

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: P573592

Luminaire Tested: **ARCH-S-PA2-90-827-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573592
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-PA2-90-827-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9323 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

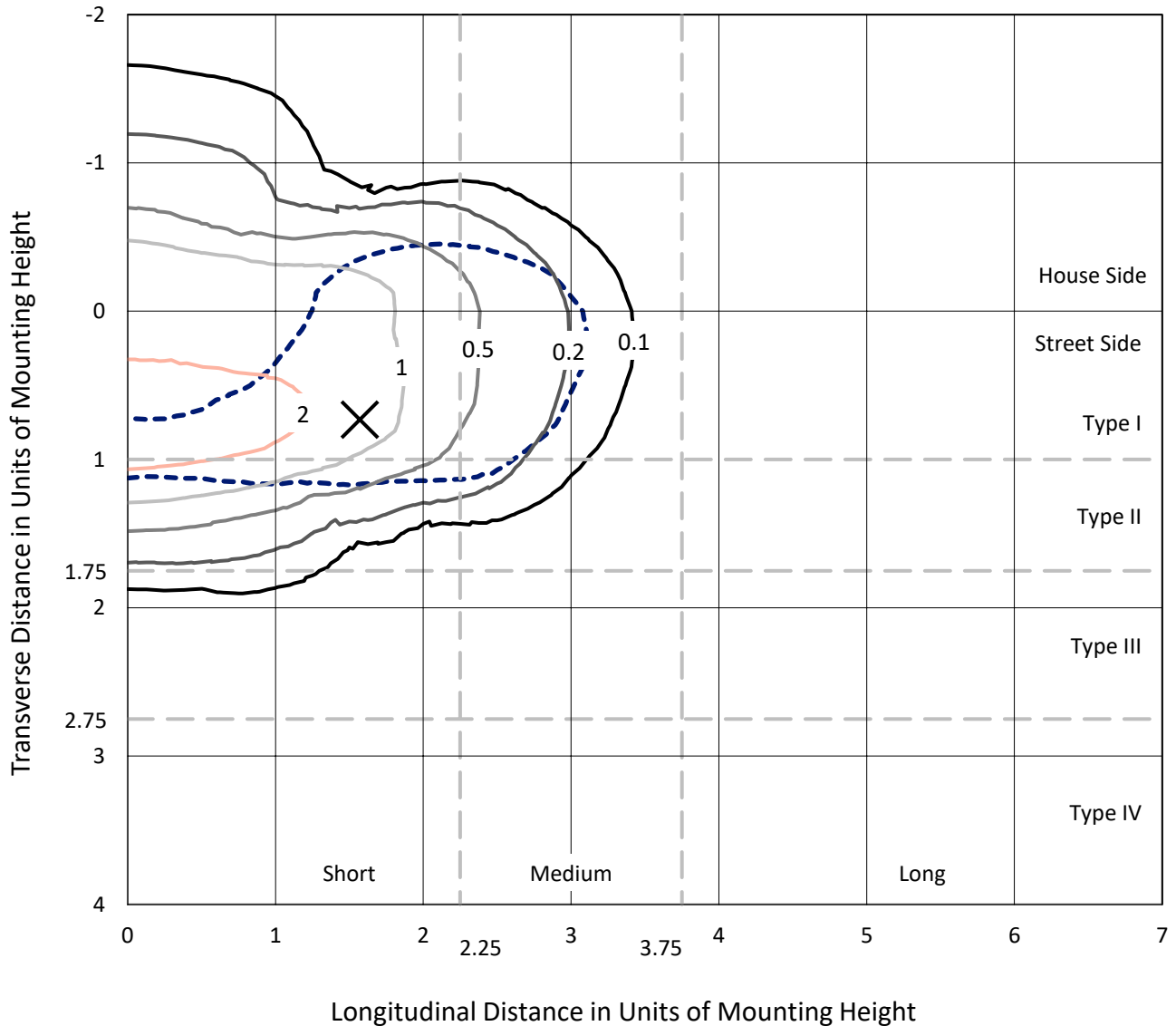
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

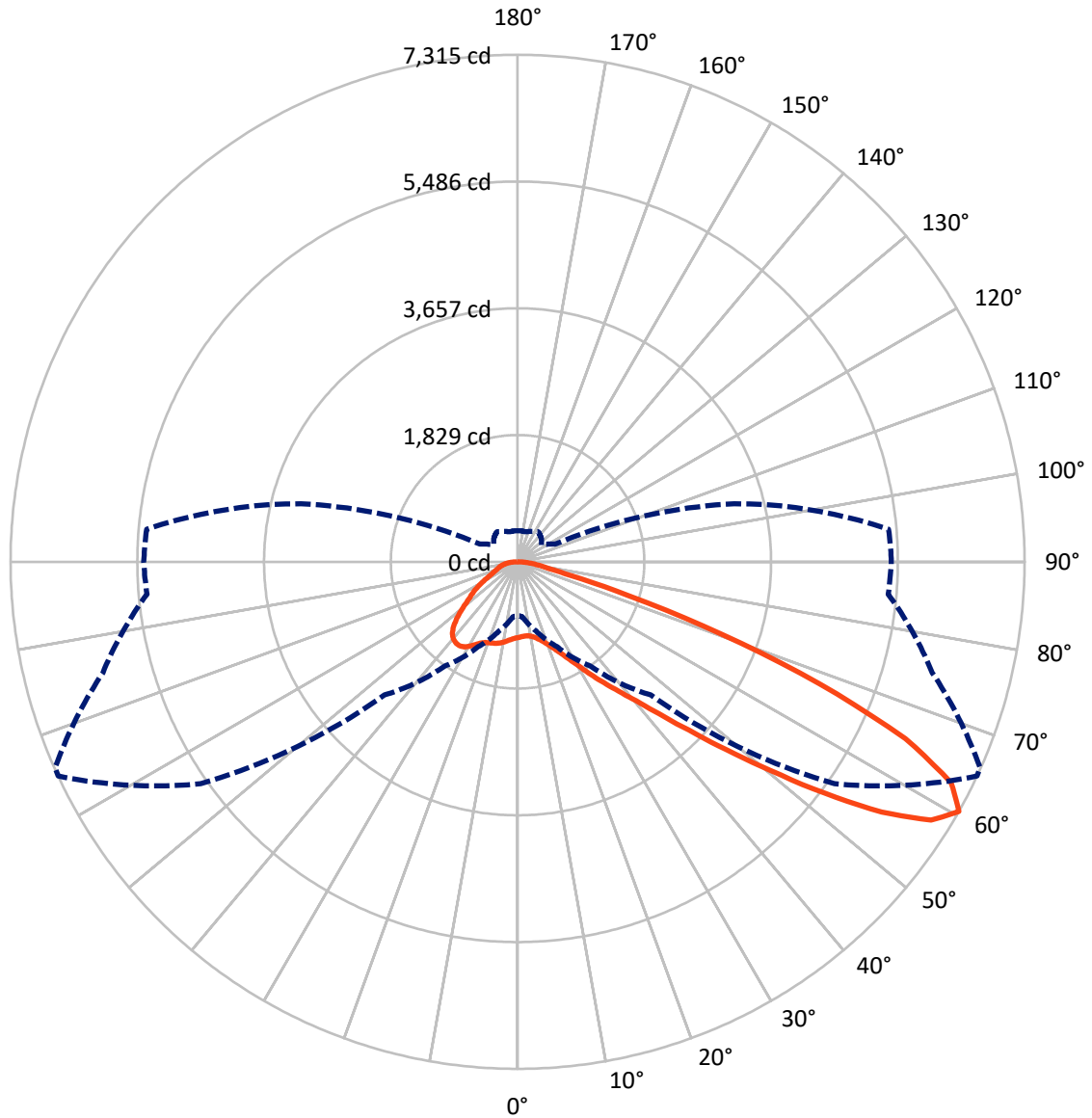
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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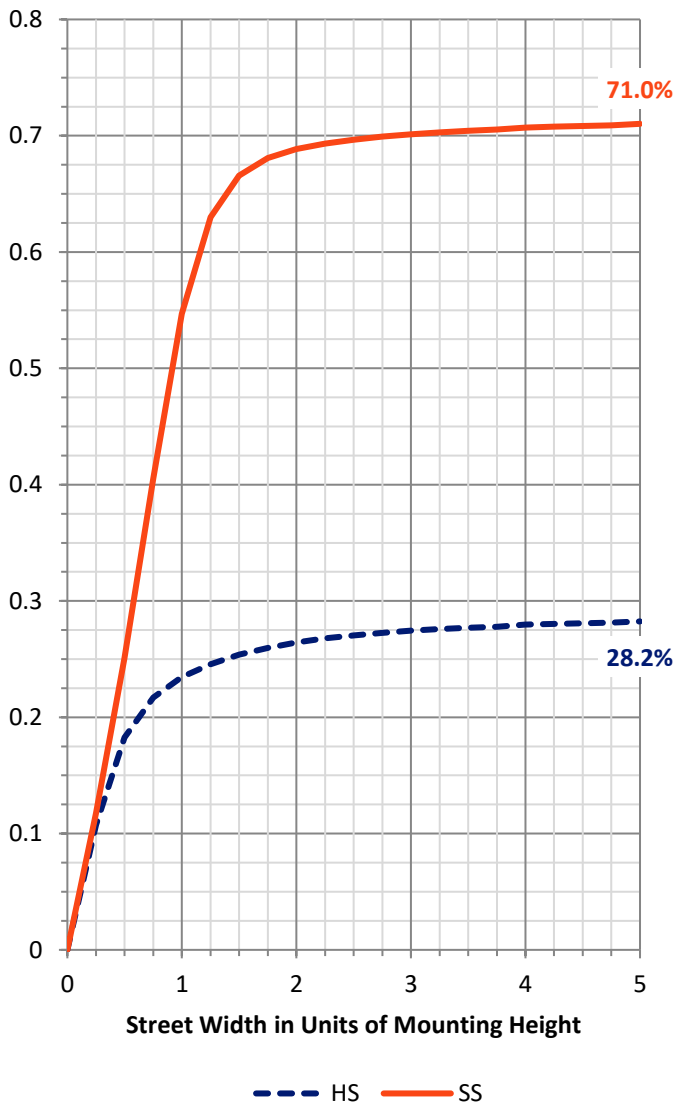
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2668.9	0.0	2668.9
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	6654.1	0.0	6654.1
	% Fixture	71.4	0.0	71.4
Total	Lumens	9323.0	0.0	9323.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	1.1
10°-20°	340.1	3.6
20°-30°	652.0	7.0
30°-40°	1132.4	12.1
40°-50°	1920.6	20.6
50°-60°	2391.5	25.7
60°-70°	1927.1	20.7
70°-80°	729.7	7.8
80°-90°	123.8	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°	9323.0	100.0
0°-180°	9323.0	100.0

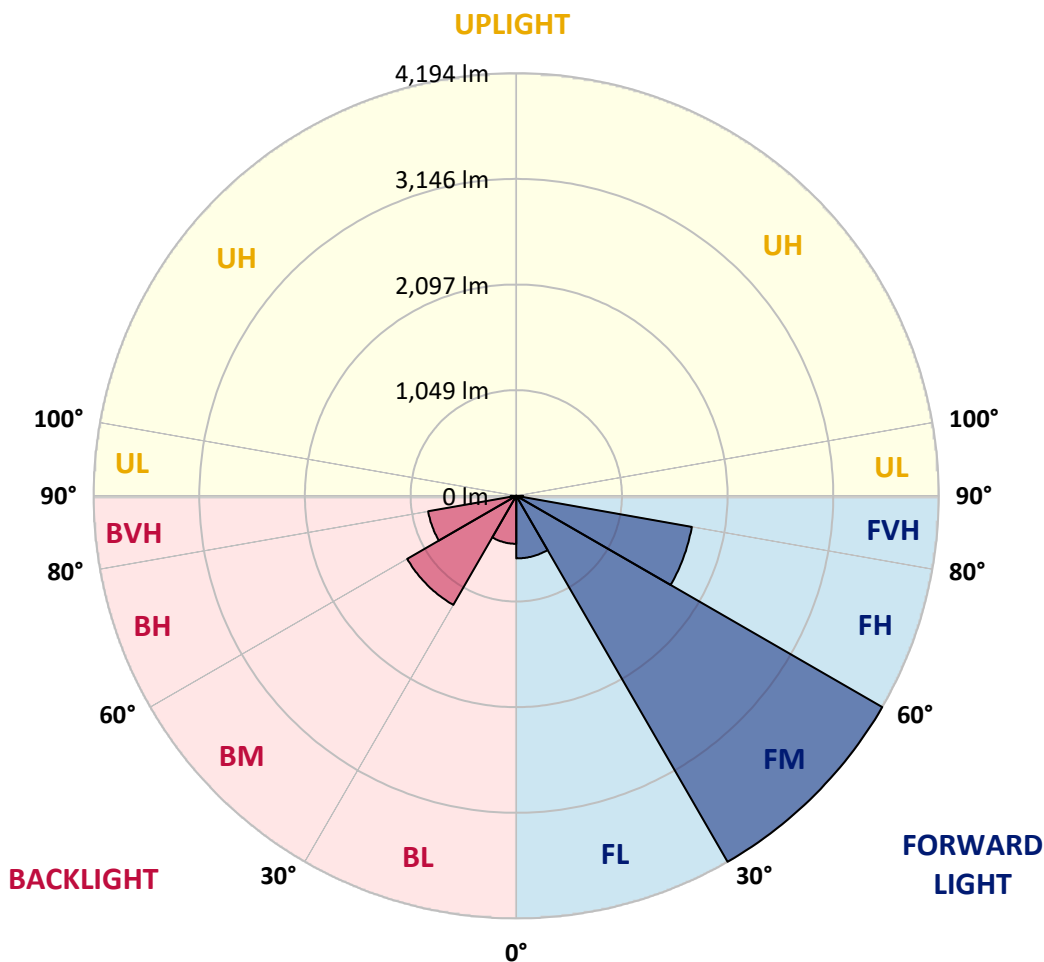


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	621.5	6.7			
FM (30°-60°)	4194.4	45.0			
FH (60°-80°)	1769.5	19.0			G1/1800
FVH (80°-90°)	68.7	0.7			G1/100
BL (0°-30°)	476.3	5.1	B1/500		
BM (30°-60°)	1250.1	13.4	B2/2500		
BH (60°-80°)	887.4	9.5	B2/1000		G2/1000
BVH (80°-90°)	55.1	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°	1093.9	1093.9	1093.9	1093.9	1093.9	1093.9	1093.9	1093.9	1093.9	1093.9	1093.9
2.5°	1068.3	1068.3	1068.3	1070.9	1073.4	1076.0	1081.1	1081.1	1081.1	1083.6	1088.8
5°	1047.9	1045.3	1047.9	1050.4	1055.5	1060.6	1070.9	1076.0	1076.0	1086.2	1096.4
7.5°	1050.4	1045.3	1045.3	1047.9	1053.0	1058.1	1068.3	1076.0	1078.5	1091.3	1109.2
10°	1076.0	1068.3	1068.3	1070.9	1070.9	1076.0	1083.6	1093.9	1096.4	1109.2	1127.1
12.5°	1129.6	1122.0	1119.4	1111.8	1104.1	1109.2	1116.9	1119.4	1122.0	1129.6	1147.5
15°	1242.1	1229.3	1208.9	1193.5	1173.1	1160.3	1157.8	1160.3	1160.3	1162.9	1173.1
17.5°	1403.1	1387.8	1357.1	1323.9	1275.3	1234.4	1221.7	1211.4	1211.4	1203.8	1203.8
20°	1599.9	1576.9	1541.1	1492.6	1421.0	1346.9	1303.4	1280.4	1272.8	1260.0	1242.1
22.5°	1827.4	1812.0	1766.0	1691.9	1584.6	1484.9	1413.3	1362.2	1362.2	1331.6	1293.2
25°	2095.7	2067.6	2013.9	1927.0	1781.4	1638.2	1541.1	1467.0	1459.3	1410.8	1349.4
27.5°	2356.4	2338.5	2272.1	2157.1	1983.3	1817.2	1681.7	1594.8	1582.0	1505.3	1410.8
30°	2673.3	2652.9	2553.2	2392.2	2205.6	2016.5	1858.0	1745.6	1732.8	1628.0	1495.1
32.5°	3066.9	2997.9	2875.2	2691.2	2451.0	2238.9	2057.4	1937.3	1921.9	1801.8	1643.4
35°	3544.8	3486.1	3273.9	3079.7	2793.5	2514.9	2297.6	2139.2	2118.7	1975.6	1776.3
37.5°	3882.2	3854.1	3708.4	3555.1	3227.9	2852.2	2586.4	2366.6	2346.2	2157.1	1898.9
40°	4094.3	4066.2	4025.3	3981.9	3800.4	3376.2	2934.0	2635.0	2601.8	2422.9	2144.3
42.5°	4204.2	4181.2	4188.9	4275.8	4326.9	4260.5	3429.8	2992.8	2969.8	2752.6	2443.3
45°	4140.3	4125.0	4199.1	4429.1	4679.6	5170.3	4066.2	3463.1	3401.7	3143.6	2806.2
47.5°	3833.7	3787.6	3961.4	4352.5	4889.2	5604.8	4833.0	4043.2	3976.8	3606.2	3174.3
50°	3202.4	3189.6	3427.3	3923.1	4807.4	5776.0	5653.4	4728.2	4679.6	4104.6	3583.2
52.5°	2614.5	2609.4	2793.5	3248.4	4286.0	5655.9	6248.9	5543.5	5397.8	4605.5	4027.9
55°	2029.3	2026.7	2190.3	2530.2	3419.6	5091.1	6530.0	6374.1	6266.7	5152.4	4485.4
57.5°	1387.8	1369.9	1582.0	1840.2	2568.5	4033.0	6346.0	7030.9	6964.5	5732.6	4971.0
60°	771.8	797.4	1032.5	1352.0	1837.6	2716.8	5579.2	7314.6	7304.4	6195.2	5367.1
62.5°	546.9	557.2	656.8	961.0	1208.9	1556.5	4303.9	7020.7	7102.5	6450.8	5592.0
65°	454.9	460.0	508.6	710.5	884.3	899.6	2683.6	6149.2	6256.5	6371.5	5640.6
67.5°	429.4	431.9	457.5	523.9	692.6	651.7	1198.7	4694.9	4922.4	5732.6	5323.7
70°	391.0	393.6	431.9	462.6	559.7	513.7	615.9	3118.0	3424.7	4531.4	4590.2
72.5°	334.8	342.5	373.1	434.5	454.9	426.8	475.4	1666.4	1970.5	3031.1	3544.8
75°	288.8	293.9	316.9	368.0	426.8	339.9	403.8	759.1	889.4	1778.8	2244.0
77.5°	232.6	235.1	268.4	301.6	357.8	276.0	314.4	454.9	477.9	869.0	1014.6
80°	176.3	176.3	199.3	240.2	265.8	265.8	230.0	316.9	329.7	414.0	401.3
82.5°	135.5	132.9	150.8	168.7	191.7	222.4	173.8	209.6	214.7	250.5	214.7
85°	89.5	89.5	99.7	115.0	127.8	122.7	135.5	122.7	127.8	155.9	117.6
87.5°	38.3	38.3	53.7	51.1	56.2	58.8	66.4	58.8	58.8	71.6	53.7
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°	1093.9	1093.9	1093.9	1093.9	1093.9	1093.9	1093.9	1093.9	1093.9	1093.9	1093.9
2.5°	1091.3	1093.9	1099.0	1101.5	1109.2	1111.8	1111.8	1116.9	1116.9	1122.0	1122.0
5°	1099.0	1106.6	1114.3	1122.0	1129.6	1132.2	1137.3	1139.9	1139.9	1145.0	1142.4
7.5°	1114.3	1122.0	1137.3	1145.0	1155.2	1160.3	1157.8	1160.3	1157.8	1160.3	1160.3
10°	1134.8	1145.0	1162.9	1173.1	1180.8	1183.3	1175.7	1168.0	1157.8	1157.8	1157.8
12.5°	1157.8	1165.4	1188.4	1196.1	1201.2	1193.5	1173.1	1157.8	1150.1	1152.7	1150.1
15°	1180.8	1188.4	1206.3	1214.0	1214.0	1191.0	1173.1	1168.0	1165.4	1168.0	1168.0
17.5°	1203.8	1211.4	1226.8	1226.8	1219.1	1201.2	1183.3	1165.4	1152.7	1145.0	1145.0
20°	1234.4	1234.4	1239.5	1239.5	1237.0	1208.9	1165.4	1122.0	1096.4	1081.1	1078.5
22.5°	1275.3	1265.1	1254.9	1254.9	1265.1	1191.0	1106.6	1040.2	999.3	994.2	984.0
25°	1318.8	1295.8	1270.2	1288.1	1270.2	1145.0	1024.9	935.4	886.9	869.0	874.1
27.5°	1364.8	1329.0	1290.7	1341.8	1244.7	1055.5	909.9	810.2	764.2	751.4	751.4
30°	1428.7	1375.0	1318.8	1398.0	1196.1	953.3	774.4	702.8	677.3	667.1	664.5
32.5°	1551.4	1469.6	1387.8	1449.1	1142.4	820.4	682.4	638.9	608.3	598.0	605.7
35°	1661.2	1546.2	1492.6	1472.1	1058.1	713.1	626.2	587.8	562.3	549.5	549.5
37.5°	1760.9	1651.0	1610.1	1472.1	948.2	646.6	590.4	559.7	526.5	516.3	516.3
40°	1978.2	1832.5	1760.9	1451.7	812.7	613.4	572.5	536.7	508.6	498.4	495.8
42.5°	2277.2	2080.4	1916.8	1405.7	697.7	598.0	562.3	521.4	498.4	490.7	488.2
45°	2594.1	2420.3	2065.1	1323.9	623.6	582.7	559.7	516.3	488.2	480.5	477.9
47.5°	2977.5	2798.6	2236.3	1198.7	572.5	572.5	557.2	508.6	483.0	475.4	475.4
50°	3401.7	3253.5	2453.5	1055.5	534.2	564.8	552.0	508.6	480.5	472.8	470.3
52.5°	3836.2	3767.2	2681.0	915.0	495.8	554.6	549.5	508.6	475.4	467.7	467.7
55°	4388.3	4332.0	2944.2	810.2	465.1	534.2	549.5	503.5	467.7	462.6	462.6
57.5°	4930.1	4909.6	3148.7	718.2	442.1	508.6	541.8	495.8	460.0	457.5	457.5
60°	5392.7	5372.2	3235.6	603.2	419.1	483.0	526.5	483.0	447.3	449.8	449.8
62.5°	5678.9	5561.3	3171.7	498.4	396.1	460.0	508.6	467.7	434.5	442.1	439.6
65°	5730.0	5456.6	2923.8	416.6	370.6	434.5	488.2	449.8	416.6	434.5	431.9
67.5°	5354.3	4899.4	2458.6	362.9	345.0	406.4	465.1	424.3	396.1	421.7	414.0
70°	4541.6	3979.3	1819.7	322.0	319.5	373.1	434.5	393.6	368.0	380.8	370.6
72.5°	3381.3	2872.7	1178.2	291.4	291.4	334.8	391.0	355.3	329.7	332.2	322.0
75°	2108.5	1766.0	669.6	263.2	263.2	296.5	347.6	311.8	293.9	283.7	296.5
77.5°	958.4	777.0	352.7	235.1	237.7	253.0	299.0	265.8	245.4	230.0	237.7
80°	355.3	316.9	230.0	201.9	207.0	209.6	240.2	212.1	194.2	184.0	178.9
82.5°	184.0	171.2	155.9	161.0	168.7	161.0	186.6	158.5	138.0	130.3	109.9
85°	92.0	89.5	94.6	107.3	117.6	99.7	112.5	102.2	84.3	61.3	61.3
87.5°	35.8	38.3	35.8	48.6	53.7	46.0	51.1	35.8	25.6	12.8	10.2
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)