

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: P573551

Luminaire Tested: **ARCH-S-PA2-90-730-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-19)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-90-730-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11651 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

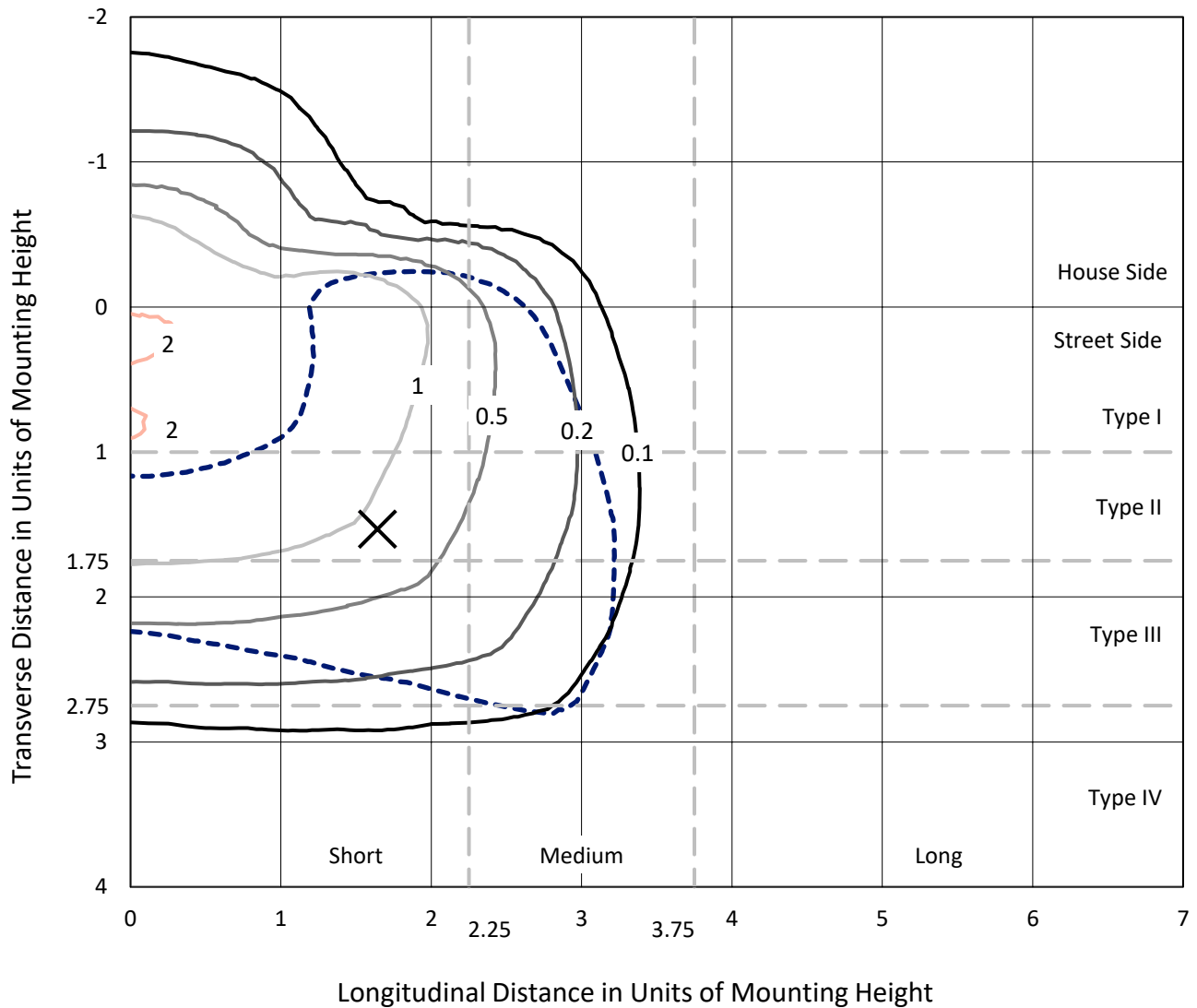
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

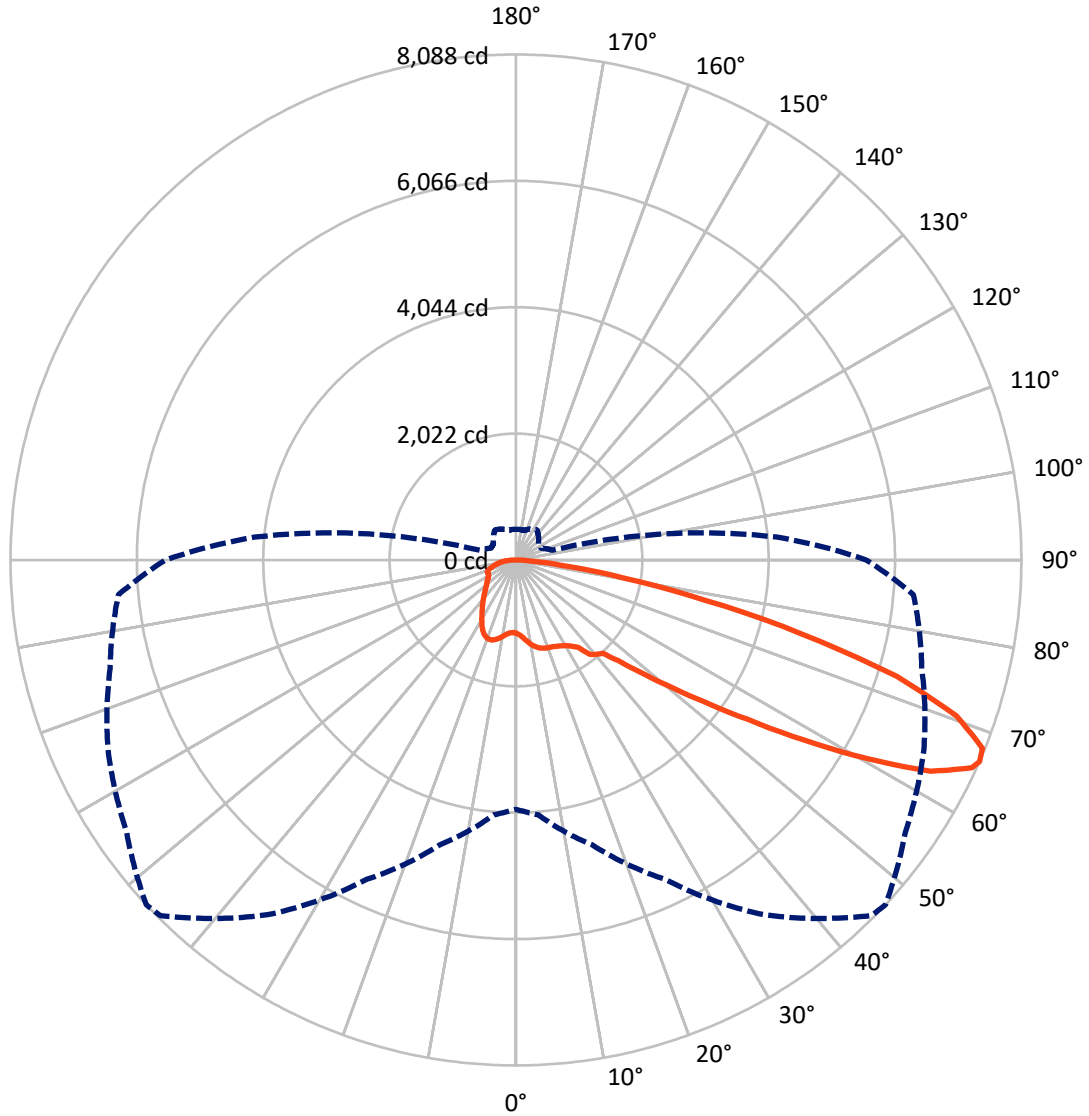
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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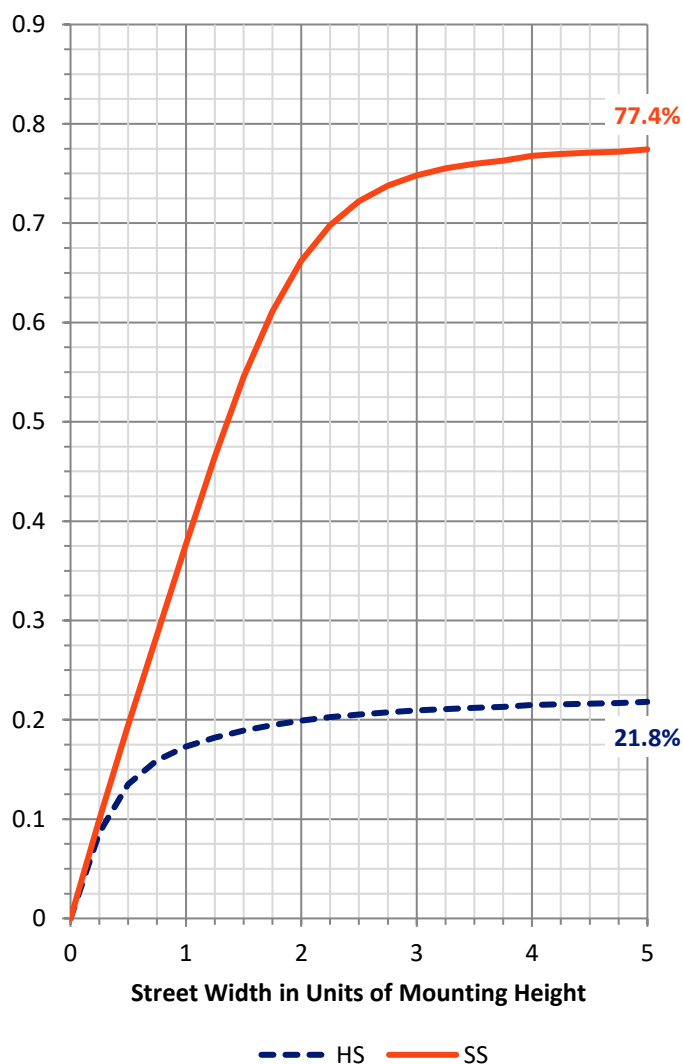
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2590.4	0.0	2590.4
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	9060.6	0.0	9060.6
	% Fixture	77.8	0.0	77.8
Total	Lumens	11651.0	0.0	11651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	1.0
10°-20°	391.1	3.4
20°-30°	652.2	5.6
30°-40°	947.1	8.1
40°-50°	1448.5	12.4
50°-60°	2738.0	23.5
60°-70°	3537.9	30.4
70°-80°	1590.3	13.6
80°-90°	226.8	1.9
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°	11651.0	100.0
0°-180°	11651.0	100.0

Coefficient of Utilization



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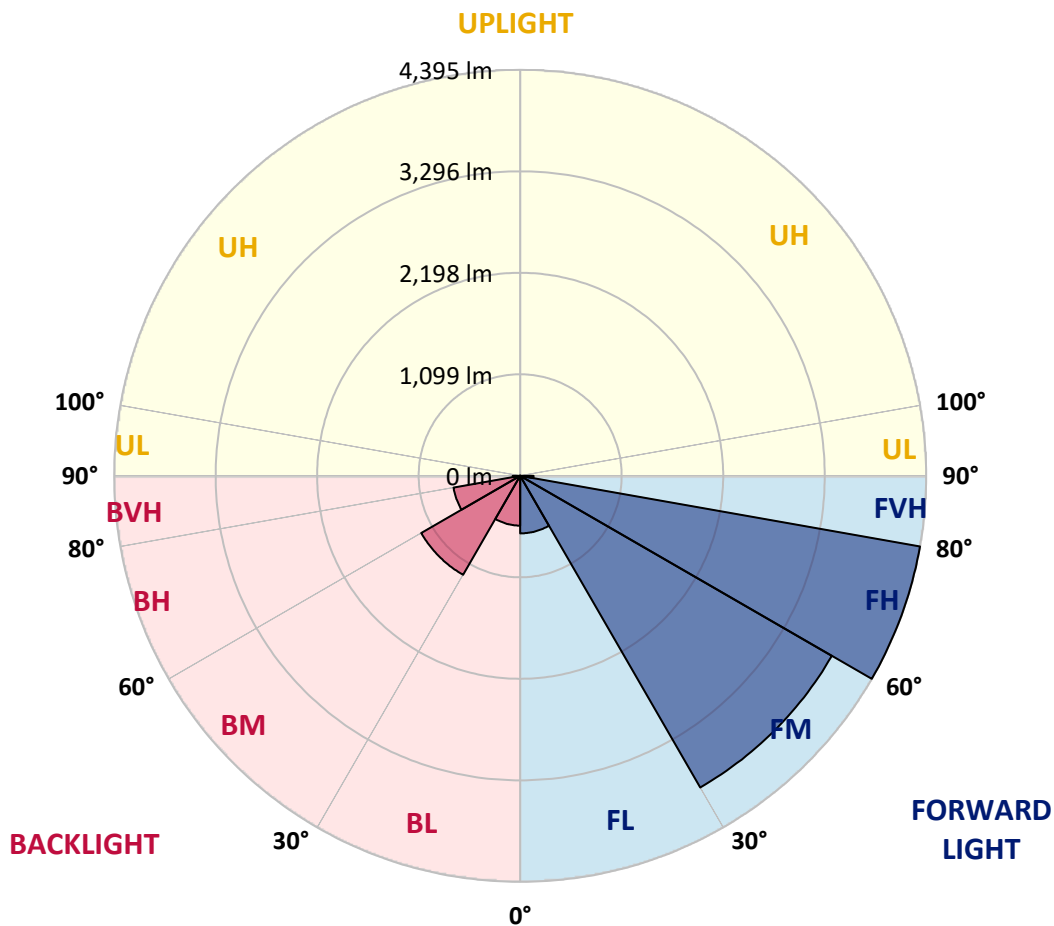
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	623.4	5.4			
FM (30°-60°)	3896.3	33.4			
FH (60°-80°)	4395.2	37.7			G2/5000
FVH (80°-90°)	145.7	1.3			G2/225
BL (0°-30°)	539.1	4.6	B2/1000		
BM (30°-60°)	1237.3	10.6	B2/2500		
BH (60°-80°)	732.9	6.3	B2/1000		G2/1000
BVH (80°-90°)	81.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3
2.5°	1237.8	1228.3	1221.9	1218.8	1212.4	1199.8	1199.8	1196.6	1183.9	1177.6	1174.4
5°	1335.9	1329.6	1313.7	1301.1	1282.1	1256.8	1253.6	1234.6	1209.3	1190.3	1177.6
7.5°	1430.9	1424.5	1408.7	1389.7	1358.1	1326.4	1316.9	1291.6	1250.4	1221.9	1199.8
10°	1513.2	1503.7	1484.7	1459.4	1424.5	1389.7	1380.2	1351.7	1310.6	1269.4	1231.4
12.5°	1567.0	1560.7	1538.5	1506.8	1468.8	1434.0	1427.7	1402.4	1361.2	1316.9	1269.4
15°	1592.3	1589.1	1563.8	1532.2	1494.2	1465.7	1462.5	1440.4	1405.5	1361.2	1307.4
17.5°	1586.0	1582.8	1560.7	1529.0	1500.5	1484.7	1484.7	1468.8	1440.4	1402.4	1345.4
20°	1554.3	1554.3	1535.3	1513.2	1497.3	1494.2	1494.2	1491.0	1472.0	1440.4	1383.4
22.5°	1522.7	1522.7	1510.0	1494.2	1491.0	1503.7	1506.8	1513.2	1506.8	1481.5	1430.9
25°	1529.0	1525.8	1510.0	1491.0	1494.2	1522.7	1529.0	1544.8	1541.7	1522.7	1478.3
27.5°	1598.6	1595.5	1554.3	1516.3	1513.2	1548.0	1554.3	1576.5	1576.5	1560.7	1532.2
30°	1772.7	1779.1	1703.1	1608.1	1560.7	1582.8	1589.1	1614.5	1627.1	1633.5	1611.3
32.5°	2038.7	2029.2	1915.2	1760.1	1655.6	1633.5	1643.0	1665.1	1709.4	1722.1	1668.3
35°	2307.7	2314.1	2203.3	2007.0	1807.6	1725.3	1718.9	1750.6	1817.1	1760.1	1665.1
37.5°	2557.8	2548.3	2418.5	2206.4	2007.0	1912.0	1915.2	1902.5	1845.6	1731.6	1687.3
40°	2830.1	2804.7	2697.1	2424.9	2171.6	2013.3	1984.8	1877.2	1829.7	1782.2	1775.9
42.5°	3099.1	3102.3	3013.7	2744.6	2367.9	2086.1	2041.8	1931.0	1962.7	1953.2	1946.9
45°	3437.9	3437.9	3349.2	3099.1	2678.1	2358.4	2298.2	2165.3	2215.9	2253.9	2329.9
47.5°	3748.1	3729.1	3703.8	3491.7	3083.3	2712.9	2687.6	2535.7	2668.6	2785.7	2940.9
50°	4077.3	4052.0	4036.2	3906.4	3615.1	3251.1	3175.1	3016.8	3308.1	3526.5	3814.6
52.5°	4590.2	4545.8	4463.5	4390.7	4276.8	3855.7	3760.8	3643.6	4020.3	4295.7	4884.6
55°	5052.3	5014.3	4935.2	4989.0	4973.2	4590.2	4507.8	4397.0	4805.4	5141.0	5815.2
57.5°	5223.3	5226.4	5334.1	5622.1	5774.1	5552.5	5435.4	5324.6	5669.6	5824.7	6432.5
60°	5302.4	5292.9	5571.5	6040.0	6533.8	6600.3	6451.5	6223.6	6353.4	6362.9	6954.9
62.5°	5131.5	5156.8	5539.8	6214.1	6989.7	7467.7	7445.5	7046.7	6926.4	6793.4	7094.2
65°	4482.5	4517.3	5080.8	5903.9	7062.5	7993.2	8015.4	7550.0	7214.5	6844.1	6698.5
66°	3988.7	4093.1	4719.9	5634.8	6929.5	8047.0	8088.2	7603.8	7201.8	6723.8	6385.1
67.5°	3346.1	3339.7	4039.3	5042.8	6559.2	7999.5	8053.3	7527.8	7030.8	6369.2	5758.3
70°	2048.2	2111.5	2712.9	3763.9	5429.0	7407.6	7480.4	6992.9	6293.3	5394.2	4257.8
72.5°	1051.0	1155.5	1551.2	2447.0	3941.2	6122.3	6369.2	5872.2	5144.1	3903.2	2599.0
75°	557.1	550.8	731.3	1326.4	2516.7	4593.3	4723.1	4403.4	3555.0	2326.7	1323.2
77.5°	297.6	313.4	383.0	680.6	1383.4	2934.5	3099.1	2839.6	2026.0	1190.3	633.1
80°	202.6	212.1	259.6	383.0	750.3	1592.3	1744.3	1513.2	1060.5	563.5	297.6
82.5°	129.8	136.1	177.3	237.4	449.5	772.4	813.6	775.6	519.2	319.7	180.4
85°	79.1	82.3	107.6	151.9	281.7	313.4	326.1	329.2	291.2	208.9	98.1
87.5°	38.0	41.2	60.1	76.0	133.0	114.0	104.5	107.6	161.4	123.5	44.3
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°	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3
2.5°	1171.3	1168.1	1161.8	1158.6	1161.8	1161.8	1161.8	1164.9	1171.3	1171.3	1174.4
5°	1171.3	1164.9	1158.6	1158.6	1164.9	1171.3	1177.6	1190.3	1196.6	1199.8	1199.8
7.5°	1187.1	1180.8	1174.4	1174.4	1183.9	1196.6	1209.3	1225.1	1240.9	1253.6	1253.6
10°	1218.8	1209.3	1202.9	1206.1	1221.9	1237.8	1253.6	1272.6	1288.4	1304.2	1304.2
12.5°	1253.6	1244.1	1234.6	1240.9	1263.1	1282.1	1297.9	1307.4	1323.2	1335.9	1335.9
15°	1288.4	1272.6	1269.4	1282.1	1304.2	1316.9	1323.2	1323.2	1329.6	1342.2	1342.2
17.5°	1326.4	1310.6	1307.4	1320.1	1339.1	1339.1	1326.4	1316.9	1313.7	1323.2	1326.4
20°	1364.4	1348.6	1348.6	1358.1	1354.9	1332.7	1310.6	1294.7	1282.1	1291.6	1294.7
22.5°	1411.9	1396.0	1389.7	1377.0	1348.6	1304.2	1269.4	1250.4	1240.9	1247.3	1253.6
25°	1459.4	1446.7	1430.9	1386.5	1320.1	1250.4	1206.1	1190.3	1193.4	1206.1	1212.4
27.5°	1519.5	1513.2	1475.2	1380.2	1269.4	1174.4	1130.1	1127.0	1139.6	1158.6	1168.1
30°	1592.3	1582.8	1516.3	1361.2	1199.8	1085.8	1054.2	1060.5	1079.5	1095.3	1104.8
32.5°	1643.0	1636.6	1535.3	1316.9	1114.3	1006.7	981.3	981.3	990.8	1013.0	1022.5
35°	1658.8	1684.1	1548.0	1250.4	1013.0	937.0	911.7	895.9	895.9	914.9	921.2
37.5°	1712.6	1769.6	1554.3	1161.8	930.7	873.7	842.1	813.6	804.1	800.9	800.9
40°	1836.1	1902.5	1551.2	1047.8	851.6	810.4	772.4	740.8	715.4	680.6	683.8
42.5°	2051.3	2102.0	1541.7	927.5	781.9	753.4	715.4	677.4	636.3	598.3	595.1
45°	2466.0	2390.0	1516.3	823.1	718.6	702.8	667.9	623.6	573.0	538.2	538.2
47.5°	3121.3	2912.4	1500.5	724.9	661.6	658.4	626.8	579.3	528.7	503.3	500.2
50°	4020.3	3634.1	1525.8	655.3	611.0	620.5	595.1	550.8	509.7	487.5	484.3
52.5°	5052.3	4409.7	1554.3	611.0	573.0	592.0	579.3	538.2	497.0	478.0	474.8
55°	5850.1	5039.7	1513.2	569.8	535.0	563.5	563.5	525.5	490.7	471.7	471.7
57.5°	6410.4	5292.9	1370.7	531.8	503.3	538.2	547.7	519.2	487.5	481.2	481.2
60°	6651.0	5280.3	1120.6	497.0	481.2	512.8	538.2	512.8	493.8	509.7	512.8
62.5°	6521.2	5004.8	870.5	471.7	465.3	506.5	547.7	538.2	516.0	528.7	535.0
65°	5935.5	4520.5	655.3	449.5	446.4	509.7	573.0	554.0	500.2	503.3	506.5
66°	5606.3	4194.4	601.5	443.2	440.0	512.8	585.6	547.7	487.5	493.8	490.7
67.5°	4903.5	3681.6	528.7	430.5	427.4	512.8	601.5	535.0	471.7	481.2	471.7
70°	3596.1	2605.3	452.7	414.7	408.4	503.3	598.3	509.7	436.9	430.5	414.7
72.5°	2086.1	1576.5	402.0	395.7	379.9	443.2	560.3	468.5	398.9	379.9	364.0
75°	1025.7	800.9	357.7	373.5	332.4	389.4	506.5	433.7	367.2	341.9	332.4
77.5°	471.7	405.2	322.9	341.9	294.4	335.6	462.2	395.7	326.1	288.1	278.6
80°	256.4	253.2	272.2	284.9	246.9	294.4	408.4	345.1	275.4	234.3	221.6
82.5°	158.3	161.4	199.4	218.4	193.1	256.4	360.9	288.1	208.9	164.6	167.8
85°	82.3	91.8	133.0	145.6	126.6	189.9	272.2	193.1	117.1	85.5	85.5
87.5°	28.5	38.0	66.5	79.1	69.6	114.0	170.9	91.8	25.3	0.0	0.0
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)