

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: P573331

Luminaire Tested: **ARCH-S-PA2-60-750-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573331
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-PA2-60-750-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9346 lumens
Efficiency: N/A
Efficacy: 148.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

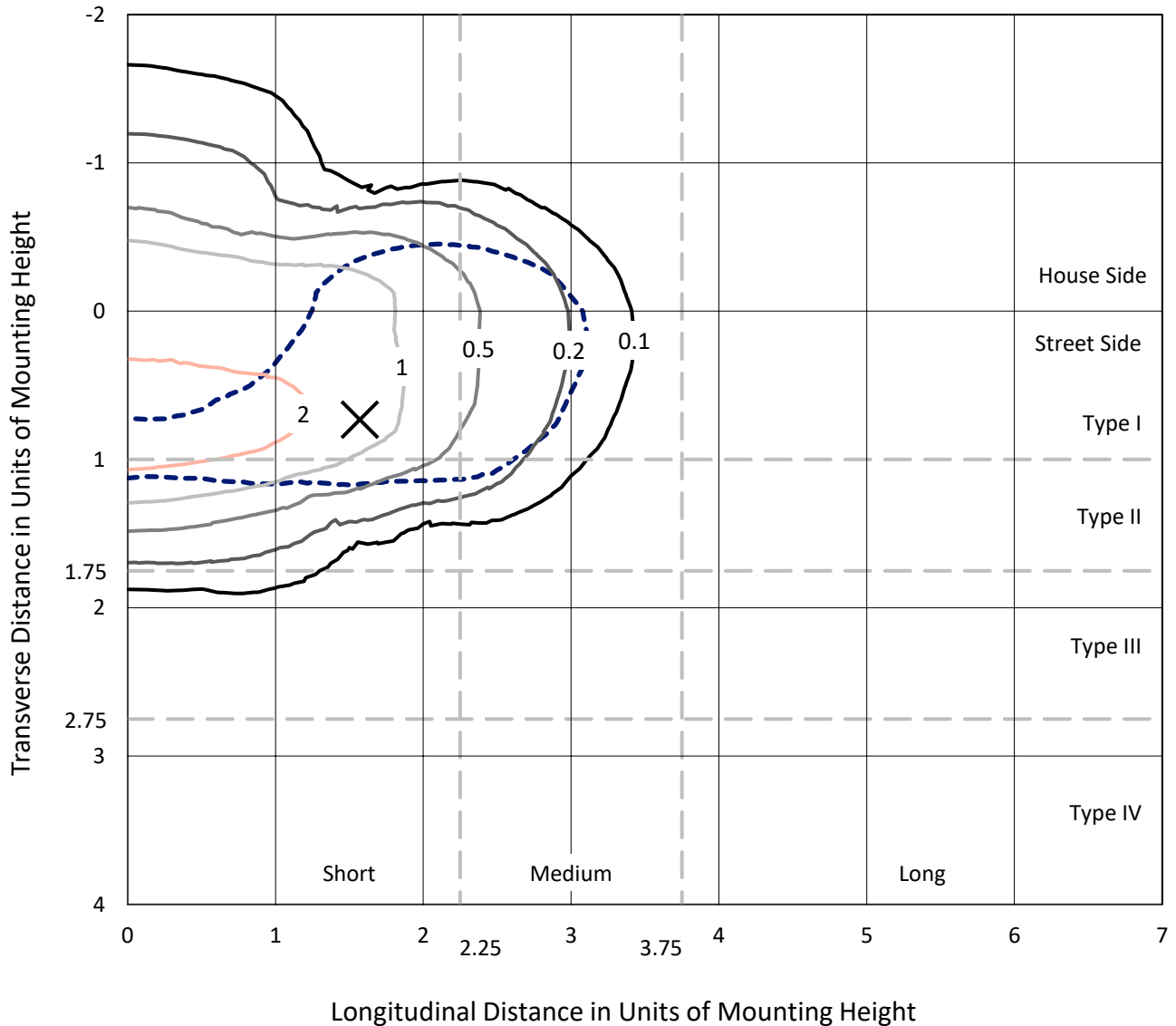
Input Watts (W): 63.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

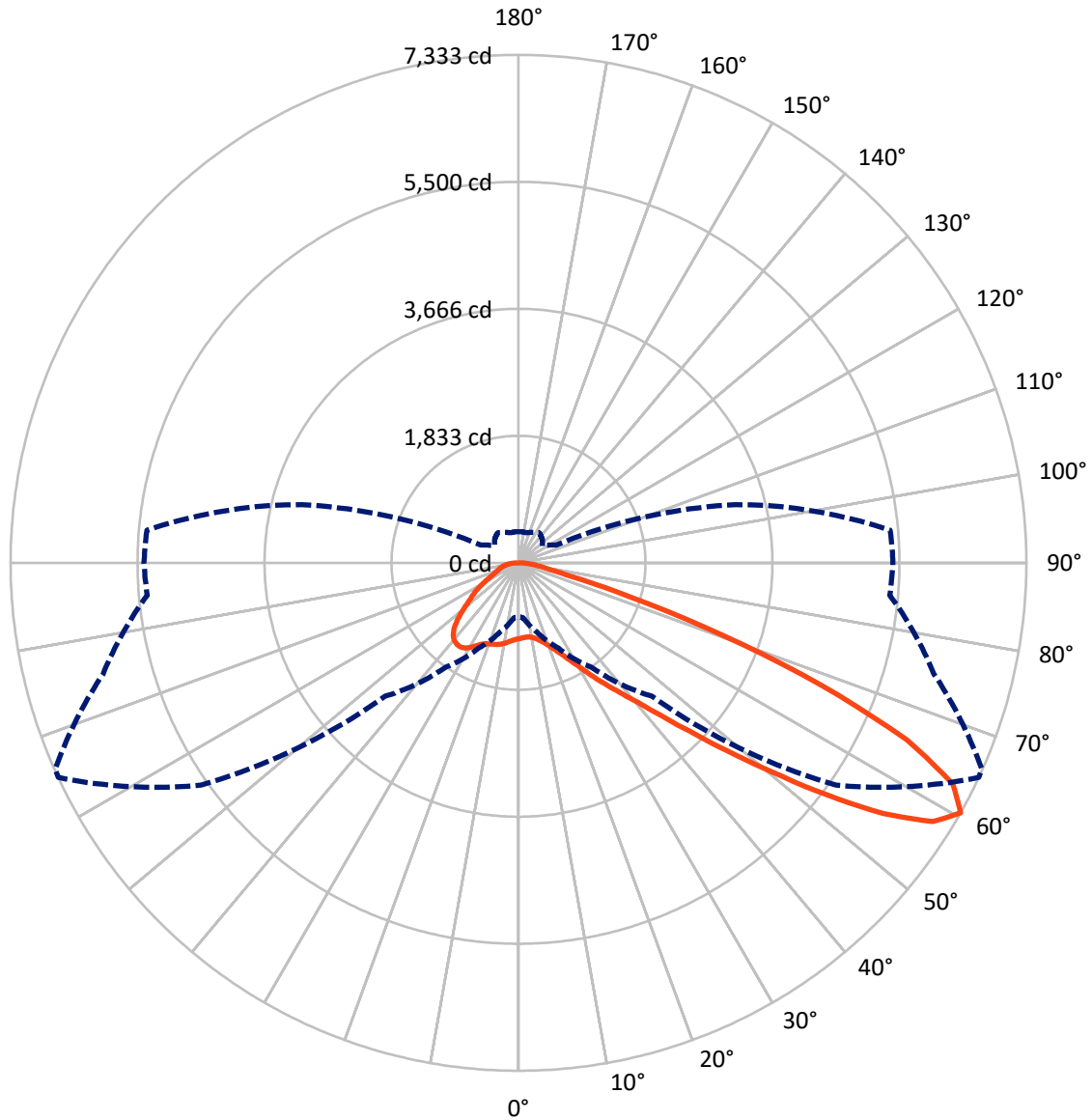
✕ Max cd
 - - - 1/2 Max cd



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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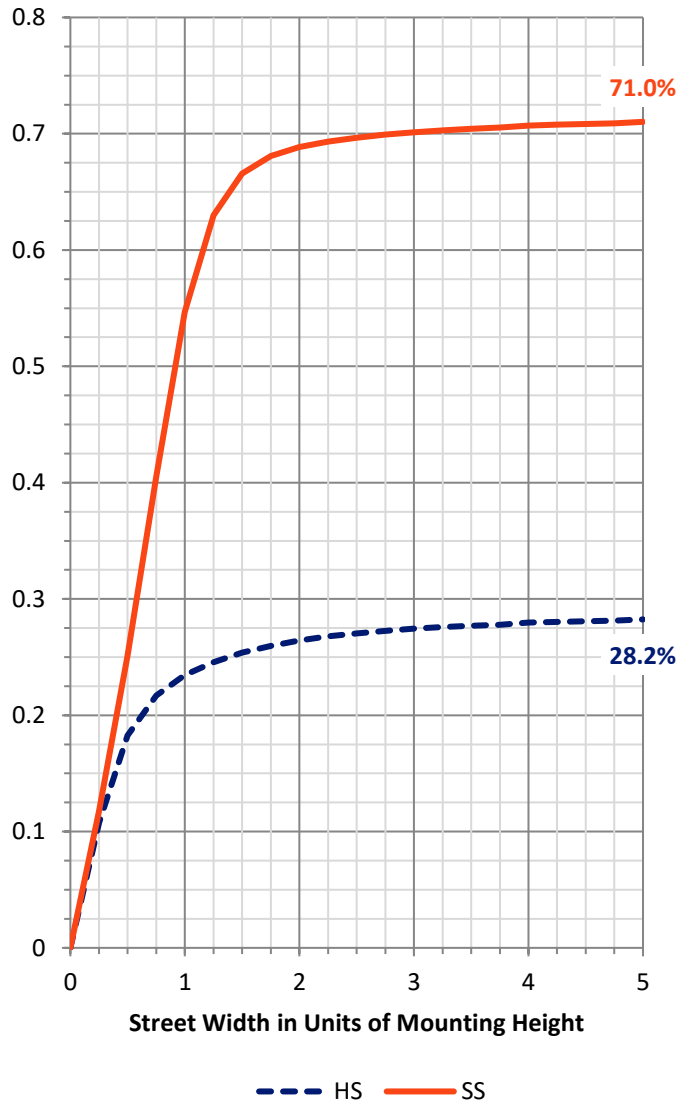
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2675.5	0.0	2675.5
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	6670.5	0.0	6670.5
	% Fixture	71.4	0.0	71.4
Total	Lumens	9346.0	0.0	9346.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	1.1
10°-20°	341.0	3.6
20°-30°	653.6	7.0
30°-40°	1135.2	12.1
40°-50°	1925.3	20.6
50°-60°	2397.4	25.7
60°-70°	1931.9	20.7
70°-80°	731.5	7.8
80°-90°	124.1	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°	9346.0	100.0
0°-180°	9346.0	100.0

Coefficient of Utilization

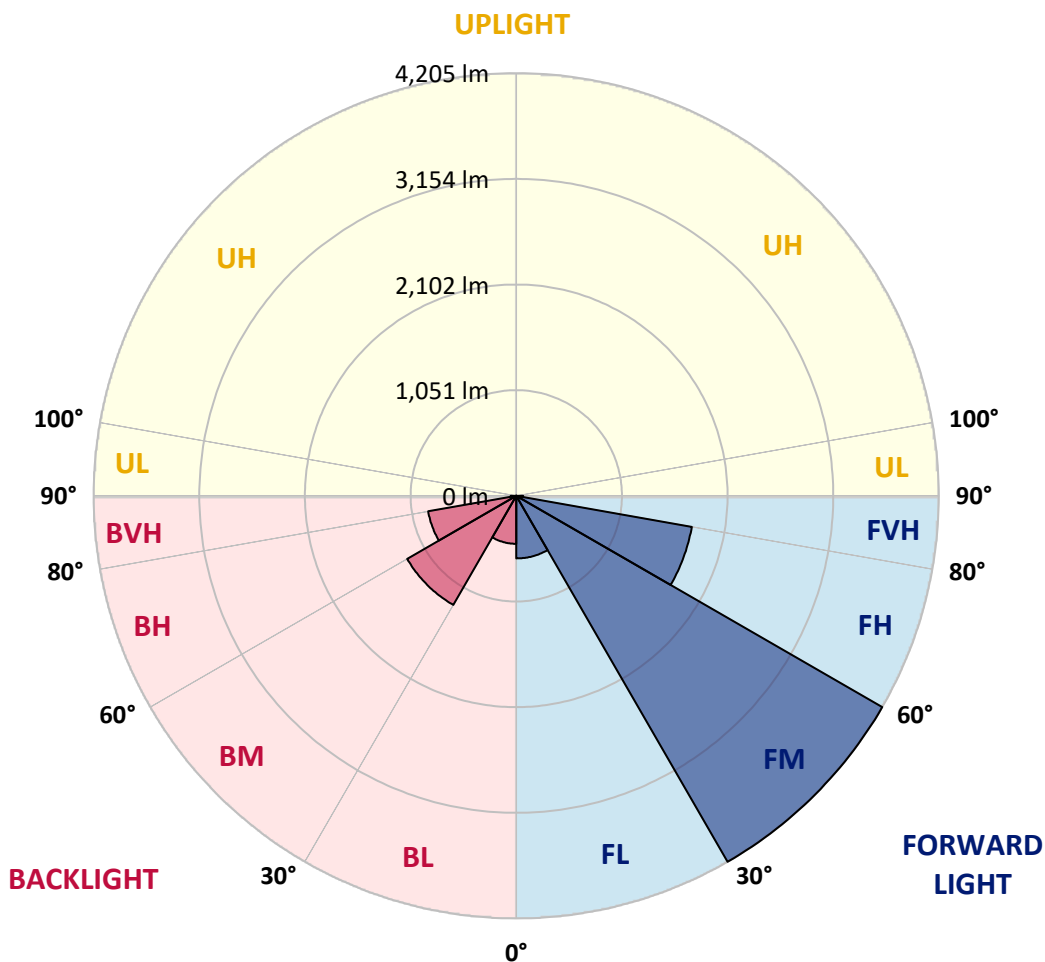


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	623.1	6.7			
FM (30°-60°)	4204.8	45.0			
FH (60°-80°)	1773.8	19.0			G1/1800
FVH (80°-90°)	68.8	0.7			G1/100
BL (0°-30°)	477.5	5.1	B1/500		
BM (30°-60°)	1253.2	13.4	B2/2500		
BH (60°-80°)	889.6	9.5	B2/1000		G2/1000
BVH (80°-90°)	55.3	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°	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6
2.5°	1070.9	1070.9	1070.9	1073.5	1076.1	1078.6	1083.8	1083.8	1083.8	1086.3	1091.4
5°	1050.4	1047.9	1050.4	1053.0	1058.1	1063.3	1073.5	1078.6	1078.6	1088.9	1099.1
7.5°	1053.0	1047.9	1047.9	1050.4	1055.6	1060.7	1070.9	1078.6	1081.2	1094.0	1111.9
10°	1078.6	1070.9	1070.9	1073.5	1073.5	1078.6	1086.3	1096.6	1099.1	1111.9	1129.9
12.5°	1132.4	1124.7	1122.2	1114.5	1106.8	1111.9	1119.6	1122.2	1124.7	1132.4	1150.4
15°	1245.2	1232.4	1211.9	1196.5	1176.0	1163.2	1160.6	1163.2	1163.2	1165.7	1176.0
17.5°	1406.6	1391.2	1360.5	1327.2	1278.5	1237.5	1224.7	1214.4	1214.4	1206.7	1206.7
20°	1603.9	1580.8	1544.9	1496.3	1424.5	1350.2	1306.7	1283.6	1275.9	1263.1	1245.2
22.5°	1831.9	1816.5	1770.4	1696.1	1588.5	1488.6	1416.8	1365.6	1365.6	1334.8	1296.4
25°	2100.9	2072.7	2018.9	1931.8	1785.8	1642.3	1544.9	1470.6	1462.9	1414.3	1352.8
27.5°	2362.2	2344.3	2277.7	2162.4	1988.2	1821.6	1685.8	1598.7	1585.9	1509.1	1414.3
30°	2679.9	2659.4	2559.5	2398.1	2211.1	2021.5	1862.6	1749.9	1737.1	1632.0	1498.8
32.5°	3074.5	3005.3	2882.3	2697.9	2457.0	2244.4	2062.5	1942.1	1926.7	1806.3	1647.4
35°	3553.6	3494.7	3282.0	3087.3	2800.3	2521.1	2303.3	2144.5	2124.0	1980.5	1780.6
37.5°	3891.8	3863.6	3717.6	3563.8	3235.9	2859.3	2592.8	2372.5	2352.0	2162.4	1903.6
40°	4104.4	4076.3	4035.3	3991.7	3809.8	3384.5	2941.3	2641.5	2608.2	2428.8	2149.6
42.5°	4214.6	4191.5	4199.2	4286.3	4337.6	4271.0	3438.3	3000.2	2977.1	2759.4	2449.3
45°	4150.6	4135.2	4209.5	4440.1	4691.2	5183.1	4076.3	3471.6	3410.1	3151.3	2813.2
47.5°	3843.1	3797.0	3971.2	4363.2	4901.2	5618.6	4844.9	4053.2	3986.6	3615.1	3182.1
50°	3210.3	3197.5	3435.7	3932.8	4819.3	5790.3	5667.3	4739.8	4691.2	4114.7	3592.0
52.5°	2621.0	2615.9	2800.3	3256.4	4296.6	5669.9	6264.3	5557.1	5411.1	4616.9	4037.8
55°	2034.3	2031.7	2195.7	2536.5	3428.1	5103.6	6546.1	6389.8	6282.2	5165.1	4496.4
57.5°	1391.2	1373.3	1585.9	1844.7	2574.9	4042.9	6361.6	7048.3	6981.6	5746.7	4983.2
60°	773.7	799.4	1035.1	1355.3	1842.1	2723.5	5593.0	7332.7	7322.4	6210.5	5380.4
62.5°	548.3	558.5	658.5	963.3	1211.9	1560.3	4314.5	7038.0	7120.0	6466.7	5605.8
65°	456.0	461.2	509.9	712.3	886.5	901.8	2690.2	6164.3	6272.0	6387.2	5654.5
67.5°	430.4	433.0	458.6	525.2	694.3	653.3	1201.6	4706.5	4934.6	5746.7	5336.8
70°	392.0	394.6	433.0	463.7	561.1	515.0	617.5	3125.7	3433.2	4542.6	4601.5
72.5°	335.6	343.3	374.1	435.6	456.0	427.9	476.5	1670.5	1975.4	3038.6	3553.6
75°	289.5	294.6	317.7	368.9	427.9	340.8	404.8	760.9	891.6	1783.2	2249.5
77.5°	233.1	235.7	269.0	302.3	358.7	276.7	315.1	456.0	479.1	871.1	1017.1
80°	176.8	176.8	199.8	240.8	266.5	266.5	230.6	317.7	330.5	415.1	402.2
82.5°	135.8	133.2	151.2	169.1	192.2	222.9	174.2	210.1	215.2	251.1	215.2
85°	89.7	89.7	99.9	115.3	128.1	123.0	135.8	123.0	128.1	156.3	117.9
87.5°	38.4	38.4	53.8	51.2	56.4	58.9	66.6	58.9	58.9	71.7	53.8
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°	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6
2.5°	1094.0	1096.6	1101.7	1104.3	1111.9	1114.5	1114.5	1119.6	1119.6	1124.7	1124.7
5°	1101.7	1109.4	1117.1	1124.7	1132.4	1135.0	1140.1	1142.7	1142.7	1147.8	1145.2
7.5°	1117.1	1124.7	1140.1	1147.8	1158.1	1163.2	1160.6	1163.2	1160.6	1163.2	1163.2
10°	1137.6	1147.8	1165.7	1176.0	1183.7	1186.2	1178.6	1170.9	1160.6	1160.6	1160.6
12.5°	1160.6	1168.3	1191.4	1199.0	1204.2	1196.5	1176.0	1160.6	1152.9	1155.5	1152.9
15°	1183.7	1191.4	1209.3	1217.0	1217.0	1193.9	1176.0	1170.9	1168.3	1170.9	1170.9
17.5°	1206.7	1214.4	1229.8	1229.8	1222.1	1204.2	1186.2	1168.3	1155.5	1147.8	1147.8
20°	1237.5	1237.5	1242.6	1242.6	1240.0	1211.9	1168.3	1124.7	1099.1	1083.8	1081.2
22.5°	1278.5	1268.2	1258.0	1258.0	1268.2	1193.9	1109.4	1042.8	1001.8	996.6	986.4
25°	1322.0	1299.0	1273.3	1291.3	1273.3	1147.8	1027.4	937.7	889.0	871.1	876.2
27.5°	1368.1	1332.3	1293.8	1345.1	1247.7	1058.1	912.1	812.2	766.1	753.2	753.2
30°	1432.2	1378.4	1322.0	1401.5	1199.0	955.7	776.3	704.6	678.9	668.7	666.1
32.5°	1555.2	1473.2	1391.2	1452.7	1145.2	822.4	684.1	640.5	609.8	599.5	607.2
35°	1665.3	1550.1	1496.3	1475.8	1060.7	714.8	627.7	589.3	563.7	550.8	550.8
37.5°	1765.3	1655.1	1614.1	1475.8	950.5	648.2	591.8	561.1	527.8	517.5	517.5
40°	1983.0	1837.0	1765.3	1455.3	814.7	614.9	573.9	538.0	509.9	499.6	497.0
42.5°	2282.8	2085.5	1921.6	1409.1	699.4	599.5	563.7	522.7	499.6	491.9	489.4
45°	2600.5	2426.3	2070.2	1327.2	625.1	584.2	561.1	517.5	489.4	481.7	479.1
47.5°	2984.8	2805.5	2241.8	1201.6	573.9	573.9	558.5	509.9	484.2	476.5	476.5
50°	3410.1	3261.5	2459.6	1058.1	535.5	566.2	553.4	509.9	481.7	474.0	471.4
52.5°	3845.7	3776.5	2687.6	917.2	497.0	556.0	550.8	509.9	476.5	468.9	468.9
55°	4399.1	4342.7	2951.5	812.2	466.3	535.5	550.8	504.7	468.9	463.7	463.7
57.5°	4942.2	4921.7	3156.5	719.9	443.2	509.9	543.2	497.0	461.2	458.6	458.6
60°	5406.0	5385.5	3243.6	604.6	420.2	484.2	527.8	484.2	448.4	450.9	450.9
62.5°	5692.9	5575.1	3179.5	499.6	397.1	461.2	509.9	468.9	435.6	443.2	440.7
65°	5744.2	5470.0	2931.0	417.6	371.5	435.6	489.4	450.9	417.6	435.6	433.0
67.5°	5367.5	4911.5	2464.7	363.8	345.9	407.4	466.3	425.3	397.1	422.7	415.1
70°	4552.8	3989.1	1824.2	322.8	320.3	374.1	435.6	394.6	368.9	381.7	371.5
72.5°	3389.6	2879.8	1181.1	292.1	292.1	335.6	392.0	356.1	330.5	333.1	322.8
75°	2113.7	1770.4	671.3	263.9	263.9	297.2	348.4	312.6	294.6	284.4	297.2
77.5°	960.8	778.9	353.6	235.7	238.3	253.6	299.8	266.5	246.0	230.6	238.3
80°	356.1	317.7	230.6	202.4	207.5	210.1	240.8	212.7	194.7	184.5	179.3
82.5°	184.5	171.7	156.3	161.4	169.1	161.4	187.0	158.8	138.4	130.7	110.2
85°	92.2	89.7	94.8	107.6	117.9	99.9	112.7	102.5	84.5	61.5	61.5
87.5°	35.9	38.4	35.9	48.7	53.8	46.1	51.2	35.9	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)