

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: P573538

Luminaire Tested: **ARCH-S-PA2-90-727-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573538
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-PA2-90-727-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 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: 10606 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

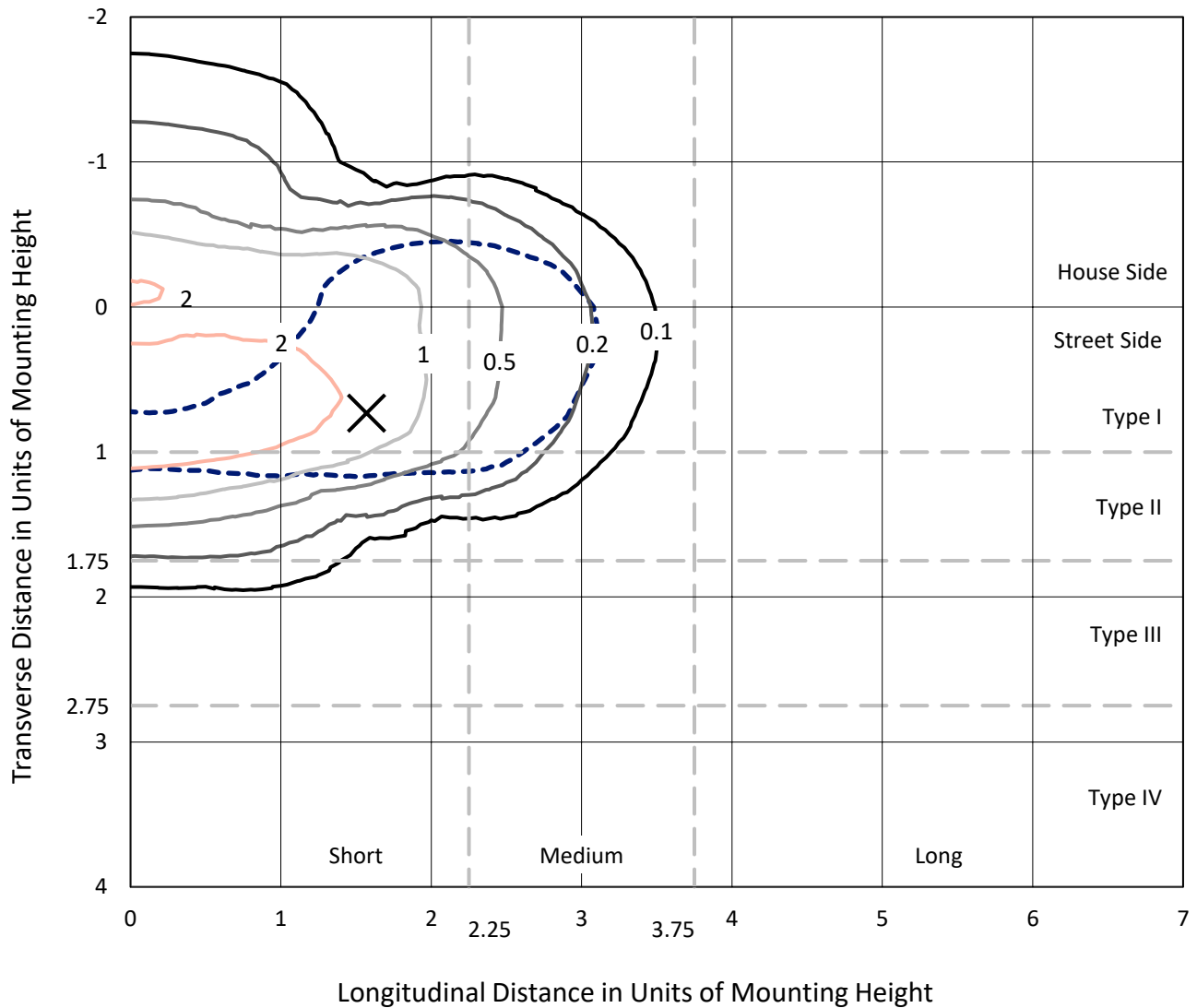
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

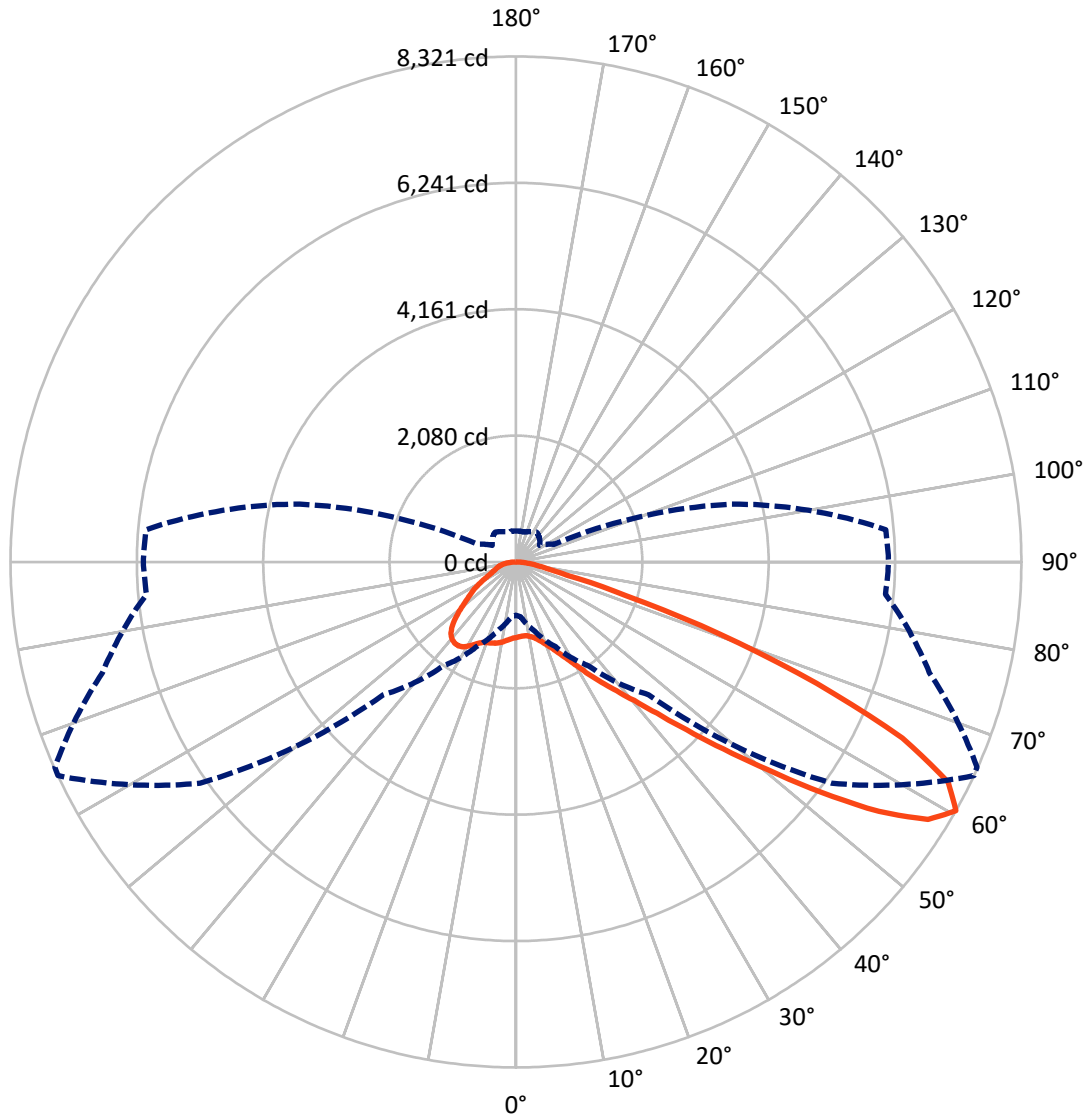
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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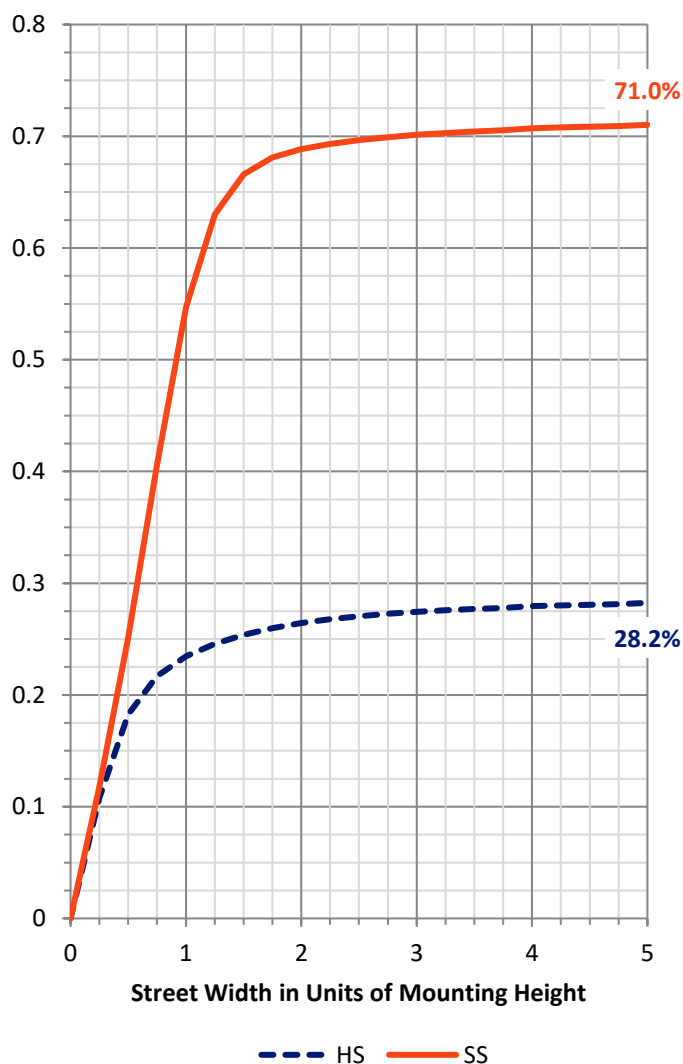
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3036.2	0.0	3036.2
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	7569.8	0.0	7569.8
	% Fixture	71.4	0.0	71.4
Total	Lumens	10606.0	0.0	10606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	1.1
10°-20°	386.9	3.6
20°-30°	741.8	7.0
30°-40°	1288.3	12.1
40°-50°	2184.9	20.6
50°-60°	2720.6	25.7
60°-70°	2192.3	20.7
70°-80°	830.2	7.8
80°-90°	140.8	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°	10606.0	100.0
0°-180°	10606.0	100.0

Coefficient of Utilization



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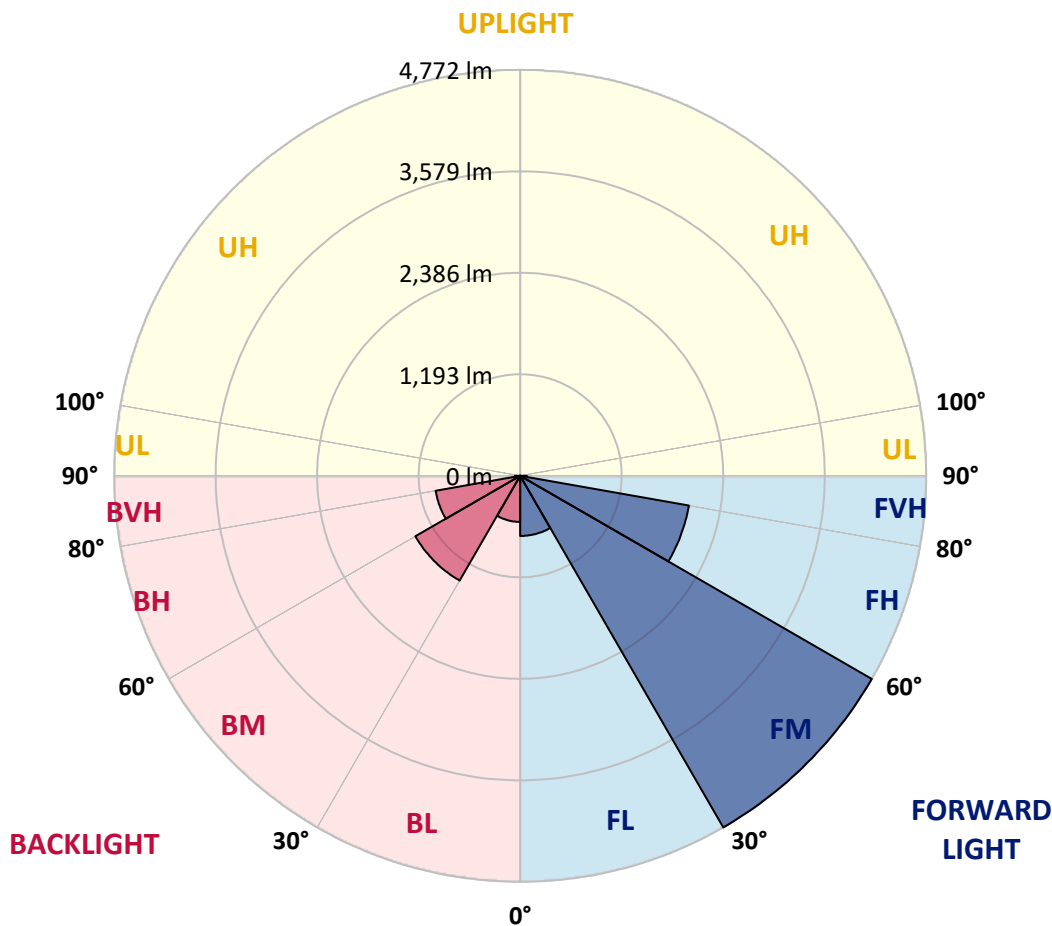
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	707.1	6.7			
FM (30°-60°)	4771.7	45.0			
FH (60°-80°)	2013.0	19.0			G2/5000
FVH (80°-90°)	78.1	0.7			G1/100
BL (0°-30°)	541.9	5.1	B2/1000		
BM (30°-60°)	1422.1	13.4	B2/2500		
BH (60°-80°)	1009.5	9.5	B3/2500		G3/2500
BVH (80°-90°)	62.7	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4
2.5°	1215.3	1215.3	1215.3	1218.2	1221.1	1224.1	1229.9	1229.9	1229.9	1232.8	1238.6
5°	1192.1	1189.2	1192.1	1195.0	1200.8	1206.6	1218.2	1224.1	1224.1	1235.7	1247.3
7.5°	1195.0	1189.2	1189.2	1192.1	1197.9	1203.7	1215.3	1224.1	1227.0	1241.5	1261.8
10°	1224.1	1215.3	1215.3	1218.2	1218.2	1224.1	1232.8	1244.4	1247.3	1261.8	1282.2
12.5°	1285.1	1276.4	1273.5	1264.8	1256.0	1261.8	1270.6	1273.5	1276.4	1285.1	1305.5
15°	1413.0	1398.5	1375.2	1357.8	1334.5	1320.0	1317.1	1320.0	1320.0	1322.9	1334.5
17.5°	1596.2	1578.8	1543.9	1506.1	1450.8	1404.3	1389.8	1378.1	1378.1	1369.4	1369.4
20°	1820.1	1793.9	1753.2	1698.0	1616.6	1532.2	1482.8	1456.6	1447.9	1433.4	1413.0
22.5°	2078.9	2061.4	2009.1	1924.8	1802.6	1689.2	1607.8	1549.7	1549.7	1514.8	1471.2
25°	2384.1	2352.2	2291.1	2192.2	2026.5	1863.7	1753.2	1668.9	1660.2	1604.9	1535.2
27.5°	2680.7	2660.3	2584.8	2453.9	2256.2	2067.2	1913.1	1814.3	1799.7	1712.5	1604.9
30°	3041.2	3018.0	2904.6	2721.4	2509.2	2294.0	2113.7	1985.8	1971.3	1852.1	1700.9
32.5°	3489.0	3410.5	3270.9	3061.6	2788.3	2547.0	2340.5	2203.9	2186.4	2049.8	1869.5
35°	4032.7	3965.8	3724.5	3503.5	3177.9	2861.0	2613.8	2433.6	2410.3	2247.5	2020.7
37.5°	4416.5	4384.5	4218.8	4044.3	3672.2	3244.8	2942.4	2692.3	2669.1	2453.9	2160.3
40°	4657.8	4625.8	4579.3	4529.9	4323.4	3840.8	3337.8	2997.6	2959.8	2756.3	2439.4
42.5°	4782.8	4756.6	4765.4	4864.2	4922.4	4846.8	3901.8	3404.7	3378.5	3131.4	2779.6
45°	4710.1	4692.7	4777.0	5038.7	5323.6	5881.8	4625.8	3939.6	3869.9	3576.2	3192.4
47.5°	4361.2	4308.9	4506.6	4951.4	5562.0	6376.1	5498.1	4599.6	4524.0	4102.5	3611.1
50°	3643.1	3628.5	3898.9	4463.0	5469.0	6570.9	6431.4	5378.8	5323.6	4669.4	4076.3
52.5°	2974.4	2968.5	3177.9	3695.4	4875.8	6434.3	7108.8	6306.3	6140.6	5239.3	4582.2
55°	2308.5	2305.6	2491.7	2878.4	3890.2	5791.7	7428.6	7251.3	7129.1	5861.5	5102.6
57.5°	1578.8	1558.4	1799.7	2093.4	2922.0	4588.0	7219.3	7998.5	7922.9	6521.5	5655.1
60°	878.1	907.1	1174.6	1538.1	2090.5	3090.7	6347.0	8321.2	8309.6	7047.7	6105.7
62.5°	622.2	633.8	747.2	1093.2	1375.2	1770.7	4896.2	7986.9	8079.9	7338.5	6361.6
65°	517.5	523.3	578.6	808.3	1006.0	1023.4	3052.9	6995.4	7117.5	7248.4	6416.8
67.5°	488.5	491.4	520.4	596.0	787.9	741.4	1363.6	5341.0	5599.8	6521.5	6056.3
70°	444.8	447.8	491.4	526.3	636.7	584.4	700.7	3547.1	3896.0	5155.0	5221.8
72.5°	380.9	389.6	424.5	494.3	517.5	485.5	540.8	1895.7	2241.7	3448.3	4032.7
75°	328.5	334.4	360.5	418.7	485.5	386.7	459.4	863.5	1011.8	2023.6	2552.8
77.5°	264.6	267.5	305.3	343.1	407.0	314.0	357.6	517.5	543.7	988.5	1154.3
80°	200.6	200.6	226.8	273.3	302.4	302.4	261.7	360.5	375.1	471.0	456.5
82.5°	154.1	151.2	171.5	191.9	218.1	253.0	197.7	238.4	244.2	284.9	244.2
85°	101.8	101.8	113.4	130.8	145.4	139.6	154.1	139.6	145.4	177.4	133.7
87.5°	43.6	43.6	61.1	58.1	64.0	66.9	75.6	66.9	66.9	81.4	61.1
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°	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4
2.5°	1241.5	1244.4	1250.2	1253.1	1261.8	1264.8	1264.8	1270.6	1270.6	1276.4	1276.4
5°	1250.2	1258.9	1267.7	1276.4	1285.1	1288.0	1293.8	1296.7	1296.7	1302.6	1299.6
7.5°	1267.7	1276.4	1293.8	1302.6	1314.2	1320.0	1317.1	1320.0	1317.1	1320.0	1320.0
10°	1290.9	1302.6	1322.9	1334.5	1343.3	1346.2	1337.4	1328.7	1317.1	1317.1	1317.1
12.5°	1317.1	1325.8	1352.0	1360.7	1366.5	1357.8	1334.5	1317.1	1308.4	1311.3	1308.4
15°	1343.3	1352.0	1372.3	1381.1	1381.1	1354.9	1334.5	1328.7	1325.8	1328.7	1328.7
17.5°	1369.4	1378.1	1395.6	1395.6	1386.9	1366.5	1346.2	1325.8	1311.3	1302.6	1302.6
20°	1404.3	1404.3	1410.1	1410.1	1407.2	1375.2	1325.8	1276.4	1247.3	1229.9	1227.0
22.5°	1450.8	1439.2	1427.6	1427.6	1439.2	1354.9	1258.9	1183.3	1136.8	1131.0	1119.4
25°	1500.3	1474.1	1445.0	1465.4	1445.0	1302.6	1165.9	1064.1	1008.9	988.5	994.4
27.5°	1552.6	1511.9	1468.3	1526.4	1415.9	1200.8	1035.1	921.7	869.3	854.8	854.8
30°	1625.3	1564.2	1500.3	1590.4	1360.7	1084.5	881.0	799.6	770.5	758.9	755.9
32.5°	1764.8	1671.8	1578.8	1648.5	1299.6	933.3	776.3	726.9	692.0	680.4	689.1
35°	1889.9	1759.0	1698.0	1674.7	1203.7	811.2	712.3	668.7	639.6	625.1	625.1
37.5°	2003.3	1878.2	1831.7	1674.7	1078.7	735.6	671.6	636.7	598.9	587.3	587.3
40°	2250.4	2084.7	2003.3	1651.5	924.6	697.8	651.3	610.6	578.6	567.0	564.1
42.5°	2590.6	2366.7	2180.6	1599.1	793.7	680.4	639.6	593.1	567.0	558.2	555.3
45°	2951.1	2753.4	2349.2	1506.1	709.4	662.9	636.7	587.3	555.3	546.6	543.7
47.5°	3387.2	3183.7	2544.0	1363.6	651.3	651.3	633.8	578.6	549.5	540.8	540.8
50°	3869.9	3701.2	2791.2	1200.8	607.7	642.6	628.0	578.6	546.6	537.9	535.0
52.5°	4364.1	4285.6	3049.9	1040.9	564.1	630.9	625.1	578.6	540.8	532.1	532.1
55°	4992.1	4928.2	3349.4	921.7	529.2	607.7	625.1	572.8	532.1	526.3	526.3
57.5°	5608.5	5585.3	3582.0	817.0	503.0	578.6	616.4	564.1	523.3	520.4	520.4
60°	6134.8	6111.5	3680.9	686.2	476.8	549.5	598.9	549.5	508.8	511.7	511.7
62.5°	6460.4	6326.7	3608.2	567.0	450.7	523.3	578.6	532.1	494.3	503.0	500.1
65°	6518.6	6207.5	3326.2	473.9	421.6	494.3	555.3	511.7	473.9	494.3	491.4
67.5°	6091.2	5573.6	2797.0	412.9	392.5	462.3	529.2	482.6	450.7	479.7	471.0
70°	5166.6	4527.0	2070.1	366.3	363.4	424.5	494.3	447.8	418.7	433.2	421.6
72.5°	3846.6	3268.0	1340.3	331.5	331.5	380.9	444.8	404.1	375.1	378.0	366.3
75°	2398.7	2009.1	761.8	299.5	299.5	337.3	395.4	354.7	334.4	322.7	337.3
77.5°	1090.3	883.9	401.2	267.5	270.4	287.8	340.2	302.4	279.1	261.7	270.4
80°	404.1	360.5	261.7	229.7	235.5	238.4	273.3	241.3	221.0	209.3	203.5
82.5°	209.3	194.8	177.4	183.2	191.9	183.2	212.2	180.3	157.0	148.3	125.0
85°	104.7	101.8	107.6	122.1	133.7	113.4	127.9	116.3	95.9	69.8	69.8
87.5°	40.7	43.6	40.7	55.2	61.1	52.3	58.1	40.7	29.1	14.5	11.6
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)