

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: P573601

Luminaire Tested: **ARCH-S-PA2-90-830-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573601
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-PA2-90-830-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 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: 10078 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

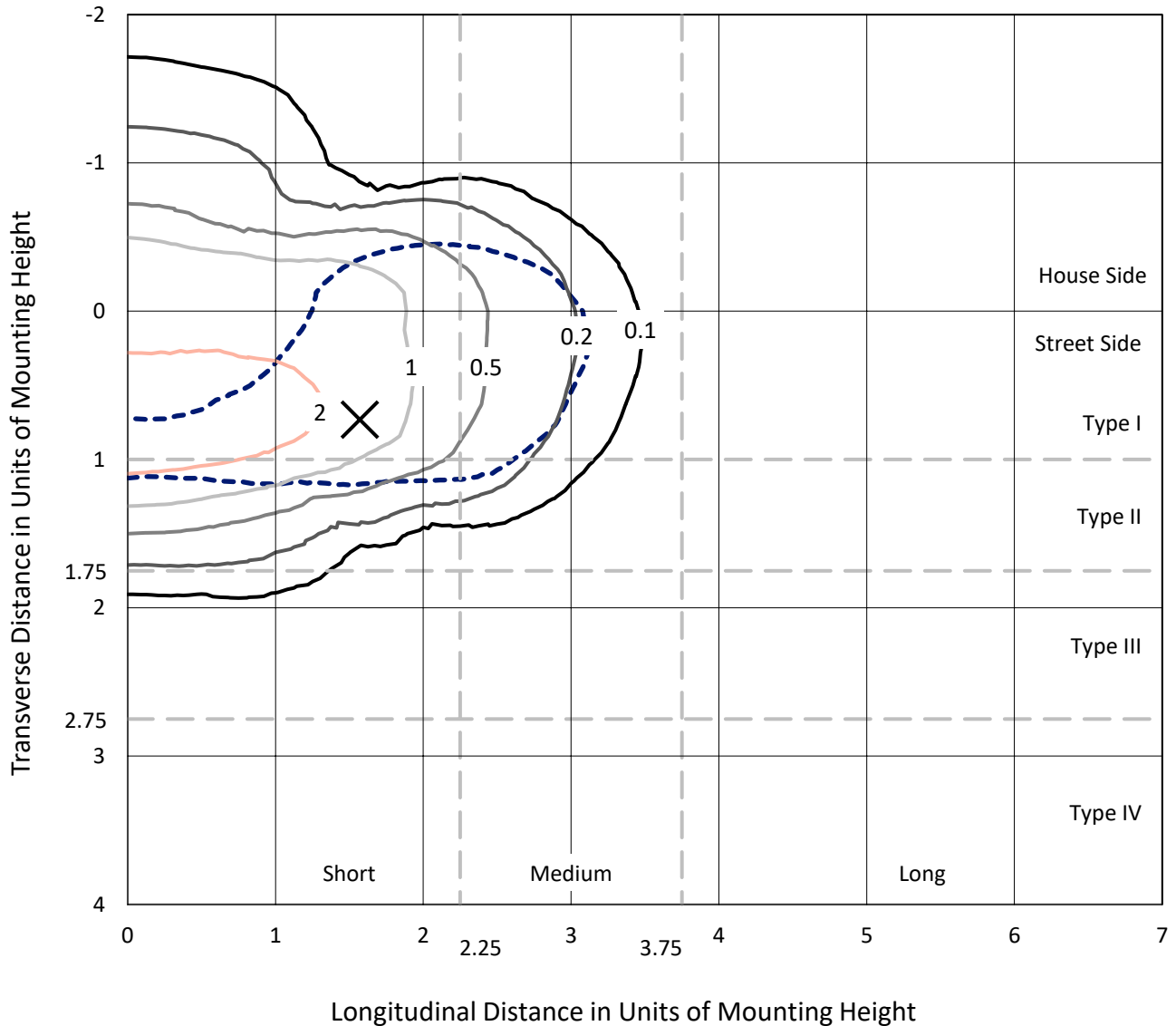
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

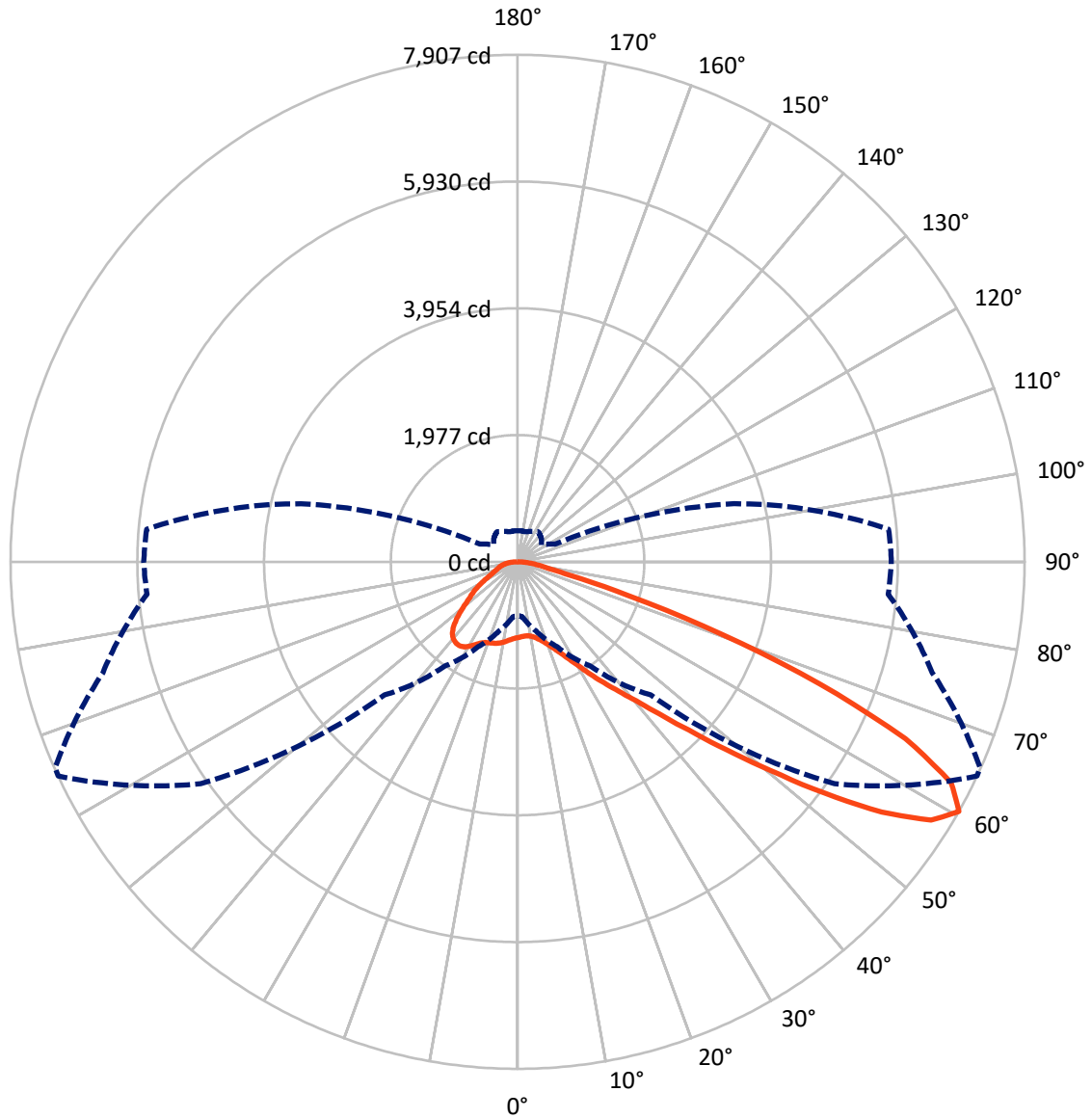
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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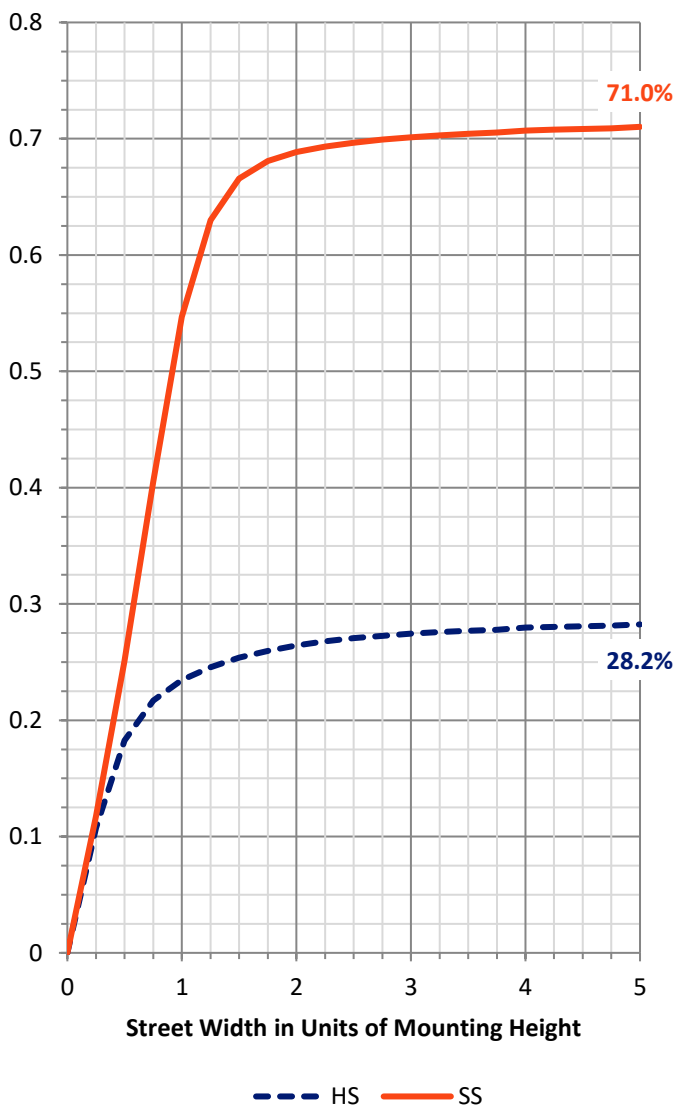
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2885.1	0.0	2885.1
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	7193.0	0.0	7193.0
	% Fixture	71.4	0.0	71.4
Total	Lumens	10078.0	0.0	10078.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	1.1
10°-20°	367.7	3.6
20°-30°	704.8	7.0
30°-40°	1224.1	12.1
40°-50°	2076.1	20.6
50°-60°	2585.2	25.7
60°-70°	2083.2	20.7
70°-80°	788.8	7.8
80°-90°	133.8	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°	10078.0	100.0
0°-180°	10078.0	100.0

Coefficient of Utilization



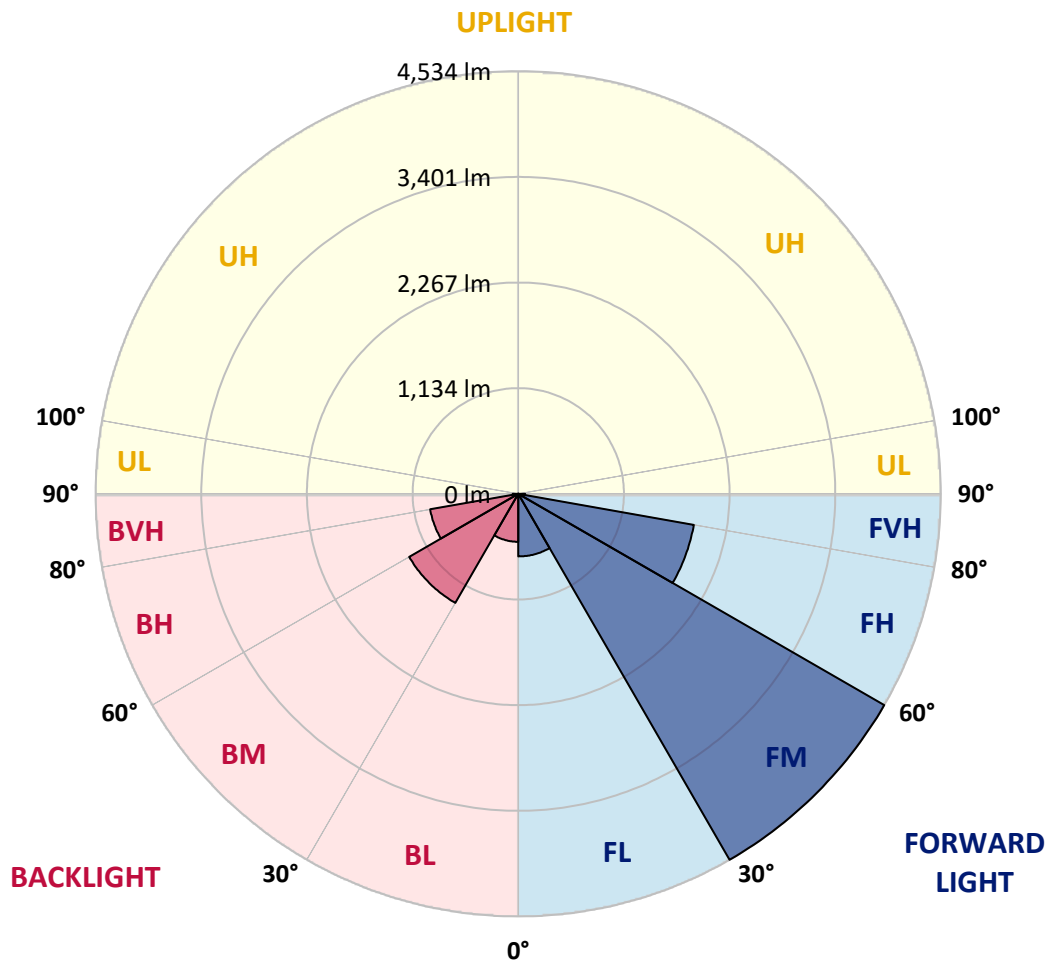
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	671.9	6.7			
FM (30°-60°)	4534.1	45.0			
FH (60°-80°)	1912.8	19.0			G2/5000
FVH (80°-90°)	74.2	0.7			G1/100
BL (0°-30°)	514.9	5.1	B2/1000		
BM (30°-60°)	1351.3	13.4	B2/2500		
BH (60°-80°)	959.3	9.5	B2/1000		G2/1000
BVH (80°-90°)	59.6	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°	1182.5	1182.5	1182.5	1182.5	1182.5	1182.5	1182.5	1182.5	1182.5	1182.5	1182.5
2.5°	1154.8	1154.8	1154.8	1157.6	1160.4	1163.1	1168.6	1168.6	1168.6	1171.4	1176.9
5°	1132.7	1130.0	1132.7	1135.5	1141.0	1146.5	1157.6	1163.1	1163.1	1174.2	1185.2
7.5°	1135.5	1130.0	1130.0	1132.7	1138.2	1143.8	1154.8	1163.1	1165.9	1179.7	1199.0
10°	1163.1	1154.8	1154.8	1157.6	1157.6	1163.1	1171.4	1182.5	1185.2	1199.0	1218.4
12.5°	1221.1	1212.8	1210.1	1201.8	1193.5	1199.0	1207.3	1210.1	1212.8	1221.1	1240.5
15°	1342.7	1328.9	1306.8	1290.2	1268.1	1254.3	1251.5	1254.3	1254.3	1257.0	1268.1
17.5°	1516.7	1500.2	1467.0	1431.1	1378.6	1334.4	1320.6	1309.5	1309.5	1301.3	1301.3
20°	1729.5	1704.6	1665.9	1613.4	1536.1	1456.0	1409.0	1384.1	1375.8	1362.0	1342.7
22.5°	1975.4	1958.8	1909.1	1828.9	1712.9	1605.2	1527.8	1472.5	1472.5	1439.4	1397.9
25°	2265.4	2235.1	2177.0	2083.1	1925.6	1770.9	1665.9	1585.8	1577.5	1525.0	1458.7
27.5°	2547.2	2527.9	2456.1	2331.8	2143.9	1964.3	1817.9	1723.9	1710.1	1627.3	1525.0
30°	2889.8	2867.7	2760.0	2585.9	2384.2	2179.8	2008.5	1887.0	1873.1	1759.9	1616.2
32.5°	3315.3	3240.7	3108.1	2909.2	2649.5	2420.2	2224.0	2094.2	2077.6	1947.7	1776.4
35°	3831.9	3768.4	3539.1	3329.1	3019.7	2718.5	2483.7	2312.4	2290.3	2135.6	1920.1
37.5°	4196.6	4166.2	4008.7	3843.0	3489.3	3083.2	2795.9	2558.3	2536.2	2331.8	2052.7
40°	4425.9	4395.5	4351.3	4304.3	4108.2	3649.6	3171.6	2848.4	2812.5	2619.1	2317.9
42.5°	4544.7	4519.8	4528.1	4622.1	4677.3	4605.5	3707.6	3235.2	3210.3	2975.5	2641.2
45°	4475.6	4459.1	4539.2	4787.8	5058.6	5589.0	4395.5	3743.5	3677.2	3398.2	3033.5
47.5°	4144.1	4094.4	4282.2	4704.9	5285.1	6058.7	5224.3	4370.7	4298.8	3898.2	3431.3
50°	3461.7	3447.9	3704.8	4240.8	5196.7	6243.8	6111.2	5111.1	5058.6	4437.0	3873.4
52.5°	2826.3	2820.8	3019.7	3511.4	4633.1	6113.9	6754.9	5992.4	5834.9	4978.5	4354.1
55°	2193.6	2190.9	2367.7	2735.1	3696.5	5503.4	7058.8	6890.3	6774.2	5569.7	4848.6
57.5°	1500.2	1480.8	1710.1	1989.2	2776.6	4359.6	6859.9	7600.3	7528.5	6196.8	5373.5
60°	834.3	862.0	1116.1	1461.5	1986.4	2936.8	6031.1	7907.0	7895.9	6696.9	5801.8
62.5°	591.2	602.3	710.0	1038.8	1306.8	1682.5	4652.5	7589.2	7677.7	6973.2	6044.9
65°	491.8	497.3	549.8	768.0	955.9	972.5	2900.9	6647.2	6763.2	6887.5	6097.4
67.5°	464.1	466.9	494.5	566.4	748.7	704.5	1295.7	5075.2	5321.0	6196.8	5754.8
70°	422.7	425.5	466.9	500.1	605.0	555.3	665.8	3370.5	3702.1	4898.3	4961.9
72.5°	361.9	370.2	403.4	469.7	491.8	461.4	513.9	1801.3	2130.1	3276.6	3831.9
75°	312.2	317.7	342.6	397.8	461.4	367.4	436.5	820.5	961.4	1922.9	2425.7
77.5°	251.4	254.2	290.1	326.0	386.8	298.4	339.8	491.8	516.6	939.3	1096.8
80°	190.6	190.6	215.5	259.7	287.3	287.3	248.6	342.6	356.4	447.6	433.8
82.5°	146.4	143.7	163.0	182.3	207.2	240.4	187.9	226.5	232.1	270.7	232.1
85°	96.7	96.7	107.7	124.3	138.1	132.6	146.4	132.6	138.1	168.5	127.1
87.5°	41.4	41.4	58.0	55.3	60.8	63.5	71.8	63.5	63.5	77.4	58.0
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°	1182.5	1182.5	1182.5	1182.5	1182.5	1182.5	1182.5	1182.5	1182.5	1182.5	1182.5
2.5°	1179.7	1182.5	1188.0	1190.7	1199.0	1201.8	1201.8	1207.3	1207.3	1212.8	1212.8
5°	1188.0	1196.3	1204.6	1212.8	1221.1	1223.9	1229.4	1232.2	1232.2	1237.7	1234.9
7.5°	1204.6	1212.8	1229.4	1237.7	1248.8	1254.3	1251.5	1254.3	1251.5	1254.3	1254.3
10°	1226.7	1237.7	1257.0	1268.1	1276.4	1279.1	1270.9	1262.6	1251.5	1251.5	1251.5
12.5°	1251.5	1259.8	1284.7	1293.0	1298.5	1290.2	1268.1	1251.5	1243.2	1246.0	1243.2
15°	1276.4	1284.7	1304.0	1312.3	1312.3	1287.4	1268.1	1262.6	1259.8	1262.6	1262.6
17.5°	1301.3	1309.5	1326.1	1326.1	1317.8	1298.5	1279.1	1259.8	1246.0	1237.7	1237.7
20°	1334.4	1334.4	1339.9	1339.9	1337.2	1306.8	1259.8	1212.8	1185.2	1168.6	1165.9
22.5°	1378.6	1367.6	1356.5	1356.5	1367.6	1287.4	1196.3	1124.4	1080.2	1074.7	1063.7
25°	1425.6	1400.7	1373.1	1392.4	1373.1	1237.7	1107.9	1011.2	958.7	939.3	944.9
27.5°	1475.3	1436.6	1395.2	1450.4	1345.5	1141.0	983.5	875.8	826.1	812.2	812.2
30°	1544.4	1486.4	1425.6	1511.2	1293.0	1030.5	837.1	759.8	732.1	721.1	718.3
32.5°	1677.0	1588.6	1500.2	1566.5	1234.9	886.8	737.7	690.7	657.5	646.5	654.8
35°	1795.8	1671.5	1613.4	1591.3	1143.8	770.8	676.9	635.4	607.8	594.0	594.0
37.5°	1903.5	1784.7	1740.5	1591.3	1025.0	699.0	638.2	605.0	569.1	558.1	558.1
40°	2138.4	1980.9	1903.5	1569.2	878.6	663.1	618.9	580.2	549.8	538.7	536.0
42.5°	2461.6	2248.9	2072.1	1519.5	754.2	646.5	607.8	563.6	538.7	530.4	527.7
45°	2804.2	2616.3	2232.3	1431.1	674.1	629.9	605.0	558.1	527.7	519.4	516.6
47.5°	3218.6	3025.2	2417.4	1295.7	618.9	618.9	602.3	549.8	522.2	513.9	513.9
50°	3677.2	3517.0	2652.2	1141.0	577.4	610.6	596.8	549.8	519.4	511.1	508.3
52.5°	4146.9	4072.3	2898.1	989.1	536.0	599.5	594.0	549.8	513.9	505.6	505.6
55°	4743.6	4682.8	3182.7	875.8	502.8	577.4	594.0	544.3	505.6	500.1	500.1
57.5°	5329.3	5307.2	3403.7	776.3	478.0	549.8	585.7	536.0	497.3	494.5	494.5
60°	5829.4	5807.3	3497.6	652.0	453.1	522.2	569.1	522.2	483.5	486.2	486.2
62.5°	6138.8	6011.7	3428.6	538.7	428.2	497.3	549.8	505.6	469.7	478.0	475.2
65°	6194.1	5898.4	3160.6	450.3	400.6	469.7	527.7	486.2	450.3	469.7	466.9
67.5°	5787.9	5296.2	2657.8	392.3	373.0	439.3	502.8	458.6	428.2	455.9	447.6
70°	4909.4	4301.6	1967.1	348.1	345.3	403.4	469.7	425.5	397.8	411.6	400.6
72.5°	3655.1	3105.3	1273.6	315.0	315.0	361.9	422.7	384.0	356.4	359.2	348.1
75°	2279.3	1909.1	723.8	284.6	284.6	320.5	375.7	337.1	317.7	306.7	320.5
77.5°	1036.0	839.9	381.3	254.2	256.9	273.5	323.2	287.3	265.2	248.6	256.9
80°	384.0	342.6	248.6	218.3	223.8	226.5	259.7	229.3	210.0	198.9	193.4
82.5°	198.9	185.1	168.5	174.1	182.3	174.1	201.7	171.3	149.2	140.9	118.8
85°	99.5	96.7	102.2	116.0	127.1	107.7	121.6	110.5	91.2	66.3	66.3
87.5°	38.7	41.4	38.7	52.5	58.0	49.7	55.3	38.7	27.6	13.8	11.1
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)