

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: P573376

Luminaire Tested: **ARCH-S-PA2-70-727-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573376
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-PA2-70-727-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8845 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

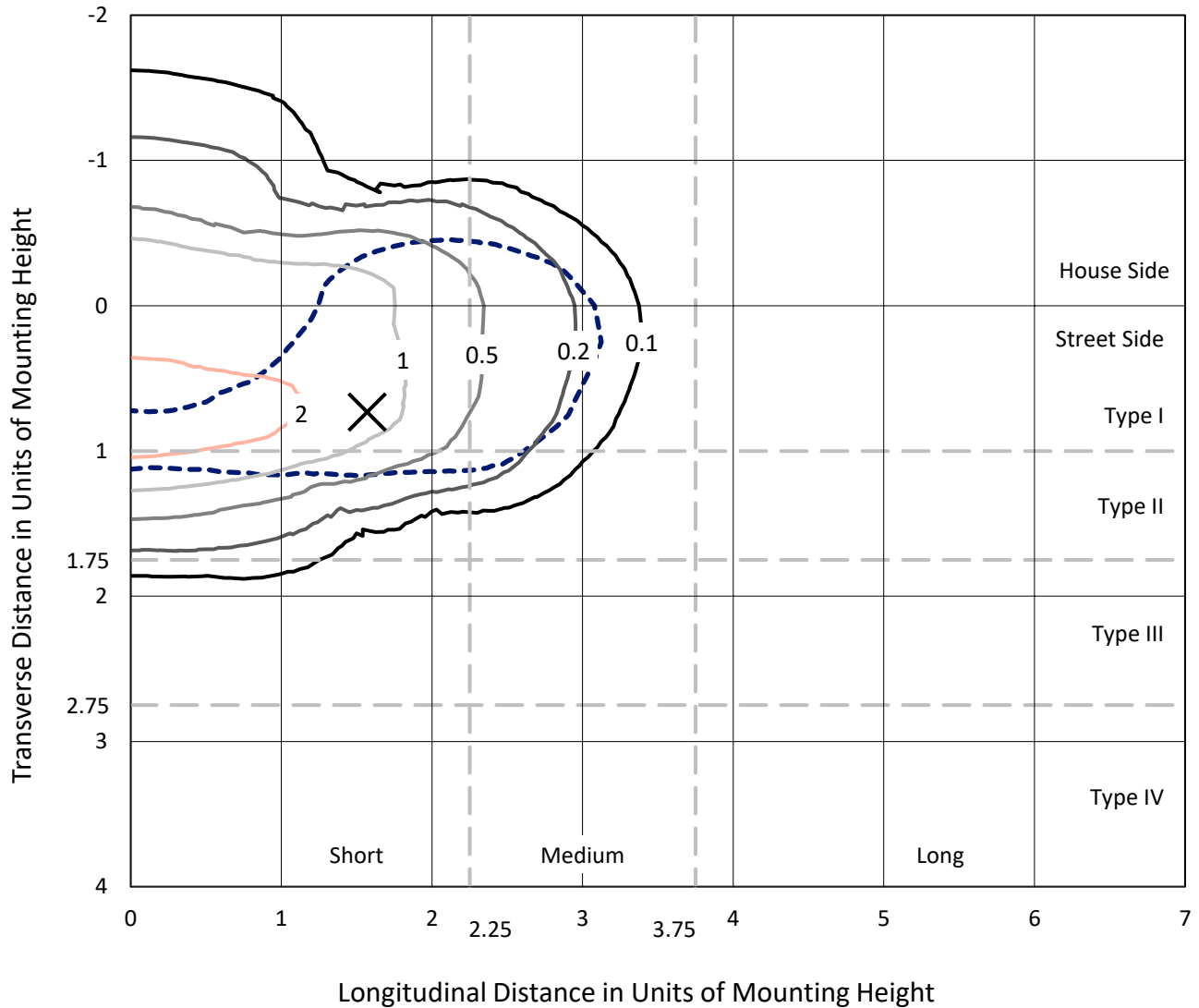
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P573376
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Iso-Footcandle Lines of Horizontal Illumination

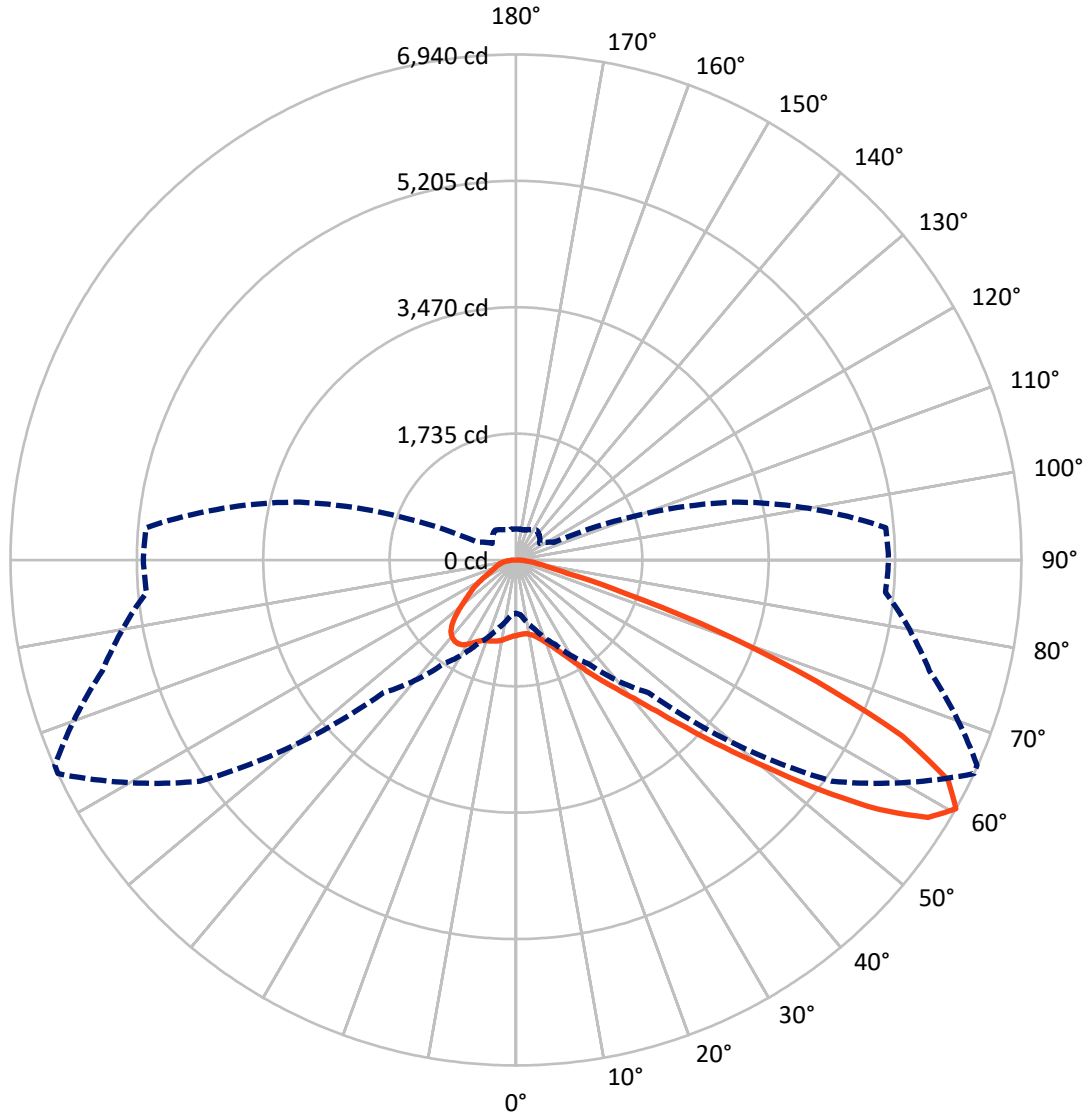
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

REPORT NUMBER: P573376
CATALOG NUMBER: ARCH-S-PA2-70-727-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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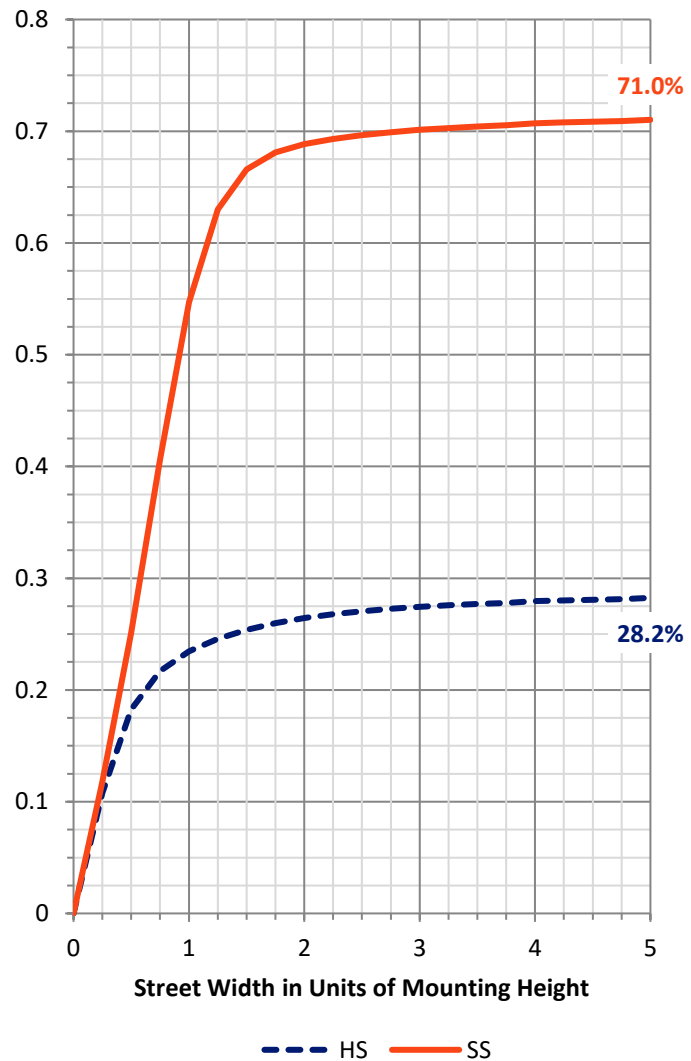
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2532.1	0.0	2532.1
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	6312.9	0.0	6312.9
	% Fixture	71.4	0.0	71.4
Total	Lumens	8845.0	0.0	8845.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	1.1
10°-20°	322.7	3.6
20°-30°	618.6	7.0
30°-40°	1074.4	12.1
40°-50°	1822.1	20.6
50°-60°	2268.9	25.7
60°-70°	1828.3	20.7
70°-80°	692.3	7.8
80°-90°	117.4	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°	8845.0	100.0
0°-180°	8845.0	100.0



REPORT NUMBER: P573376

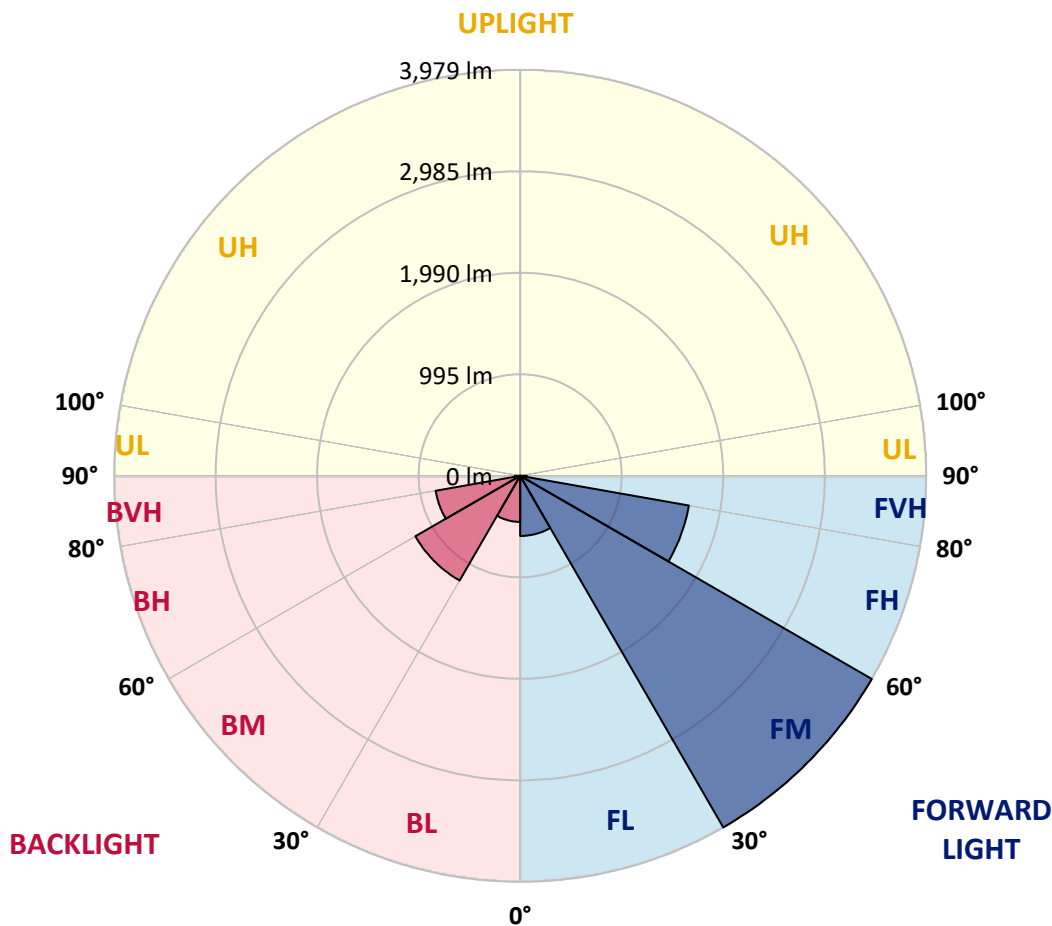
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	589.7	6.7			
FM (30°-60°)	3979.4	45.0			
FH (60°-80°)	1678.7	19.0			G1/1800
FVH (80°-90°)	65.1	0.7			G1/100
BL (0°-30°)	451.9	5.1	B1/500		
BM (30°-60°)	1186.0	13.4	B2/2500		
BH (60°-80°)	841.9	9.5	B2/1000		G2/1000
BVH (80°-90°)	52.3	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





REPORT NUMBER: P573376

CATALOG NUMBER: ARCH-S-PA2-70-727-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1037.8	1037.8	1037.8	1037.8	1037.8	1037.8	1037.8	1037.8	1037.8	1037.8	1037.8
2.5°	1013.5	1013.5	1013.5	1016.0	1018.4	1020.8	1025.7	1025.7	1025.7	1028.1	1032.9
5°	994.1	991.7	994.1	996.6	1001.4	1006.3	1016.0	1020.8	1020.8	1030.5	1040.2
7.5°	996.6	991.7	991.7	994.1	999.0	1003.8	1013.5	1020.8	1023.2	1035.4	1052.3
10°	1020.8	1013.5	1013.5	1016.0	1016.0	1020.8	1028.1	1037.8	1040.2	1052.3	1069.3
12.5°	1071.7	1064.5	1062.0	1054.8	1047.5	1052.3	1059.6	1062.0	1064.5	1071.7	1088.7
15°	1178.4	1166.3	1146.9	1132.3	1113.0	1100.8	1098.4	1100.8	1100.8	1103.3	1113.0
17.5°	1331.2	1316.6	1287.5	1256.0	1209.9	1171.1	1159.0	1149.3	1149.3	1142.0	1142.0
20°	1517.9	1496.1	1462.1	1416.0	1348.1	1277.8	1236.6	1214.8	1207.5	1195.4	1178.4
22.5°	1733.7	1719.1	1675.5	1605.2	1503.3	1408.8	1340.9	1292.4	1292.4	1263.3	1226.9
25°	1988.3	1961.6	1910.7	1828.2	1690.0	1554.3	1462.1	1391.8	1384.5	1338.5	1280.3
27.5°	2235.6	2218.6	2155.6	2046.5	1881.6	1724.0	1595.5	1513.0	1500.9	1428.2	1338.5
30°	2536.3	2516.9	2422.3	2269.5	2092.5	1913.1	1762.8	1656.1	1644.0	1544.6	1418.5
32.5°	2909.7	2844.2	2727.8	2553.2	2325.3	2124.1	1951.9	1837.9	1823.4	1709.4	1559.1
35°	3363.1	3307.3	3106.1	2921.8	2650.2	2385.9	2179.8	2029.5	2010.1	1874.3	1685.2
37.5°	3683.2	3656.5	3518.3	3372.8	3062.4	2706.0	2453.8	2245.3	2225.9	2046.5	1801.6
40°	3884.4	3857.7	3818.9	3777.7	3605.6	3203.1	2783.6	2499.9	2468.4	2298.6	2034.3
42.5°	3988.7	3966.9	3974.1	4056.6	4105.1	4042.0	3254.0	2839.4	2817.5	2611.4	2318.0
45°	3928.1	3913.5	3983.8	4202.1	4439.7	4905.2	3857.7	3285.5	3227.3	2982.4	2662.4
47.5°	3637.1	3593.5	3758.3	4129.3	4638.5	5317.4	4585.2	3835.9	3772.9	3421.3	3011.5
50°	3038.2	3026.1	3251.6	3722.0	4560.9	5479.9	5363.5	4485.8	4439.7	3894.1	3399.5
52.5°	2480.5	2475.6	2650.2	3081.8	4066.3	5365.9	5928.5	5259.2	5121.0	4369.4	3821.4
55°	1925.2	1922.8	2078.0	2400.5	3244.3	4830.1	6195.2	6047.3	5945.4	4888.3	4255.4
57.5°	1316.6	1299.7	1500.9	1745.8	2436.9	3826.2	6020.6	6670.4	6607.4	5438.7	4716.1
60°	732.3	756.5	979.6	1282.7	1743.4	2577.5	5293.2	6939.6	6929.9	5877.5	5091.9
62.5°	518.9	528.6	623.2	911.7	1146.9	1476.7	4083.2	6660.7	6738.3	6120.0	5305.3
65°	431.6	436.5	482.5	674.1	839.0	853.5	2546.0	5833.9	5935.7	6044.9	5351.4
67.5°	407.4	409.8	434.0	497.1	657.1	618.3	1137.2	4454.2	4670.0	5438.7	5050.7
70°	371.0	373.4	409.8	438.9	531.0	487.4	584.4	2958.2	3249.1	4299.0	4354.8
72.5°	317.6	324.9	354.0	412.2	431.6	404.9	451.0	1580.9	1869.5	2875.7	3363.1
75°	274.0	278.8	300.7	349.2	404.9	322.5	383.1	720.1	843.8	1687.6	2128.9
77.5°	220.7	223.1	254.6	286.1	339.5	261.9	298.2	431.6	453.4	824.4	962.6
80°	167.3	167.3	189.1	227.9	252.2	252.2	218.2	300.7	312.8	392.8	380.7
82.5°	128.5	126.1	143.1	160.0	181.9	211.0	164.9	198.8	203.7	237.6	203.7
85°	84.9	84.9	94.6	109.1	121.2	116.4	128.5	116.4	121.2	147.9	111.5
87.5°	36.4	36.4	50.9	48.5	53.3	55.8	63.0	55.8	55.8	67.9	50.9
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: P573376

CATALOG NUMBER: ARCH-S-PA2-70-727-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1037.8	1037.8	1037.8	1037.8	1037.8	1037.8	1037.8	1037.8	1037.8	1037.8	1037.8
2.5°	1035.4	1037.8	1042.6	1045.1	1052.3	1054.8	1054.8	1059.6	1059.6	1064.5	1064.5
5°	1042.6	1049.9	1057.2	1064.5	1071.7	1074.2	1079.0	1081.4	1081.4	1086.3	1083.9
7.5°	1057.2	1064.5	1079.0	1086.3	1096.0	1100.8	1098.4	1100.8	1098.4	1100.8	1100.8
10°	1076.6	1086.3	1103.3	1113.0	1120.2	1122.7	1115.4	1108.1	1098.4	1098.4	1098.4
12.5°	1098.4	1105.7	1127.5	1134.8	1139.6	1132.3	1113.0	1098.4	1091.1	1093.6	1091.1
15°	1120.2	1127.5	1144.5	1151.7	1151.7	1129.9	1113.0	1108.1	1105.7	1108.1	1108.1
17.5°	1142.0	1149.3	1163.9	1163.9	1156.6	1139.6	1122.7	1105.7	1093.6	1086.3	1086.3
20°	1171.1	1171.1	1176.0	1176.0	1173.6	1146.9	1105.7	1064.5	1040.2	1025.7	1023.2
22.5°	1209.9	1200.2	1190.5	1190.5	1200.2	1129.9	1049.9	986.9	948.1	943.2	933.5
25°	1251.2	1229.3	1205.1	1222.1	1205.1	1086.3	972.3	887.5	841.4	824.4	829.3
27.5°	1294.8	1260.9	1224.5	1273.0	1180.8	1001.4	863.2	768.6	725.0	712.9	712.9
30°	1355.4	1304.5	1251.2	1326.3	1134.8	904.4	734.7	666.8	642.6	632.9	630.4
32.5°	1471.8	1394.2	1316.6	1374.8	1083.9	778.3	647.4	606.2	577.1	567.4	574.7
35°	1576.1	1467.0	1416.0	1396.6	1003.8	676.5	594.1	557.7	533.4	521.3	521.3
37.5°	1670.6	1566.4	1527.6	1396.6	899.6	613.5	560.1	531.0	499.5	489.8	489.8
40°	1876.7	1738.5	1670.6	1377.2	771.1	581.9	543.1	509.2	482.5	472.8	470.4
42.5°	2160.4	1973.7	1818.5	1333.6	662.0	567.4	533.4	494.6	472.8	465.5	463.1
45°	2461.1	2296.2	1959.2	1256.0	591.6	552.8	531.0	489.8	463.1	455.8	453.4
47.5°	2824.8	2655.1	2121.6	1137.2	543.1	543.1	528.6	482.5	458.3	451.0	451.0
50°	3227.3	3086.7	2327.7	1001.4	506.8	535.9	523.7	482.5	455.8	448.6	446.2
52.5°	3639.5	3574.1	2543.5	868.1	470.4	526.2	521.3	482.5	451.0	443.7	443.7
55°	4163.3	4109.9	2793.3	768.6	441.3	506.8	521.3	477.7	443.7	438.9	438.9
57.5°	4677.3	4657.9	2987.3	681.3	419.5	482.5	514.0	470.4	436.5	434.0	434.0
60°	5116.2	5096.8	3069.7	572.2	397.7	458.3	499.5	458.3	424.3	426.8	426.8
62.5°	5387.8	5276.2	3009.1	472.8	375.8	436.5	482.5	443.7	412.2	419.5	417.1
65°	5436.2	5176.8	2773.9	395.2	351.6	412.2	463.1	426.8	395.2	412.2	409.8
67.5°	5079.8	4648.2	2332.6	344.3	327.3	385.5	441.3	402.5	375.8	400.1	392.8
70°	4308.7	3775.3	1726.4	305.5	303.1	354.0	412.2	373.4	349.2	361.3	351.6
72.5°	3207.9	2725.4	1117.8	276.4	276.4	317.6	371.0	337.0	312.8	315.2	305.5
75°	2000.4	1675.5	635.3	249.7	249.7	281.3	329.8	295.8	278.8	269.1	281.3
77.5°	909.3	737.1	334.6	223.1	225.5	240.0	283.7	252.2	232.8	218.2	225.5
80°	337.0	300.7	218.2	191.6	196.4	198.8	227.9	201.3	184.3	174.6	169.7
82.5°	174.6	162.5	147.9	152.8	160.0	152.8	177.0	150.3	130.9	123.7	104.3
85°	87.3	84.9	89.7	101.8	111.5	94.6	106.7	97.0	80.0	58.2	58.2
87.5°	33.9	36.4	33.9	46.1	50.9	43.6	48.5	33.9	24.2	12.1	9.7
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)