

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: P573434

Luminaire Tested: **ARCH-S-PA2-70-827-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573434
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-PA2-70-827-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7843 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

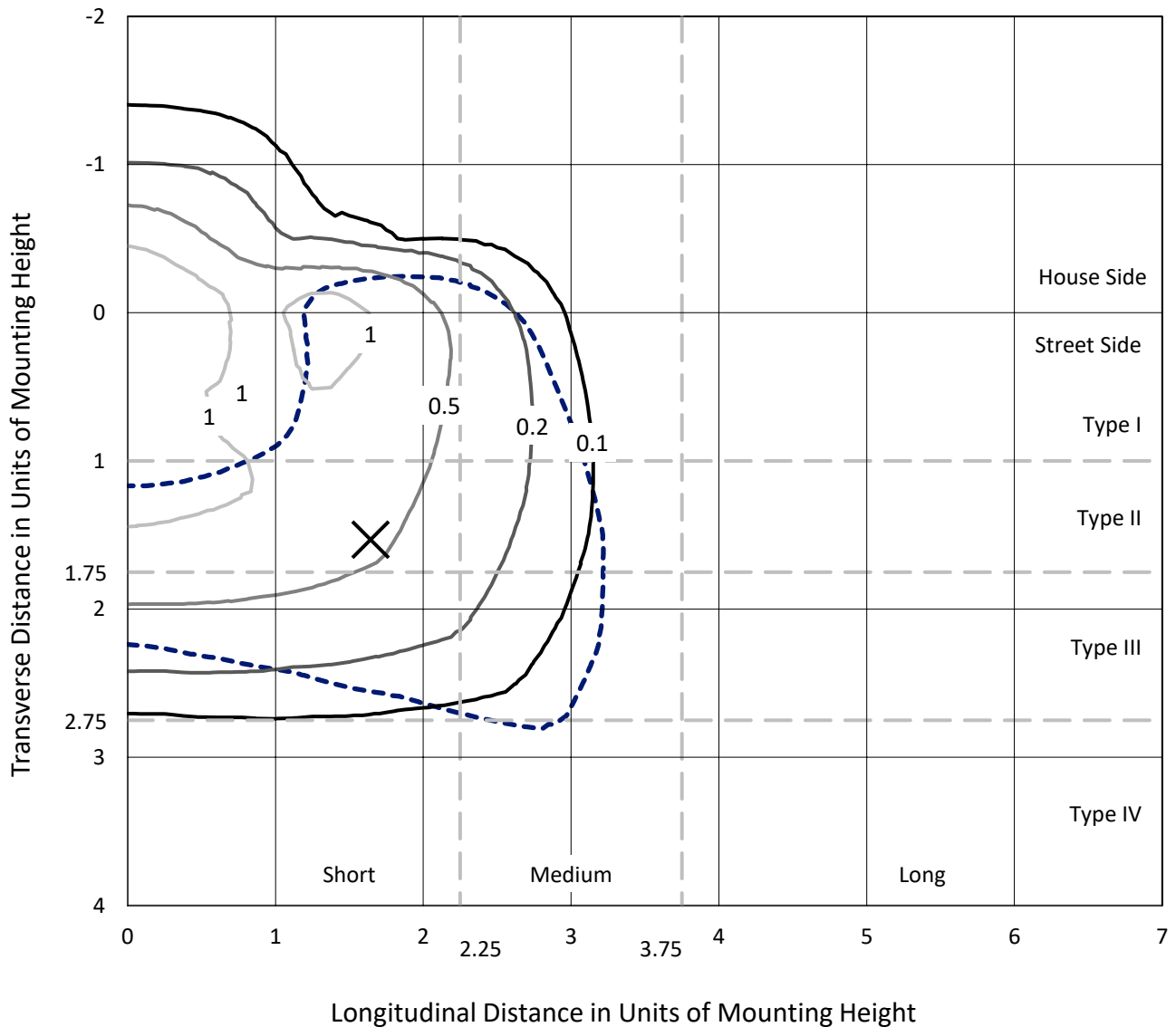
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

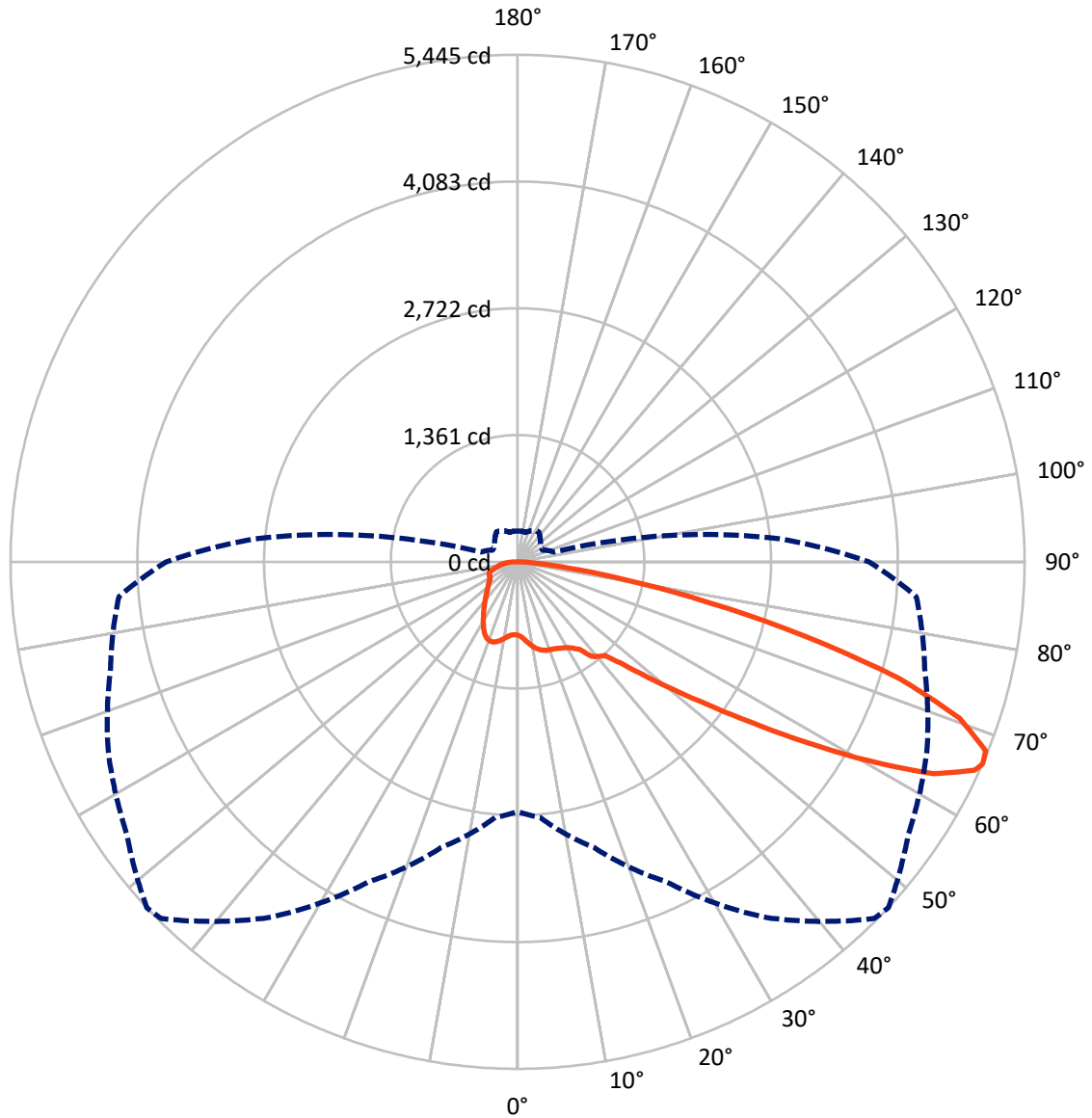
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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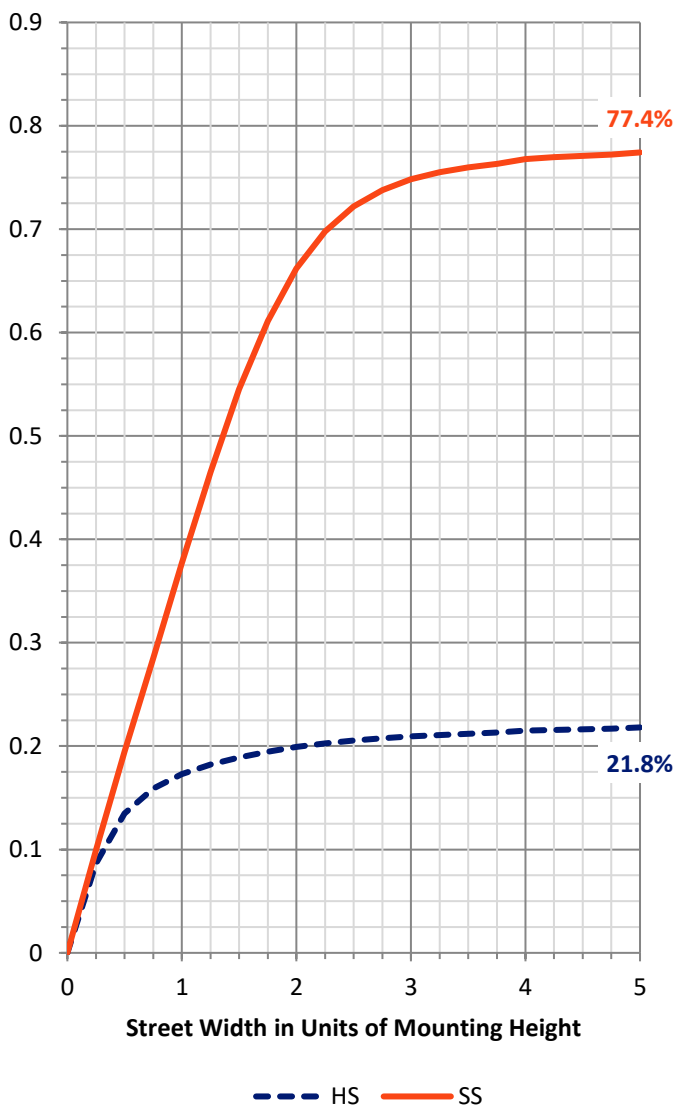
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1743.7	0.0	1743.7
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	6099.3	0.0	6099.3
	% Fixture	77.8	0.0	77.8
Total	Lumens	7843.0	0.0	7843.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	1.0
10°-20°	263.2	3.4
20°-30°	439.0	5.6
30°-40°	637.6	8.1
40°-50°	975.1	12.4
50°-60°	1843.1	23.5
60°-70°	2381.6	30.4
70°-80°	1070.5	13.6
80°-90°	152.7	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°	7843.0	100.0
0°-180°	7843.0	100.0

Coefficient of Utilization



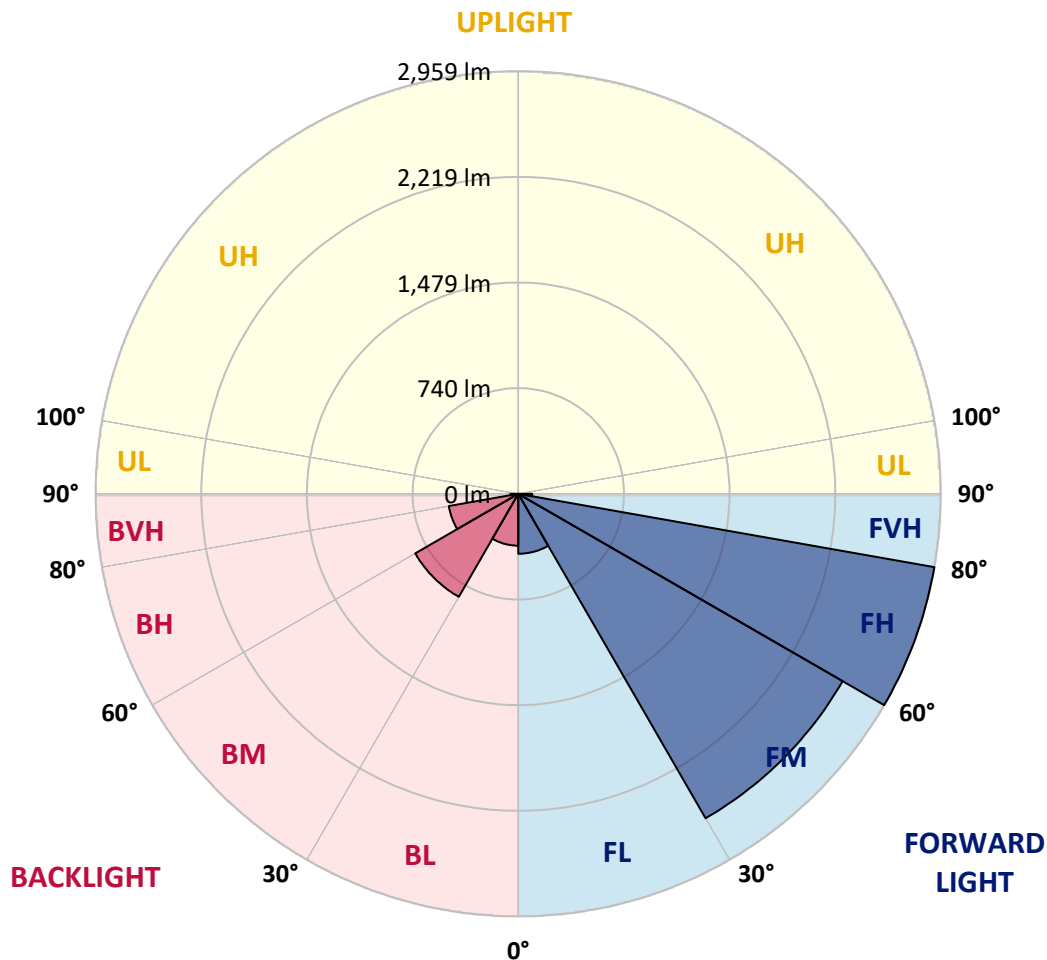
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	419.6	5.4			
FM (30°-60°)	2622.9	33.4			
FH (60°-80°)	2958.7	37.7			G2/5000
FVH (80°-90°)	98.1	1.3			G1/100
BL (0°-30°)	362.9	4.6	B1/500		
BM (30°-60°)	832.9	10.6	B1/1000		
BH (60°-80°)	493.4	6.3	B1/500		G1/500
BVH (80°-90°)	54.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5
2.5°	833.2	826.8	822.6	820.4	816.2	807.6	807.6	805.5	797.0	792.7	790.6
5°	899.3	895.0	884.4	875.8	863.0	846.0	843.9	831.1	814.0	801.2	792.7
7.5°	963.2	958.9	948.3	935.5	914.2	892.9	886.5	869.4	841.7	822.6	807.6
10°	1018.6	1012.2	999.4	982.4	958.9	935.5	929.1	909.9	882.2	854.5	828.9
12.5°	1054.8	1050.6	1035.7	1014.3	988.8	965.3	961.1	944.0	916.3	886.5	854.5
15°	1071.9	1069.7	1052.7	1031.4	1005.8	986.6	984.5	969.6	946.2	916.3	880.1
17.5°	1067.6	1065.5	1050.6	1029.3	1010.1	999.4	999.4	988.8	969.6	944.0	905.7
20°	1046.3	1046.3	1033.5	1018.6	1008.0	1005.8	1005.8	1003.7	990.9	969.6	931.2
22.5°	1025.0	1025.0	1016.5	1005.8	1003.7	1012.2	1014.3	1018.6	1014.3	997.3	963.2
25°	1029.3	1027.1	1016.5	1003.7	1005.8	1025.0	1029.3	1039.9	1037.8	1025.0	995.2
27.5°	1076.1	1074.0	1046.3	1020.7	1018.6	1042.0	1046.3	1061.2	1061.2	1050.6	1031.4
30°	1193.3	1197.6	1146.5	1082.5	1050.6	1065.5	1069.7	1086.8	1095.3	1099.6	1084.7
32.5°	1372.3	1366.0	1289.2	1184.8	1114.5	1099.6	1106.0	1120.9	1150.7	1159.2	1123.0
35°	1553.5	1557.7	1483.2	1351.0	1216.8	1161.4	1157.1	1178.4	1223.2	1184.8	1120.9
37.5°	1721.8	1715.4	1628.1	1485.3	1351.0	1287.1	1289.2	1280.7	1242.4	1165.6	1135.8
40°	1905.1	1888.0	1815.6	1632.3	1461.8	1355.3	1336.1	1263.7	1231.7	1199.7	1195.5
42.5°	2086.2	2088.4	2028.7	1847.6	1594.0	1404.3	1374.5	1299.9	1321.2	1314.8	1310.5
45°	2314.2	2314.2	2254.6	2086.2	1802.8	1587.6	1547.1	1457.6	1491.7	1517.3	1568.4
47.5°	2523.1	2510.3	2493.2	2350.5	2075.6	1826.2	1809.2	1706.9	1796.4	1875.3	1979.7
50°	2744.7	2727.6	2717.0	2629.6	2433.6	2188.5	2137.4	2030.8	2226.9	2373.9	2567.8
52.5°	3089.9	3060.1	3004.7	2955.7	2878.9	2595.5	2531.6	2452.7	2706.3	2891.7	3288.1
55°	3401.0	3375.5	3322.2	3358.4	3347.8	3089.9	3034.5	2959.9	3234.8	3460.7	3914.6
57.5°	3516.1	3518.2	3590.7	3784.6	3886.9	3737.7	3658.9	3584.3	3816.6	3921.0	4330.1
60°	3569.4	3563.0	3750.5	4065.9	4398.3	4443.1	4342.9	4189.5	4276.9	4283.3	4681.7
62.5°	3454.3	3471.4	3729.2	4183.1	4705.2	5027.0	5012.0	4743.5	4662.6	4573.1	4775.5
65°	3017.5	3040.9	3420.2	3974.3	4754.2	5380.7	5395.6	5082.4	4856.5	4607.2	4509.1
66°	2685.0	2755.3	3177.3	3793.1	4664.7	5416.9	5444.6	5118.6	4848.0	4526.2	4298.2
67.5°	2252.4	2248.2	2719.1	3394.6	4415.4	5385.0	5421.2	5067.5	4732.9	4287.5	3876.2
70°	1378.7	1421.4	1826.2	2533.7	3654.6	4986.5	5035.5	4707.3	4236.4	3631.2	2866.2
72.5°	707.5	777.8	1044.2	1647.2	2653.1	4121.3	4287.5	3953.0	3462.8	2627.5	1749.5
75°	375.1	370.8	492.3	892.9	1694.1	3092.0	3179.4	2964.2	2393.1	1566.3	890.7
77.5°	200.3	211.0	257.8	458.2	931.2	1975.4	2086.2	1911.5	1363.8	801.2	426.2
80°	136.4	142.8	174.7	257.8	505.0	1071.9	1174.2	1018.6	713.9	379.3	200.3
82.5°	87.4	91.6	119.3	159.8	302.6	520.0	547.7	522.1	349.5	215.2	121.5
85°	53.3	55.4	72.5	102.3	189.7	211.0	219.5	221.6	196.0	140.6	66.1
87.5°	25.6	27.7	40.5	51.1	89.5	76.7	70.3	72.5	108.7	83.1	29.8
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°	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5
2.5°	788.5	786.3	782.1	779.9	782.1	782.1	782.1	784.2	788.5	788.5	790.6
5°	788.5	784.2	779.9	779.9	784.2	788.5	792.7	801.2	805.5	807.6	807.6
7.5°	799.1	794.9	790.6	790.6	797.0	805.5	814.0	824.7	835.3	843.9	843.9
10°	820.4	814.0	809.8	811.9	822.6	833.2	843.9	856.7	867.3	878.0	878.0
12.5°	843.9	837.5	831.1	835.3	850.3	863.0	873.7	880.1	890.7	899.3	899.3
15°	867.3	856.7	854.5	863.0	878.0	886.5	890.7	890.7	895.0	903.5	903.5
17.5°	892.9	882.2	880.1	888.6	901.4	901.4	892.9	886.5	884.4	890.7	892.9
20°	918.4	907.8	907.8	914.2	912.1	897.1	882.2	871.6	863.0	869.4	871.6
22.5°	950.4	939.8	935.5	927.0	907.8	878.0	854.5	841.7	835.3	839.6	843.9
25°	982.4	973.9	963.2	933.4	888.6	841.7	811.9	801.2	803.4	811.9	816.2
27.5°	1022.9	1018.6	993.0	929.1	854.5	790.6	760.8	758.6	767.2	779.9	786.3
30°	1071.9	1065.5	1020.7	916.3	807.6	730.9	709.6	713.9	726.7	737.3	743.7
32.5°	1106.0	1101.7	1033.5	886.5	750.1	677.6	660.6	660.6	667.0	681.9	688.3
35°	1116.6	1133.7	1042.0	841.7	681.9	630.8	613.7	603.1	603.1	615.9	620.1
37.5°	1152.9	1191.2	1046.3	782.1	626.5	588.1	566.8	547.7	541.3	539.1	539.1
40°	1236.0	1280.7	1044.2	705.4	573.2	545.5	520.0	498.6	481.6	458.2	460.3
42.5°	1380.9	1415.0	1037.8	624.4	526.4	507.2	481.6	456.0	428.3	402.8	400.6
45°	1660.0	1608.9	1020.7	554.1	483.7	473.1	449.6	419.8	385.7	362.3	362.3
47.5°	2101.1	1960.5	1010.1	488.0	445.4	443.2	421.9	390.0	355.9	338.8	336.7
50°	2706.3	2446.4	1027.1	441.1	411.3	417.7	400.6	370.8	343.1	328.2	326.0
52.5°	3401.0	2968.4	1046.3	411.3	385.7	398.5	390.0	362.3	334.6	321.8	319.6
55°	3938.0	3392.5	1018.6	383.6	360.1	379.3	379.3	353.7	330.3	317.5	317.5
57.5°	4315.2	3563.0	922.7	358.0	338.8	362.3	368.7	349.5	328.2	323.9	323.9
60°	4477.2	3554.5	754.4	334.6	323.9	345.2	362.3	345.2	332.4	343.1	345.2
62.5°	4389.8	3369.1	586.0	317.5	313.3	341.0	368.7	362.3	347.3	355.9	360.1
65°	3995.6	3043.0	441.1	302.6	300.5	343.1	385.7	372.9	336.7	338.8	341.0
66°	3774.0	2823.5	404.9	298.3	296.2	345.2	394.2	368.7	328.2	332.4	330.3
67.5°	3300.9	2478.3	355.9	289.8	287.7	345.2	404.9	360.1	317.5	323.9	317.5
70°	2420.8	1753.8	304.7	279.2	274.9	338.8	402.8	343.1	294.1	289.8	279.2
72.5°	1404.3	1061.2	270.6	266.4	255.7	298.3	377.2	315.4	268.5	255.7	245.1
75°	690.4	539.1	240.8	251.5	223.8	262.1	341.0	291.9	247.2	230.1	223.8
77.5°	317.5	272.8	217.4	230.1	198.2	225.9	311.1	266.4	219.5	193.9	187.5
80°	172.6	170.5	183.3	191.8	166.2	198.2	274.9	232.3	185.4	157.7	149.2
82.5°	106.5	108.7	134.3	147.0	130.0	172.6	242.9	193.9	140.6	110.8	112.9
85°	55.4	61.8	89.5	98.0	85.2	127.9	183.3	130.0	78.8	57.5	57.5
87.5°	19.2	25.6	44.8	53.3	46.9	76.7	115.1	61.8	17.0	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)