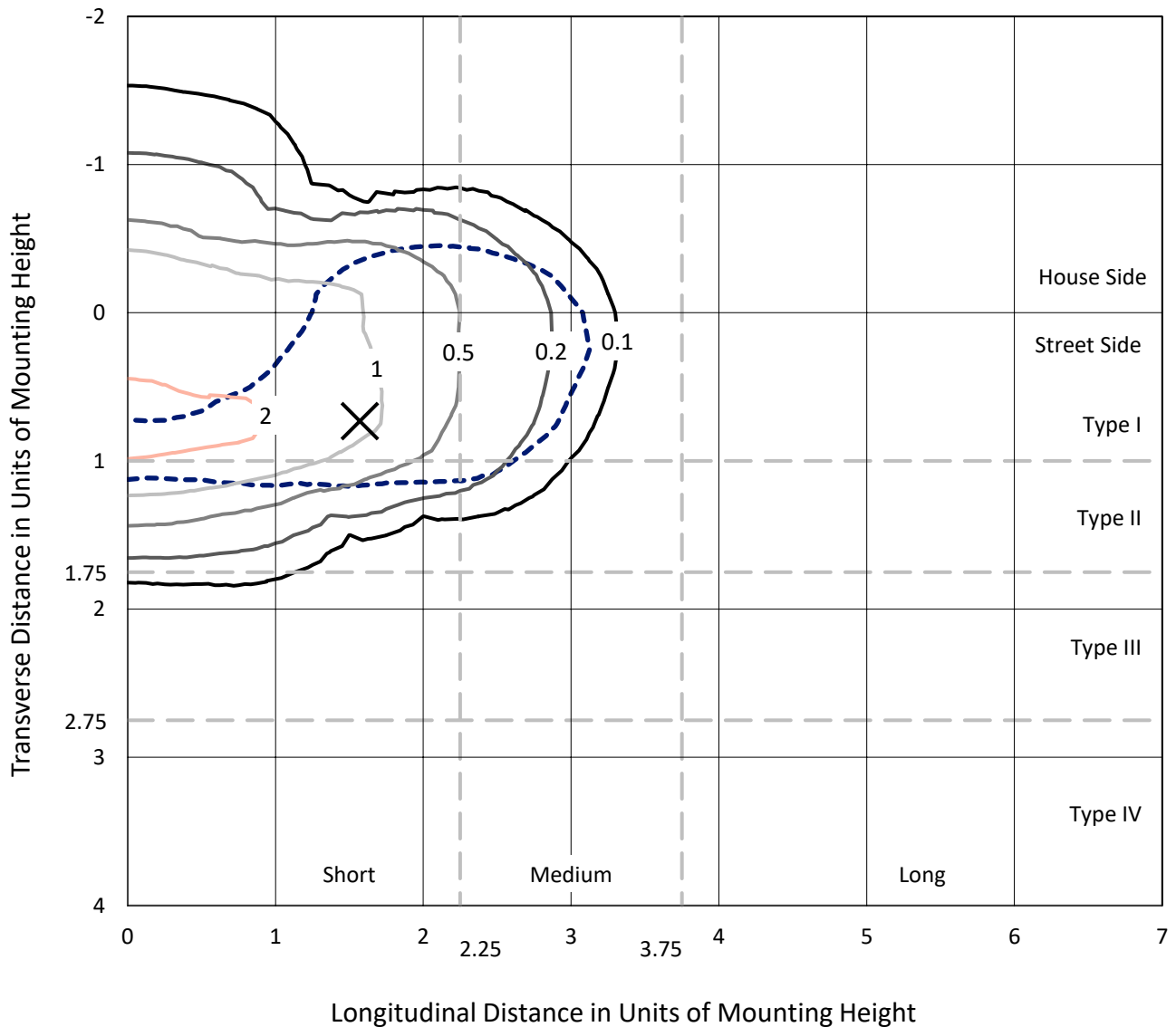
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

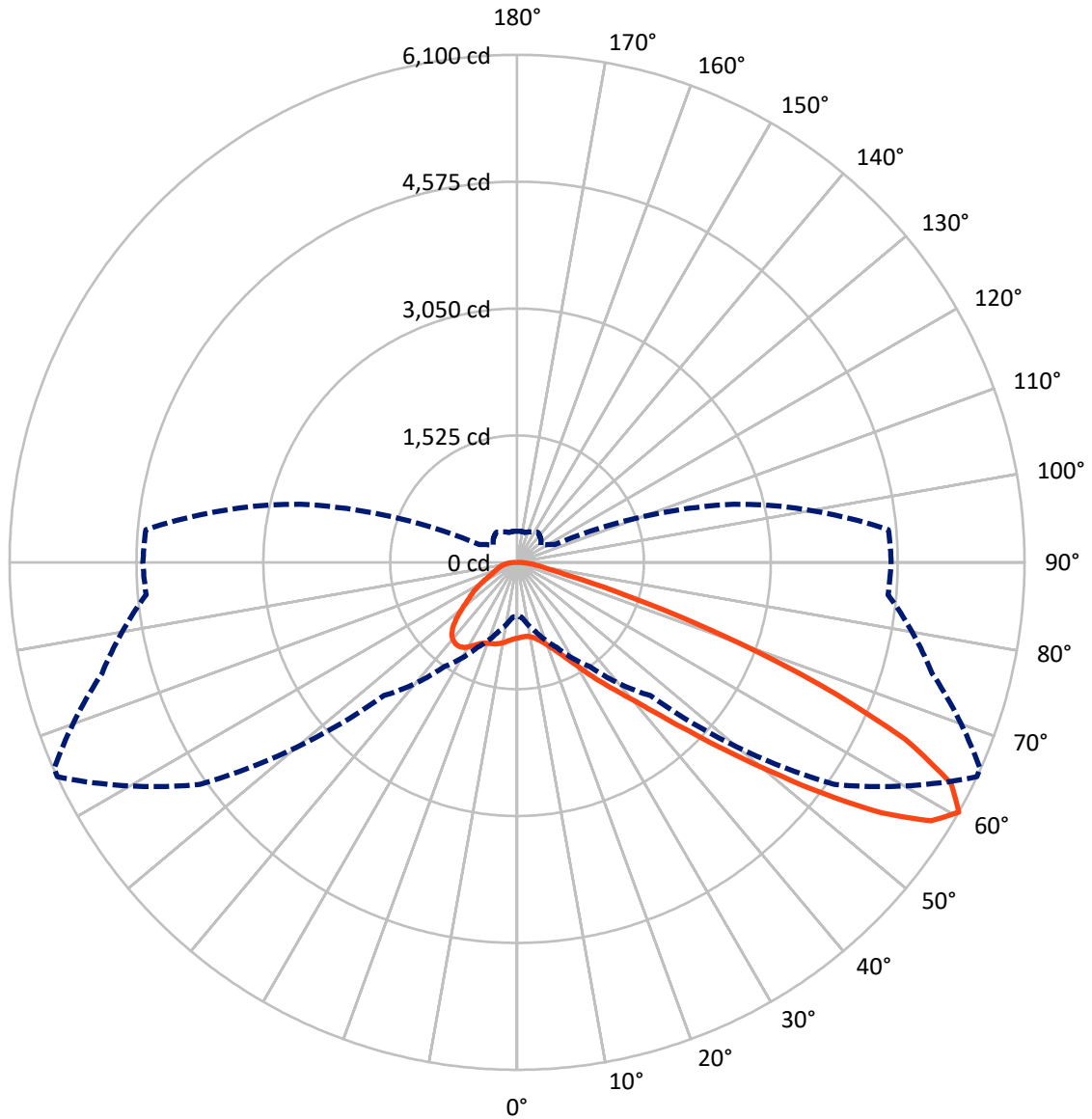
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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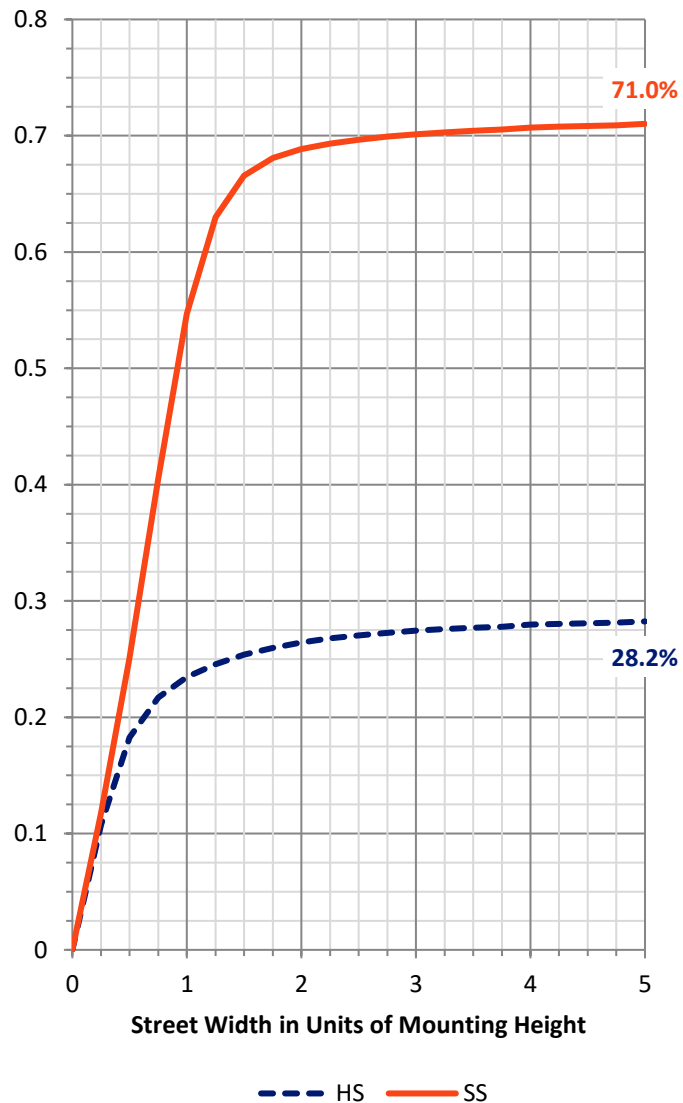
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2225.8	0.0	2225.8
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	5549.2	0.0	5549.2
	% Fixture	71.4	0.0	71.4
Total	Lumens	7775.0	0.0	7775.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	1.1
10°-20°	283.7	3.6
20°-30°	543.8	7.0
30°-40°	944.4	12.1
40°-50°	1601.7	20.6
50°-60°	1994.4	25.7
60°-70°	1607.1	20.7
70°-80°	608.6	7.8
80°-90°	103.2	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°	7775.0	100.0
0°-180°	7775.0	100.0

Coefficient of Utilization



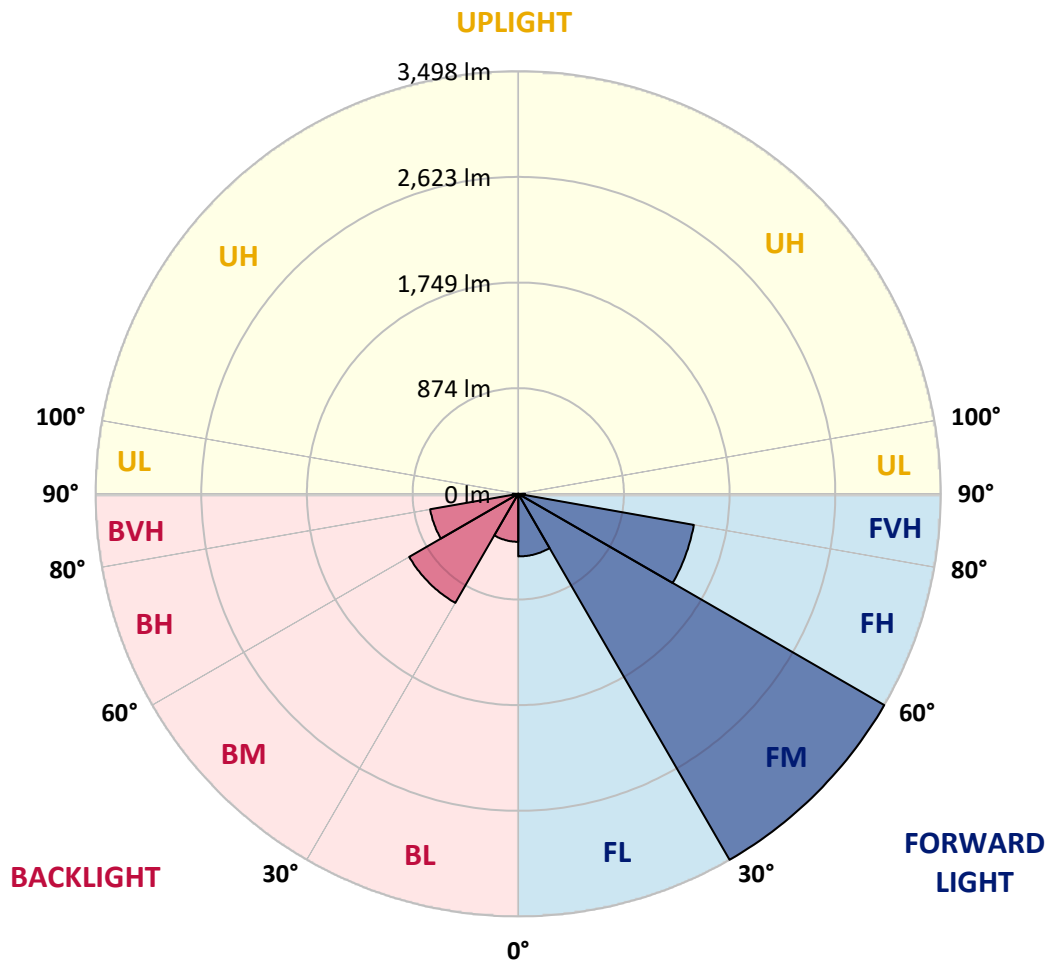
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	518.3	6.7			
FM (30°-60°)	3498.0	45.0			
FH (60°-80°)	1475.7	19.0			G1/1800
FVH (80°-90°)	57.3	0.7			G1/100
BL (0°-30°)	397.2	5.1	B1/500		
BM (30°-60°)	1042.5	13.4	B2/2500		
BH (60°-80°)	740.1	9.5	B2/1000		G2/1000
BVH (80°-90°)	46.0	0.6			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°	65°	66°	75°	85°
0°	912.2	912.2	912.2	912.2	912.2	912.2	912.2	912.2	912.2	912.2	912.2
2.5°	890.9	890.9	890.9	893.1	895.2	897.3	901.6	901.6	901.6	903.7	908.0
5°	873.9	871.7	873.9	876.0	880.3	884.5	893.1	897.3	897.3	905.8	914.4
7.5°	876.0	871.7	871.7	873.9	878.1	882.4	890.9	897.3	899.5	910.1	925.0
10°	897.3	890.9	890.9	893.1	893.1	897.3	903.7	912.2	914.4	925.0	939.9
12.5°	942.1	935.7	933.6	927.2	920.8	925.0	931.4	933.6	935.7	942.1	957.0
15°	1035.9	1025.2	1008.2	995.4	978.3	967.7	965.5	967.7	967.7	969.8	978.3
17.5°	1170.1	1157.4	1131.8	1104.1	1063.6	1029.5	1018.8	1010.3	1010.3	1003.9	1003.9
20°	1334.3	1315.1	1285.2	1244.7	1185.1	1123.3	1087.0	1067.8	1061.4	1050.8	1035.9
22.5°	1524.0	1511.2	1472.8	1411.0	1321.5	1238.3	1178.7	1136.0	1136.0	1110.5	1078.5
25°	1747.8	1724.3	1679.5	1607.1	1485.6	1366.2	1285.2	1223.4	1217.0	1176.5	1125.4
27.5°	1965.2	1950.2	1894.8	1798.9	1654.0	1515.4	1402.5	1330.0	1319.3	1255.4	1176.5
30°	2229.4	2212.4	2129.3	1995.0	1839.4	1681.7	1549.5	1455.7	1445.1	1357.7	1246.9
32.5°	2557.7	2500.1	2397.8	2244.4	2044.0	1867.1	1715.8	1615.6	1602.8	1502.6	1370.5
35°	2956.3	2907.2	2730.3	2568.3	2329.6	2097.3	1916.1	1784.0	1766.9	1647.6	1481.3
37.5°	3237.6	3214.2	3092.7	2964.8	2692.0	2378.6	2157.0	1973.7	1956.6	1798.9	1583.6
40°	3414.5	3391.1	3357.0	3320.7	3169.4	2815.6	2446.9	2197.5	2169.8	2020.6	1788.2
42.5°	3506.2	3487.0	3493.4	3565.8	3608.5	3553.1	2860.3	2495.9	2476.7	2295.5	2037.6
45°	3452.9	3440.1	3501.9	3693.7	3902.6	4311.8	3391.1	2888.1	2836.9	2621.6	2340.3
47.5°	3197.1	3158.7	3303.7	3629.8	4077.4	4674.2	4030.5	3371.9	3316.5	3007.4	2647.2
50°	2670.7	2660.0	2858.2	3271.7	4009.2	4817.0	4714.7	3943.1	3902.6	3423.0	2988.2
52.5°	2180.4	2176.2	2329.6	2709.0	3574.4	4716.8	5211.3	4623.0	4501.5	3840.8	3359.1
55°	1692.3	1690.2	1826.6	2110.1	2851.8	4245.8	5445.7	5315.7	5226.2	4296.9	3740.6
57.5°	1157.4	1142.4	1319.3	1534.6	2142.1	3363.4	5292.3	5863.5	5808.1	4780.7	4145.6
60°	643.7	665.0	861.1	1127.5	1532.5	2265.7	4652.9	6100.1	6091.6	5166.5	4476.0
62.5°	456.1	464.6	547.8	801.4	1008.2	1298.0	3589.3	5855.0	5923.2	5379.7	4663.5
65°	379.4	383.7	424.1	592.5	737.5	750.3	2238.0	5128.2	5217.7	5313.6	4704.0
67.5°	358.1	360.2	381.5	436.9	577.6	543.5	999.6	3915.4	4105.1	4780.7	4439.7
70°	326.1	328.2	360.2	385.8	466.8	428.4	513.7	2600.3	2856.1	3779.0	3828.0
72.5°	279.2	285.6	311.2	362.3	379.4	355.9	396.4	1389.7	1643.3	2527.8	2956.3
75°	240.8	245.1	264.3	306.9	355.9	283.5	336.8	633.0	741.7	1483.5	1871.4
77.5°	194.0	196.1	223.8	251.5	298.4	230.2	262.2	379.4	398.6	724.7	846.2
80°	147.1	147.1	166.2	200.4	221.7	221.7	191.8	264.3	275.0	345.3	334.6
82.5°	113.0	110.8	125.8	140.7	159.9	185.4	144.9	174.8	179.0	208.9	179.0
85°	74.6	74.6	83.1	95.9	106.6	102.3	113.0	102.3	106.6	130.0	98.0
87.5°	32.0	32.0	44.8	42.6	46.9	49.0	55.4	49.0	49.0	59.7	44.8
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°	912.2	912.2	912.2	912.2	912.2	912.2	912.2	912.2	912.2	912.2	912.2
2.5°	910.1	912.2	916.5	918.6	925.0	927.2	927.2	931.4	931.4	935.7	935.7
5°	916.5	922.9	929.3	935.7	942.1	944.2	948.5	950.6	950.6	954.9	952.7
7.5°	929.3	935.7	948.5	954.9	963.4	967.7	965.5	967.7	965.5	967.7	967.7
10°	946.3	954.9	969.8	978.3	984.7	986.8	980.4	974.1	965.5	965.5	965.5
12.5°	965.5	971.9	991.1	997.5	1001.8	995.4	978.3	965.5	959.1	961.3	959.1
15°	984.7	991.1	1006.0	1012.4	1012.4	993.2	978.3	974.1	971.9	974.1	974.1
17.5°	1003.9	1010.3	1023.1	1023.1	1016.7	1001.8	986.8	971.9	961.3	954.9	954.9
20°	1029.5	1029.5	1033.7	1033.7	1031.6	1008.2	971.9	935.7	914.4	901.6	899.5
22.5°	1063.6	1055.0	1046.5	1046.5	1055.0	993.2	922.9	867.5	833.4	829.1	820.6
25°	1099.8	1080.6	1059.3	1074.2	1059.3	954.9	854.7	780.1	739.6	724.7	728.9
27.5°	1138.2	1108.3	1076.4	1119.0	1038.0	880.3	758.8	675.7	637.3	626.6	626.6
30°	1191.5	1146.7	1099.8	1165.9	997.5	795.0	645.8	586.1	564.8	556.3	554.2
32.5°	1293.8	1225.6	1157.4	1208.5	952.7	684.2	569.1	532.9	507.3	498.7	505.1
35°	1385.4	1289.5	1244.7	1227.7	882.4	594.7	522.2	490.2	468.9	458.3	458.3
37.5°	1468.5	1376.9	1342.8	1227.7	790.8	539.2	492.4	466.8	439.1	430.5	430.5
40°	1649.7	1528.2	1468.5	1210.6	677.8	511.5	477.4	447.6	424.1	415.6	413.5
42.5°	1899.1	1735.0	1598.6	1172.3	581.9	498.7	468.9	434.8	415.6	409.2	407.1
45°	2163.4	2018.4	1722.2	1104.1	520.1	486.0	466.8	430.5	407.1	400.7	398.6
47.5°	2483.1	2333.9	1865.0	999.6	477.4	477.4	464.6	424.1	402.8	396.4	396.4
50°	2836.9	2713.3	2046.1	880.3	445.5	471.0	460.4	424.1	400.7	394.3	392.2
52.5°	3199.2	3141.7	2235.8	763.0	413.5	462.5	458.3	424.1	396.4	390.0	390.0
55°	3659.6	3612.7	2455.4	675.7	387.9	445.5	458.3	419.9	390.0	385.8	385.8
57.5°	4111.5	4094.4	2625.9	598.9	368.7	424.1	451.9	413.5	383.7	381.5	381.5
60°	4497.3	4480.2	2698.4	503.0	349.6	402.8	439.1	402.8	373.0	375.1	375.1
62.5°	4736.0	4637.9	2645.1	415.6	330.4	383.7	424.1	390.0	362.3	368.7	366.6
65°	4778.6	4550.5	2438.3	347.4	309.1	362.3	407.1	375.1	347.4	362.3	360.2
67.5°	4465.3	4085.9	2050.4	302.7	287.7	338.9	387.9	353.8	330.4	351.7	345.3
70°	3787.5	3318.6	1517.6	268.6	266.4	311.2	362.3	328.2	306.9	317.6	309.1
72.5°	2819.8	2395.7	982.6	243.0	243.0	279.2	326.1	296.3	275.0	277.1	268.6
75°	1758.4	1472.8	558.4	219.5	219.5	247.2	289.9	260.0	245.1	236.6	247.2
77.5°	799.3	647.9	294.1	196.1	198.2	211.0	249.4	221.7	204.6	191.8	198.2
80°	296.3	264.3	191.8	168.4	172.6	174.8	200.4	176.9	162.0	153.5	149.2
82.5°	153.5	142.8	130.0	134.3	140.7	134.3	155.6	132.1	115.1	108.7	91.7
85°	76.7	74.6	78.9	89.5	98.0	83.1	93.8	85.3	70.3	51.2	51.2
87.5°	29.8	32.0	29.8	40.5	44.8	38.4	42.6	29.8	21.3	10.7	8.5
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)