

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: P572807

Luminaire Tested: **ARCH-S-PA2-120-727-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-120-727-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13120 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

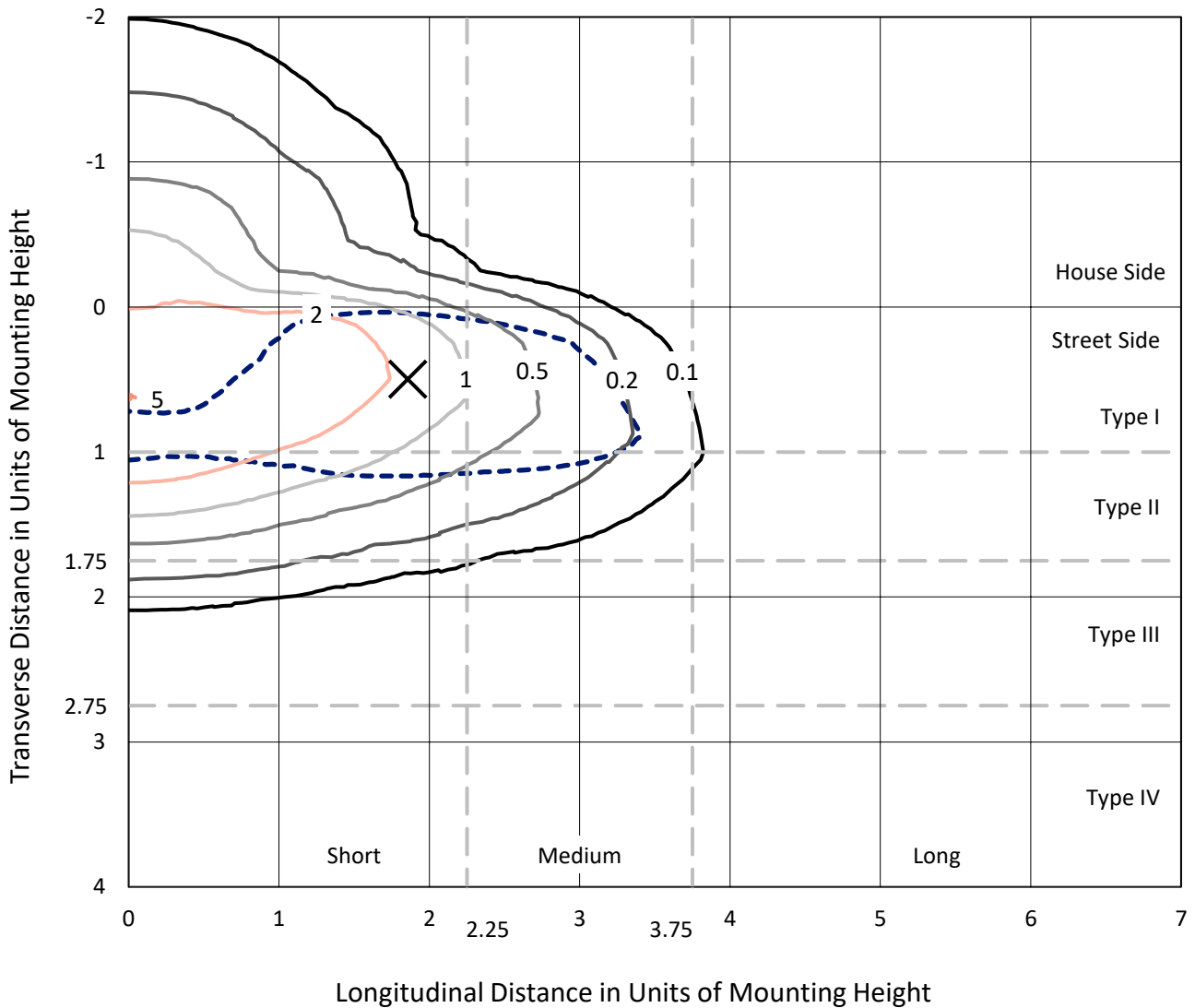
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

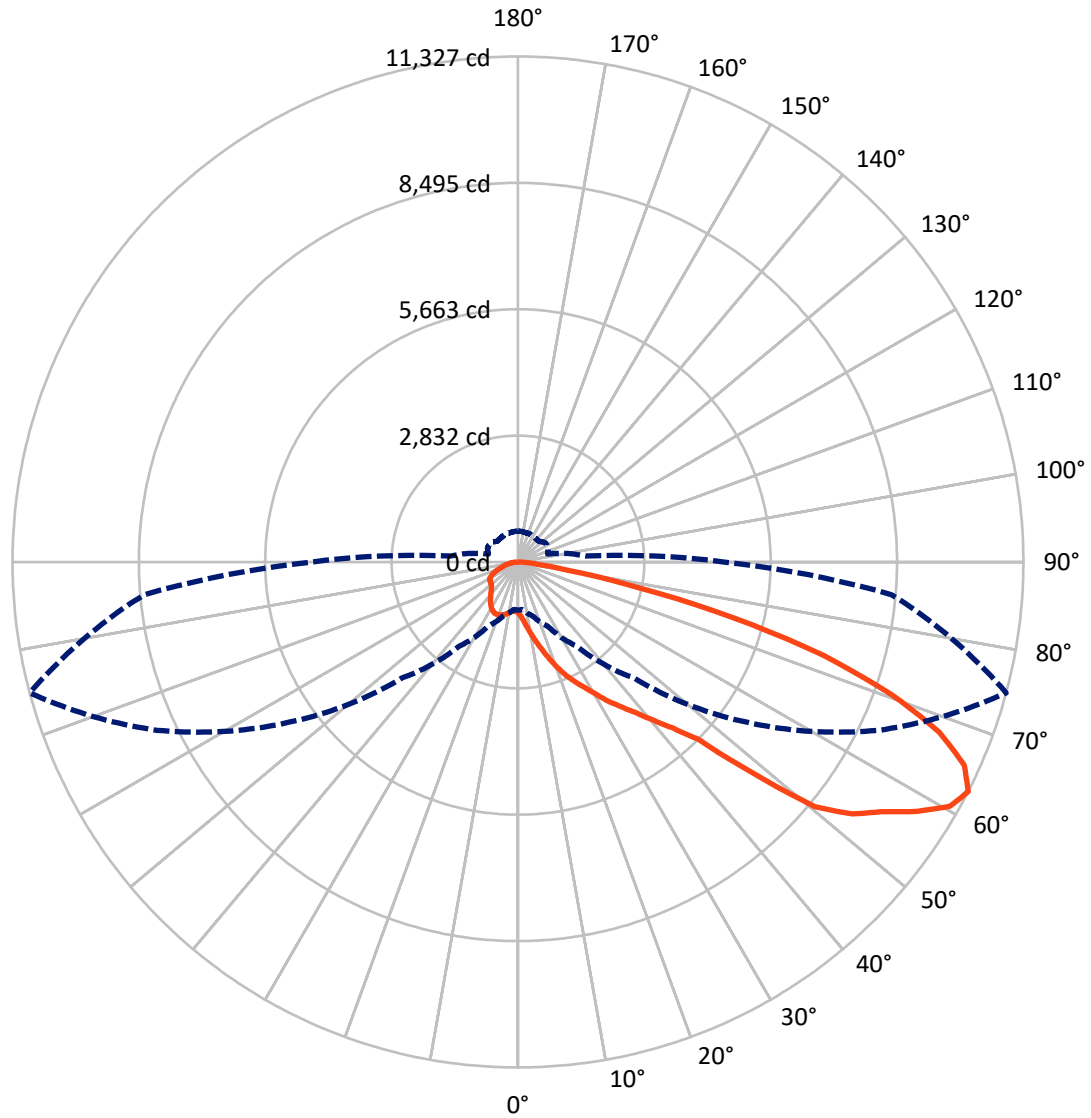
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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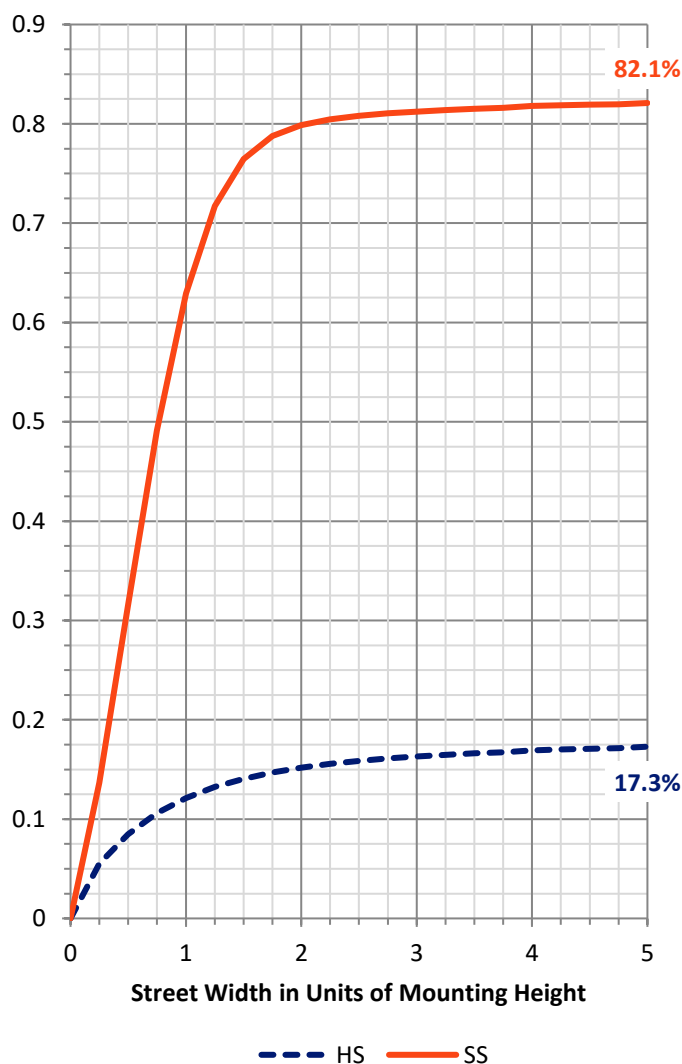
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2314.0	0.0	2314.0
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	10806.0	0.0	10806.0
	% Fixture	82.4	0.0	82.4
Total	Lumens	13120.0	0.0	13120.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	1.0
10°-20°	542.9	4.1
20°-30°	1074.1	8.2
30°-40°	1790.3	13.6
40°-50°	2641.8	20.1
50°-60°	3175.7	24.2
60°-70°	2468.2	18.8
70°-80°	1091.9	8.3
80°-90°	197.7	1.5
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°	13120.0	100.0
0°-180°	13120.0	100.0

Coefficient of Utilization

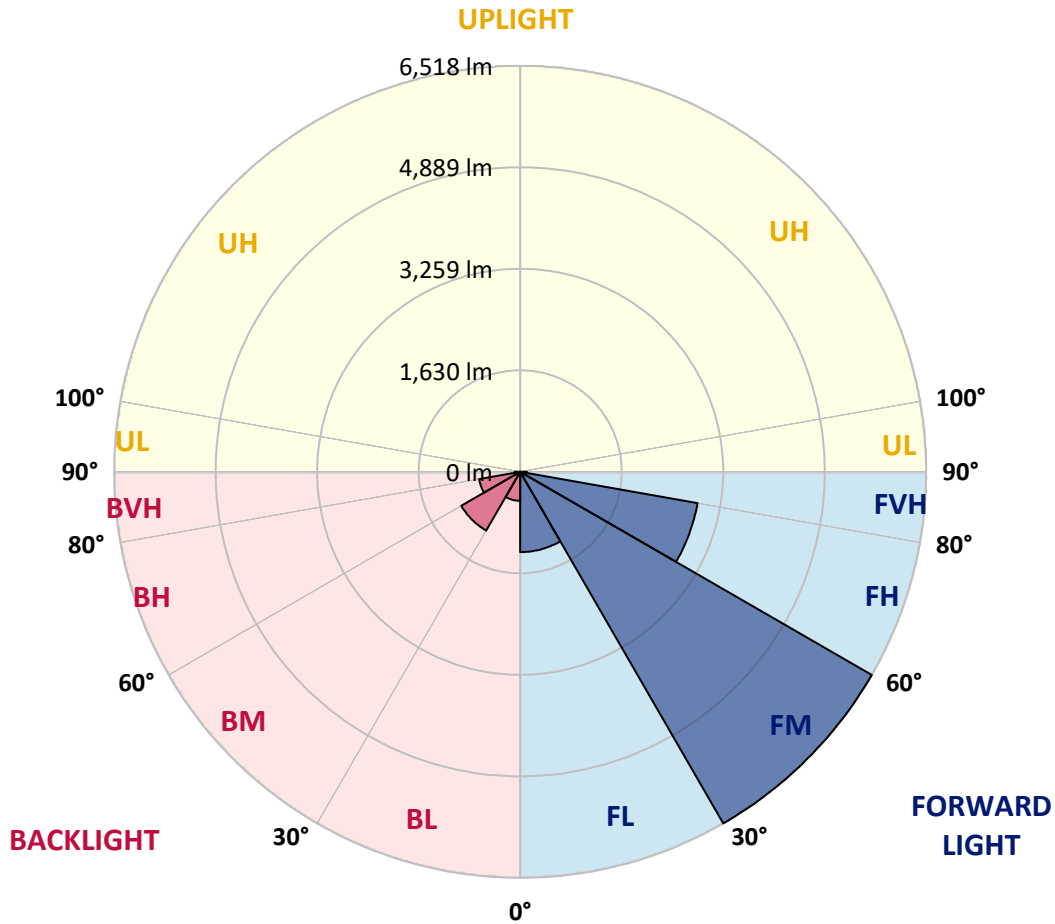


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1288.7	9.8			
FM (30°-60°)	6518.0	49.7			
FH (60°-80°)	2890.6	22.0			G2/5000
FVH (80°-90°)	108.7	0.8			G2/225
BL (0°-30°)	465.6	3.5	B1/500		
BM (30°-60°)	1089.9	8.3	B2/2500		
BH (60°-80°)	669.5	5.1	B2/1000		G2/1000
BVH (80°-90°)	89.0	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6
2.5°	1462.3	1419.8	1419.8	1373.8	1377.3	1338.4	1295.9	1253.4	1207.4	1172.0	1154.2
5°	1911.9	1880.1	1869.5	1816.3	1731.4	1635.8	1533.1	1426.9	1317.1	1232.1	1189.7
7.5°	2333.3	2308.5	2294.3	2234.1	2117.3	2014.6	1851.8	1657.0	1469.4	1310.0	1246.3
10°	2644.9	2627.2	2598.8	2570.5	2485.5	2397.0	2195.2	1919.0	1642.9	1405.6	1310.0
12.5°	2871.5	2846.7	2846.7	2843.1	2786.5	2705.1	2517.4	2220.0	1844.7	1511.9	1380.9
15°	3023.7	3020.2	3030.8	3052.0	3037.9	2984.8	2797.1	2496.2	2050.0	1632.2	1462.3
17.5°	3137.0	3122.8	3144.1	3200.7	3243.2	3222.0	3066.2	2761.7	2276.6	1763.2	1550.8
20°	3260.9	3232.6	3260.9	3331.7	3384.9	3416.7	3342.4	3016.6	2520.9	1904.9	1635.8
22.5°	3498.2	3494.6	3480.5	3501.7	3537.1	3593.8	3551.3	3275.1	2758.2	2046.5	1734.9
25°	3923.0	3884.1	3845.1	3799.1	3760.2	3777.9	3742.5	3515.9	2974.1	2202.3	1819.9
27.5°	4397.5	4355.0	4284.2	4170.9	4064.7	4000.9	3926.6	3724.8	3183.0	2343.9	1901.3
30°	4833.0	4818.8	4712.6	4588.7	4404.6	4287.7	4146.1	3965.5	3434.4	2499.7	1986.3
32.5°	5240.2	5211.8	5105.6	4974.6	4758.6	4627.6	4432.9	4227.5	3721.2	2690.9	2074.8
35°	5590.7	5562.3	5438.4	5272.0	5084.4	4971.1	4748.0	4461.2	3983.2	2857.3	2149.2
37.5°	5856.2	5824.4	5707.5	5544.6	5378.2	5325.1	5133.9	4758.6	4280.6	3066.2	2241.2
40°	6004.9	5966.0	5888.1	5774.8	5636.7	5611.9	5530.5	5126.9	4655.9	3321.1	2375.8
42.5°	6022.6	5987.2	5944.7	5934.1	5923.5	5944.7	5983.7	5544.6	5084.4	3661.0	2574.0
45°	5866.8	5845.6	5849.1	5969.5	6135.9	6330.7	6564.4	6160.7	5661.5	4309.0	3020.2
47.5°	5534.0	5523.4	5601.3	5803.1	6174.9	6617.5	7279.6	7215.8	7028.2	5353.5	3593.8
50°	4995.8	4978.1	5144.6	5463.2	5994.3	6713.1	7761.1	8458.6	8614.4	6164.3	3969.1
52.5°	4224.0	4245.2	4503.7	4939.2	5580.1	6610.4	7959.4	8968.4	9379.2	6762.6	4255.9
55°	3434.4	3402.6	3636.2	4174.4	4967.5	6235.1	7998.3	9262.3	9874.9	7315.0	4535.6
57.5°	2503.2	2581.1	2829.0	3317.6	4178.0	5555.3	7771.7	9464.1	10540.5	7867.3	4794.0
60°	1696.0	1696.0	1915.5	2404.1	3229.1	4730.3	7166.3	9389.8	11121.2	8299.3	4850.7
62.5°	1079.9	1069.3	1246.3	1593.3	2312.0	3675.2	6259.9	8922.4	11326.5	8401.9	4613.5
65°	683.3	697.5	761.2	973.7	1480.0	2609.5	5024.2	7991.2	10990.2	8164.7	4199.2
67.5°	548.8	552.3	584.2	672.7	909.9	1674.7	3724.8	6706.0	10186.4	7566.4	3714.1
70°	485.1	492.1	499.2	531.1	623.2	1058.7	2446.6	5399.5	8869.3	6525.4	3193.7
72.5°	442.6	449.7	456.7	463.8	513.4	690.4	1444.6	4093.0	7155.6	5013.6	2436.0
75°	407.2	414.3	414.3	417.8	446.1	513.4	793.1	2821.9	4981.7	3119.3	1518.9
77.5°	364.7	368.2	368.2	375.3	403.6	403.6	492.1	1745.5	2765.2	1412.7	768.3
80°	308.0	315.1	315.1	325.7	354.1	311.6	329.3	892.2	1147.2	580.7	343.4
82.5°	226.6	240.8	247.8	265.5	283.3	237.2	237.2	449.7	485.1	258.5	184.1
85°	123.9	127.5	184.1	198.3	208.9	141.6	159.3	223.1	240.8	113.3	92.1
87.5°	35.4	38.9	88.5	109.8	99.1	60.2	67.3	85.0	85.0	31.9	24.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6	1143.6
2.5°	1140.1	1111.8	1087.0	1069.3	1051.6	1040.9	1037.4	1030.3	1030.3	1033.9
5°	1154.2	1104.7	1065.7	1044.5	1030.3	1023.2	1019.7	1019.7	1023.2	1023.2
7.5°	1189.7	1115.3	1079.9	1062.2	1048.0	1040.9	1040.9	1037.4	1040.9	1040.9
10°	1239.2	1147.2	1108.2	1087.0	1076.4	1065.7	1062.2	1058.7	1058.7	1058.7
12.5°	1292.3	1182.6	1140.1	1115.3	1097.6	1083.4	1076.4	1069.3	1065.7	1065.7
15°	1341.9	1218.0	1161.3	1133.0	1108.2	1087.0	1072.8	1062.2	1058.7	1058.7
17.5°	1395.0	1242.8	1175.5	1136.5	1104.7	1076.4	1058.7	1044.5	1037.4	1037.4
20°	1451.7	1260.5	1175.5	1125.9	1083.4	1055.1	1033.9	1019.7	1005.5	1005.5
22.5°	1497.7	1267.6	1161.3	1101.1	1058.7	1023.2	1002.0	984.3	973.7	973.7
25°	1536.6	1260.5	1129.5	1062.2	1012.6	980.8	959.5	945.4	934.7	934.7
27.5°	1561.4	1232.1	1090.5	1019.7	973.7	941.8	927.6	913.5	906.4	906.4
30°	1575.6	1196.7	1040.9	973.7	927.6	909.9	902.9	888.7	878.1	874.5
32.5°	1582.7	1143.6	991.4	927.6	895.8	888.7	888.7	871.0	856.8	853.3
35°	1575.6	1087.0	941.8	888.7	878.1	881.6	874.5	853.3	835.6	828.5
37.5°	1565.0	1019.7	888.7	860.4	871.0	878.1	856.8	828.5	800.2	793.1
40°	1557.9	959.5	846.2	832.1	863.9	867.5	828.5	775.4	754.2	747.1
42.5°	1593.3	899.3	807.3	810.8	846.2	849.8	778.9	754.2	740.0	736.5
45°	1713.7	846.2	775.4	796.6	825.0	810.8	754.2	750.6	740.0	736.5
47.5°	1805.7	807.3	761.2	786.0	807.3	757.7	750.6	747.1	736.5	732.9
50°	1837.6	782.5	757.7	778.9	782.5	732.9	743.5	743.5	732.9	729.4
52.5°	1841.1	768.3	764.8	775.4	743.5	722.3	736.5	736.5	725.8	722.3
55°	1855.3	761.2	768.3	775.4	701.0	708.1	722.3	725.8	715.2	711.7
57.5°	1827.0	750.6	775.4	778.9	683.3	694.0	708.1	708.1	708.1	708.1
60°	1717.2	729.4	771.9	771.9	669.2	676.3	690.4	697.5	701.0	701.0
62.5°	1515.4	686.9	750.6	750.6	655.0	662.1	679.8	679.8	690.4	690.4
65°	1260.5	626.7	708.1	704.6	640.9	647.9	669.2	662.1	679.8	683.3
67.5°	1051.6	552.3	644.4	651.5	626.7	644.4	658.6	633.8	669.2	669.2
70°	839.1	463.8	559.4	591.3	601.9	647.9	637.3	598.4	644.4	633.8
72.5°	651.5	393.0	460.3	516.9	573.6	644.4	591.3	548.8	577.1	559.4
75°	474.4	325.7	378.8	428.4	534.6	633.8	545.3	481.5	481.5	474.4
77.5°	332.8	265.5	304.5	339.9	495.7	605.4	488.6	414.3	396.6	393.0
80°	226.6	208.9	240.8	262.0	439.0	548.8	421.3	343.4	311.6	304.5
82.5°	148.7	148.7	162.9	177.0	339.9	456.7	329.3	254.9	329.3	315.1
85°	85.0	88.5	88.5	102.7	187.7	322.2	233.7	254.9	152.2	141.6
87.5°	28.3	28.3	28.3	28.3	38.9	131.0	99.1	92.1	35.4	31.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)