

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: P573459

Luminaire Tested: **ARCH-S-PA2-80-727-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-80-727-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 820mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9896 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

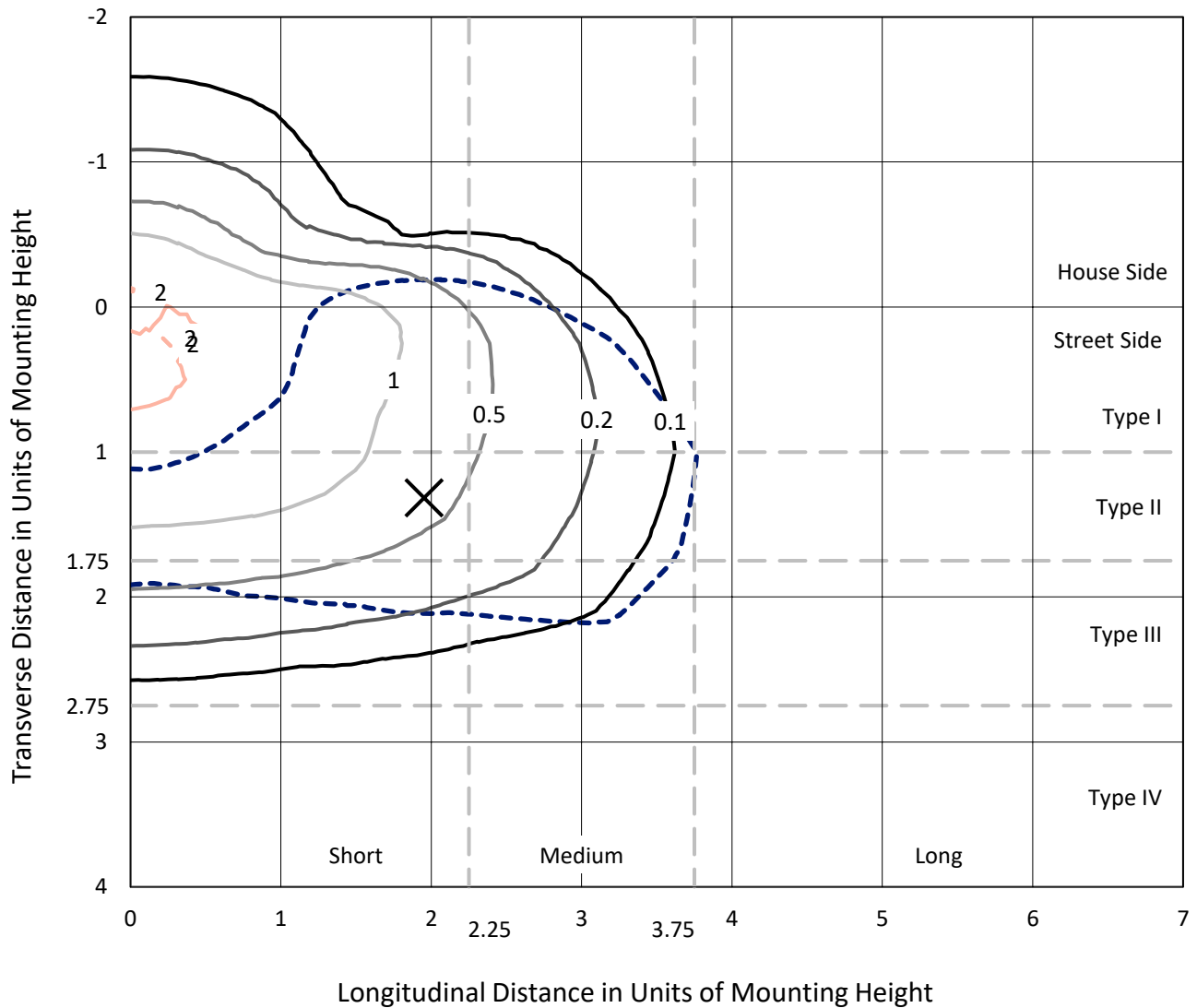
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P573459
 CATALOG NUMBER: ARCH-S-PA2-80-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

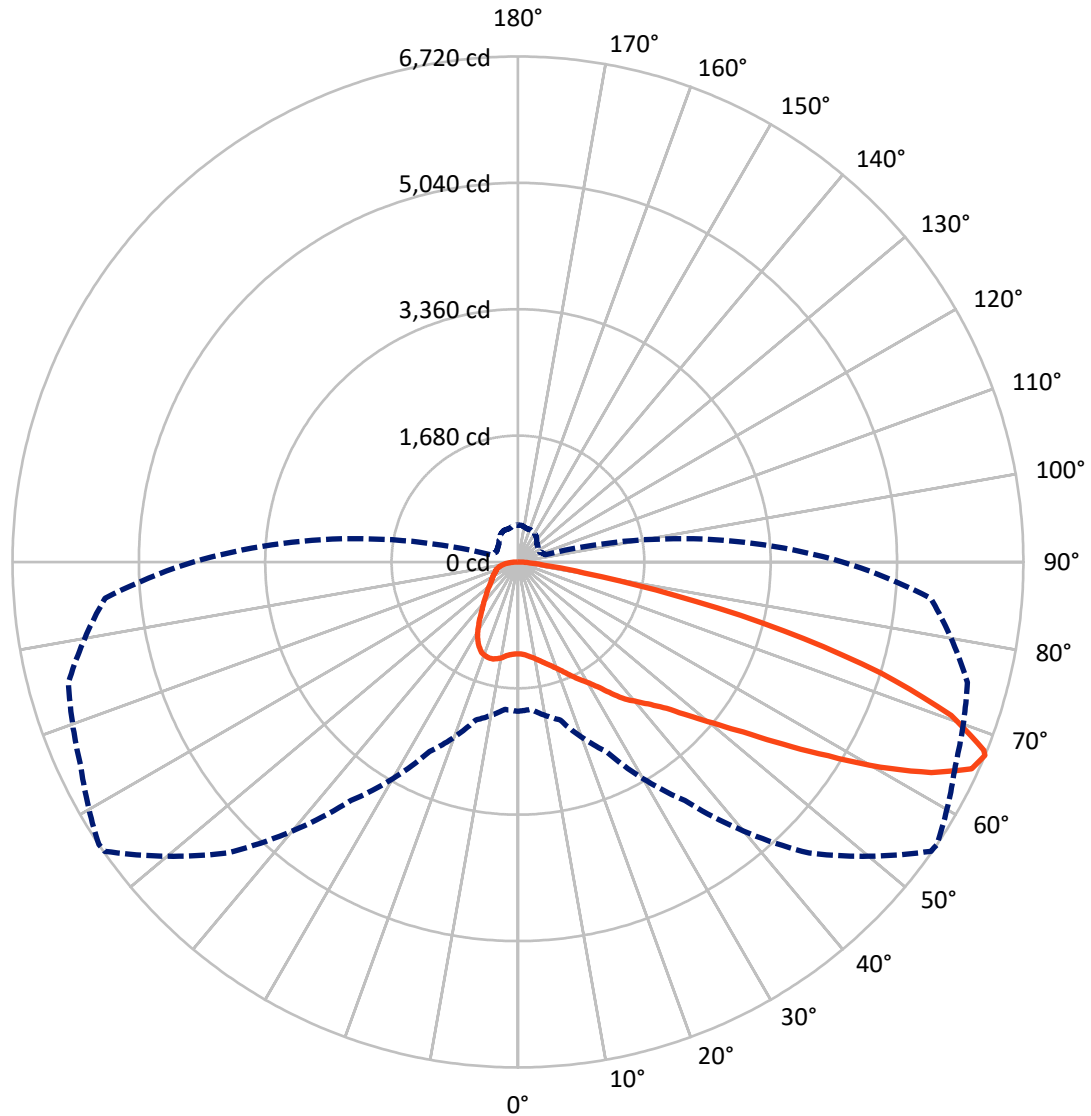
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

REPORT NUMBER: P573459
CATALOG NUMBER: ARCH-S-PA2-80-727-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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 CATALOG NUMBER: ARCH-S-PA2-80-727-U-T3

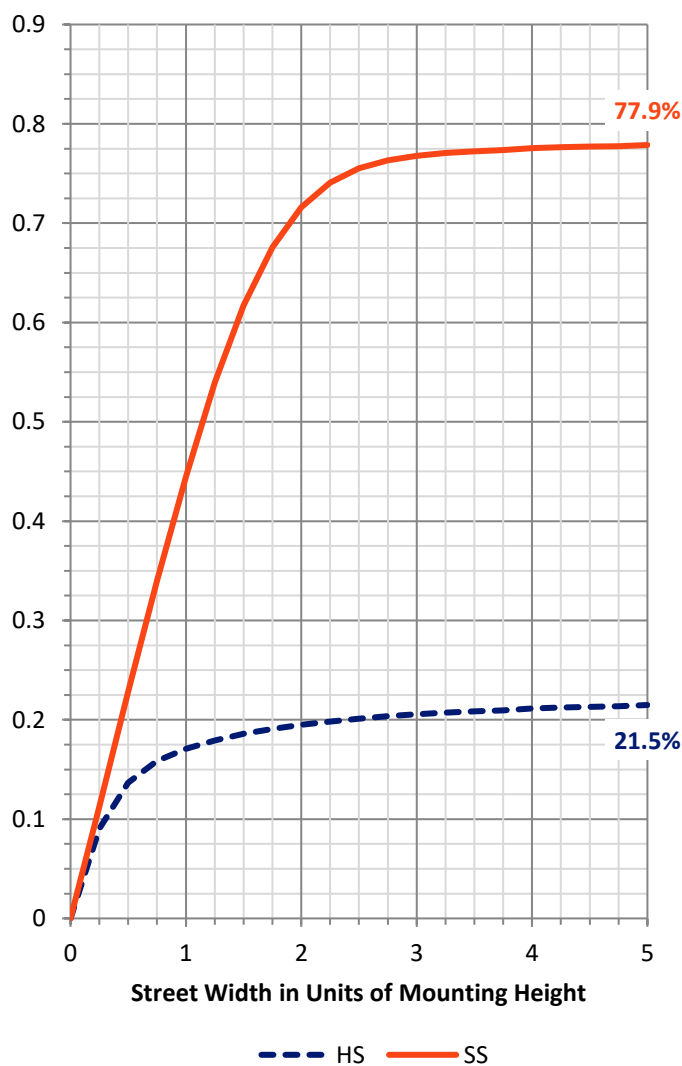
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2165.0	0.0	2165.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	7730.9	0.0	7730.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	9896.0	0.0	9896.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	1.2
10°-20°	385.5	3.9
20°-30°	670.9	6.8
30°-40°	983.7	9.9
40°-50°	1439.3	14.5
50°-60°	2249.3	22.7
60°-70°	2673.5	27.0
70°-80°	1217.6	12.3
80°-90°	156.1	1.6
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°	9896.0	100.0
0°-180°	9896.0	100.0

Coefficient of Utilization



REPORT NUMBER: P573459

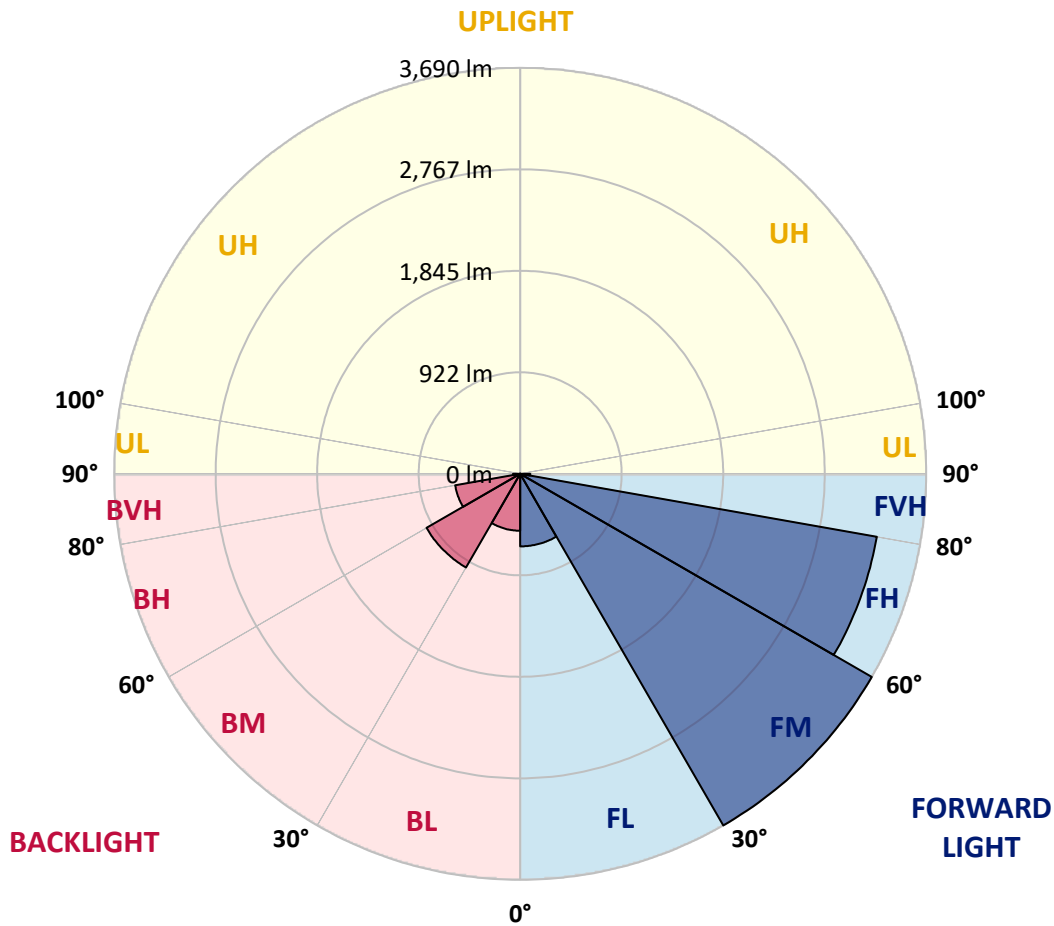
CATALOG NUMBER: ARCH-S-PA2-80-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	659.1	6.7			
FM (30°-60°)	3689.5	37.3			
FH (60°-80°)	3291.3	33.3			G2/5000
FVH (80°-90°)	91.0	0.9			G1/100
BL (0°-30°)	517.4	5.2	B2/1000		
BM (30°-60°)	982.8	9.9	B1/1000		
BH (60°-80°)	599.8	6.1	B2/1000		G2/1000
BVH (80°-90°)	65.1	0.7			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 III Short





REPORT NUMBER: P573459

CATALOG NUMBER: ARCH-S-PA2-80-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8
2.5°	1240.5	1235.2	1232.5	1235.2	1232.5	1227.1	1229.8	1227.1	1224.4	1221.8	1221.8
5°	1256.6	1251.2	1248.6	1251.2	1253.9	1248.6	1248.6	1248.6	1240.5	1237.8	1232.5
7.5°	1267.3	1259.3	1259.3	1264.6	1270.0	1272.7	1278.0	1275.4	1267.3	1262.0	1251.2
10°	1302.1	1291.4	1291.4	1291.4	1296.8	1302.1	1307.5	1310.2	1307.5	1304.8	1296.8
12.5°	1355.7	1345.0	1345.0	1345.0	1345.0	1342.3	1350.4	1353.1	1358.4	1358.4	1345.0
15°	1428.1	1414.7	1409.3	1398.6	1395.9	1390.6	1401.3	1401.3	1409.3	1412.0	1398.6
17.5°	1497.7	1481.7	1476.3	1465.6	1454.9	1441.5	1452.2	1454.9	1470.9	1473.6	1452.2
20°	1570.1	1564.7	1556.7	1540.6	1521.9	1508.5	1519.2	1516.5	1529.9	1535.2	1508.5
22.5°	1663.9	1650.5	1645.1	1623.7	1602.2	1588.8	1588.8	1594.2	1607.6	1607.6	1567.4
25°	1776.4	1757.6	1744.2	1720.1	1693.3	1677.3	1679.9	1685.3	1704.0	1690.6	1629.0
27.5°	1915.7	1897.0	1878.2	1830.0	1803.2	1771.0	1768.3	1773.7	1803.2	1768.3	1688.0
30°	2047.0	2039.0	2022.9	1985.4	1942.5	1888.9	1864.8	1867.5	1888.9	1840.7	1738.9
32.5°	2159.5	2148.8	2140.8	2114.0	2084.5	2020.2	1988.1	1990.7	1988.1	1929.1	1800.5
35°	2293.5	2277.4	2272.1	2247.9	2210.4	2167.6	2154.2	2148.8	2132.7	2052.4	1880.9
37.5°	2422.1	2406.0	2398.0	2384.6	2355.1	2317.6	2317.6	2314.9	2282.8	2170.2	1961.3
40°	2574.8	2556.1	2532.0	2523.9	2499.8	2473.0	2451.6	2438.2	2381.9	2280.1	2116.7
42.5°	2759.7	2749.0	2735.6	2700.8	2663.2	2657.9	2596.3	2590.9	2550.7	2491.8	2336.4
45°	3024.9	3003.5	2984.8	2974.0	2928.5	2880.3	2794.5	2773.1	2773.1	2759.7	2593.6
47.5°	3292.9	3255.4	3282.2	3274.1	3263.4	3209.8	3043.7	3046.4	3041.0	3075.9	2971.4
50°	3472.4	3451.0	3526.0	3560.8	3635.8	3635.8	3397.4	3367.9	3389.3	3491.1	3357.2
52.5°	3611.7	3598.3	3684.1	3820.7	4043.1	4064.5	3818.0	3756.4	3785.9	3930.6	3877.0
55°	3724.2	3710.9	3810.0	4048.4	4404.8	4536.1	4303.0	4276.2	4217.2	4372.6	4388.7
57.5°	3791.2	3761.8	3911.8	4230.6	4699.5	5002.3	4871.0	4863.0	4726.3	4871.0	4943.3
60°	3689.4	3670.7	3877.0	4305.7	4938.0	5441.7	5538.1	5538.1	5294.3	5372.0	5460.4
62.5°	3359.9	3335.7	3552.8	4131.5	4967.5	5800.7	6199.9	6167.8	5840.9	5838.2	5760.5
65°	2732.9	2703.4	2947.2	3558.1	4595.0	5843.6	6647.4	6628.6	6250.8	6143.7	5779.3
67°	1985.4	1966.6	2175.6	2781.1	3871.6	5471.2	6703.6	6719.7	6414.3	6186.5	5508.7
67.5°	1781.7	1779.1	1953.2	2553.4	3659.9	5334.5	6666.1	6682.2	6411.6	6151.7	5401.5
70°	830.6	868.1	1031.5	1462.9	2467.7	4201.2	6049.9	6111.5	6068.7	5749.8	4549.5
72.5°	385.8	401.9	474.2	707.3	1326.3	2708.8	4903.1	5050.5	5238.1	4932.6	3603.7
75°	238.5	243.8	284.0	367.1	624.3	1302.1	3491.1	3651.9	3935.9	3710.9	2304.2
77.5°	187.6	190.2	217.0	262.6	364.4	560.0	1915.7	2116.7	2486.4	2194.4	1160.1
80°	139.3	144.7	166.1	203.6	257.2	286.7	814.5	889.5	1200.3	919.0	482.3
82.5°	101.8	107.2	128.6	147.4	179.5	182.2	332.2	351.0	514.4	372.4	209.0
85°	85.7	85.7	99.1	109.9	120.6	101.8	163.4	160.8	198.3	168.8	83.1
87.5°	40.2	42.9	93.8	69.7	58.9	42.9	48.2	50.9	61.6	67.0	32.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P573459
 CATALOG NUMBER: ARCH-S-PA2-80-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8
2.5°	1219.1	1219.1	1219.1	1221.8	1224.4	1224.4	1227.1	1227.1	1229.8	1232.5	1237.8
5°	1229.8	1229.8	1227.1	1229.8	1235.2	1237.8	1243.2	1248.6	1253.9	1259.3	1262.0
7.5°	1251.2	1248.6	1248.6	1248.6	1253.9	1259.3	1267.3	1272.7	1280.7	1283.4	1288.8
10°	1291.4	1286.1	1286.1	1288.8	1291.4	1283.4	1280.7	1278.0	1286.1	1291.4	1296.8
12.5°	1339.7	1334.3	1331.6	1323.6	1312.9	1296.8	1283.4	1272.7	1275.4	1280.7	1288.8
15°	1390.6	1379.8	1374.5	1355.7	1328.9	1294.1	1272.7	1259.3	1259.3	1259.3	1267.3
17.5°	1444.2	1433.4	1412.0	1377.2	1326.3	1278.0	1251.2	1227.1	1216.4	1213.7	1219.1
20°	1495.1	1479.0	1444.2	1390.6	1310.2	1245.9	1211.1	1170.9	1154.8	1144.1	1149.4
22.5°	1543.3	1521.9	1473.6	1390.6	1283.4	1197.7	1136.0	1082.4	1055.7	1050.3	1053.0
25°	1594.2	1567.4	1503.1	1374.5	1224.4	1125.3	1039.6	983.3	948.5	943.1	951.2
27.5°	1645.1	1604.9	1527.2	1331.6	1157.5	1026.2	935.1	881.5	862.7	852.0	854.7
30°	1688.0	1650.5	1551.3	1272.7	1066.4	911.0	827.9	803.8	790.4	785.0	785.0
32.5°	1744.2	1709.4	1567.4	1203.0	959.2	806.5	752.9	734.1	723.4	710.0	712.7
35°	1813.9	1781.7	1559.4	1114.6	857.4	736.8	693.9	667.1	643.0	624.3	621.6
37.5°	1907.7	1883.6	1519.2	1007.4	763.6	685.9	643.0	608.2	573.4	543.9	538.5
40°	2063.1	2006.8	1460.2	889.5	699.3	645.7	594.8	551.9	509.1	476.9	468.9
42.5°	2261.3	2143.5	1379.8	769.0	645.7	602.8	551.9	495.7	455.5	426.0	426.0
45°	2491.8	2290.8	1283.4	677.9	589.4	560.0	498.4	450.1	426.0	407.3	404.6
47.5°	2765.1	2438.2	1160.1	605.5	543.9	522.5	460.8	431.4	415.3	399.2	396.5
50°	3132.1	2636.4	1069.0	543.9	498.4	479.6	450.1	426.0	409.9	399.2	396.5
52.5°	3552.8	2891.0	1004.7	495.7	460.8	452.8	447.4	428.7	412.6	404.6	401.9
55°	4008.3	3204.5	943.1	455.5	431.4	442.1	452.8	434.0	423.3	412.6	407.3
57.5°	4436.9	3469.7	844.0	420.7	409.9	428.7	450.1	436.7	423.3	415.3	412.6
60°	4729.0	3603.7	707.3	388.5	388.5	409.9	442.1	423.3	409.9	412.6	412.6
62.5°	4822.8	3552.8	560.0	359.0	367.1	388.5	418.0	407.3	401.9	415.3	415.3
65°	4683.4	3346.5	447.4	334.9	345.6	361.7	404.6	415.3	431.4	460.8	463.5
67°	4319.1	3014.2	377.8	316.2	326.9	353.7	420.7	458.2	458.2	490.3	490.3
67.5°	4211.9	2901.7	367.1	310.8	324.2	353.7	428.7	468.9	458.2	495.7	495.7
70°	3424.2	2282.8	310.8	294.7	313.5	372.4	463.5	471.6	447.4	482.3	479.6
72.5°	2540.0	1650.5	284.0	278.6	292.0	351.0	460.8	452.8	418.0	428.7	420.7
75°	1570.1	956.5	262.6	257.2	265.3	310.8	426.0	412.6	372.4	364.4	356.3
77.5°	758.2	485.0	225.1	233.1	241.1	270.6	375.1	361.7	326.9	308.1	305.4
80°	329.6	249.2	192.9	206.3	209.0	230.4	310.8	294.7	262.6	233.1	233.1
82.5°	163.4	139.3	152.7	171.5	166.1	184.9	243.8	217.0	192.9	160.8	155.4
85°	75.0	80.4	112.5	128.6	112.5	115.2	166.1	152.7	120.6	91.1	93.8
87.5°	26.8	37.5	64.3	77.7	56.3	53.6	88.4	64.3	37.5	10.7	13.4
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)