

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: P572861

Luminaire Tested: **ARCH-S-PA2-120-827-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572861
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-PA2-120-827-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 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: 11532 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

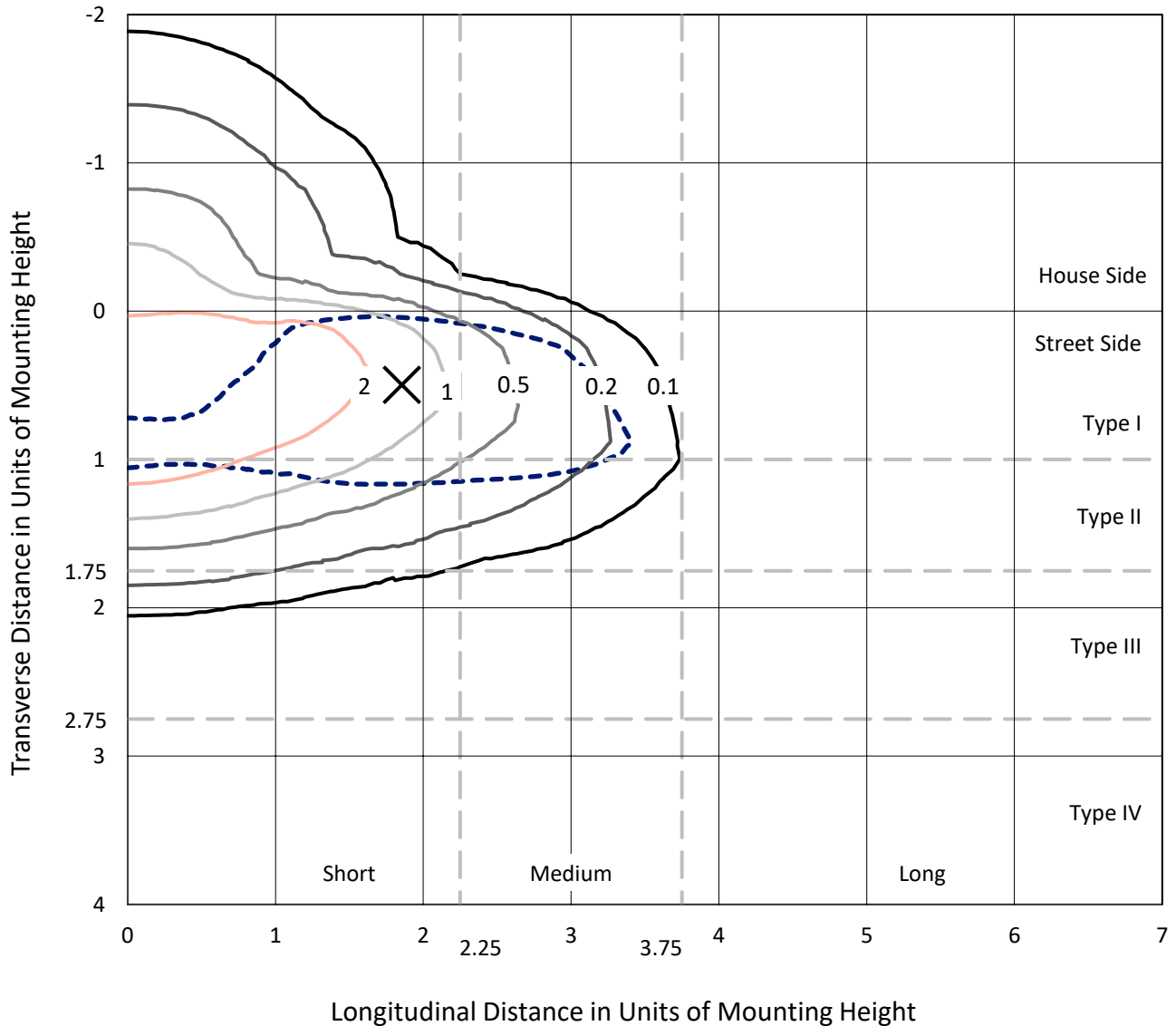
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

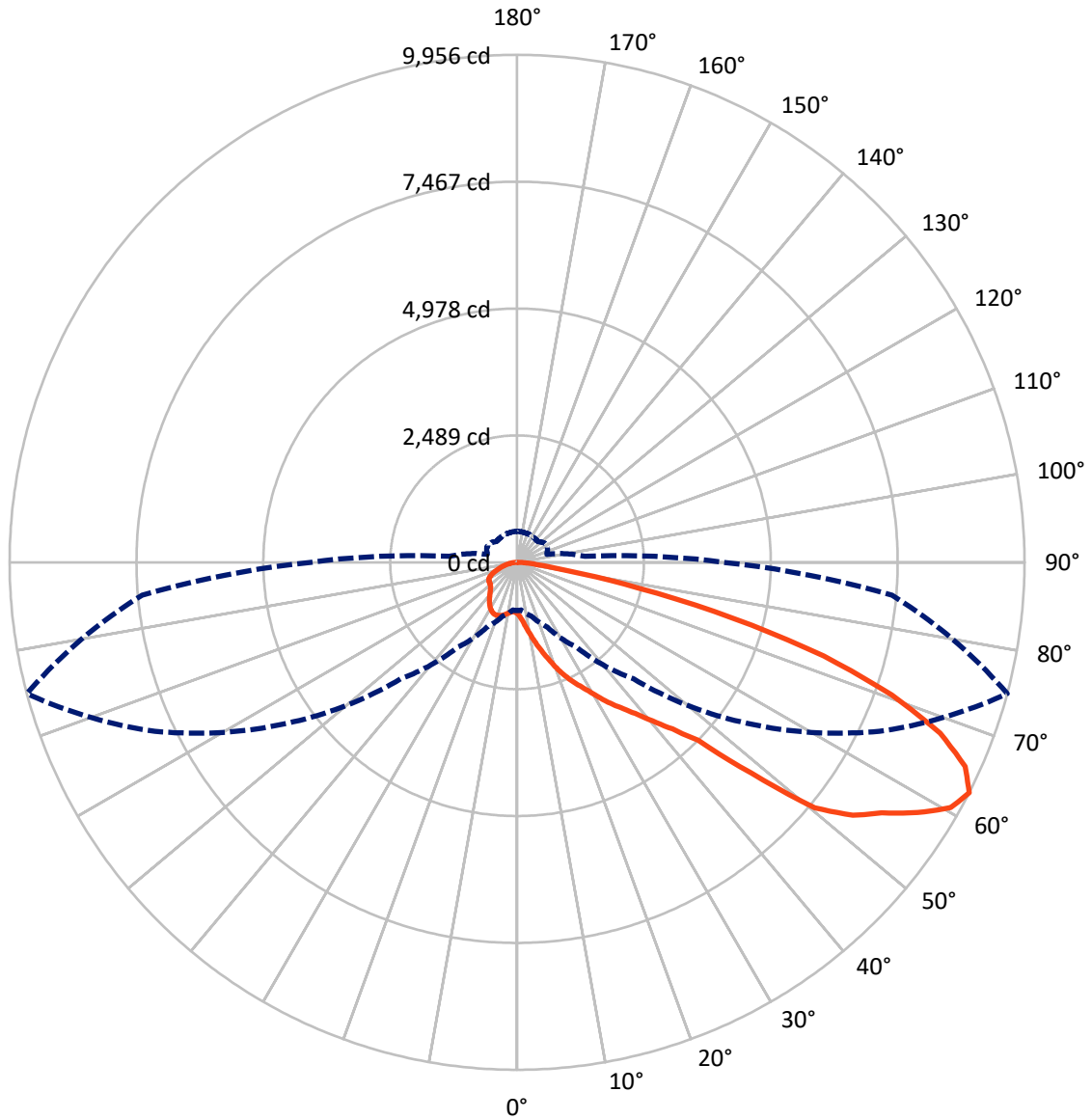
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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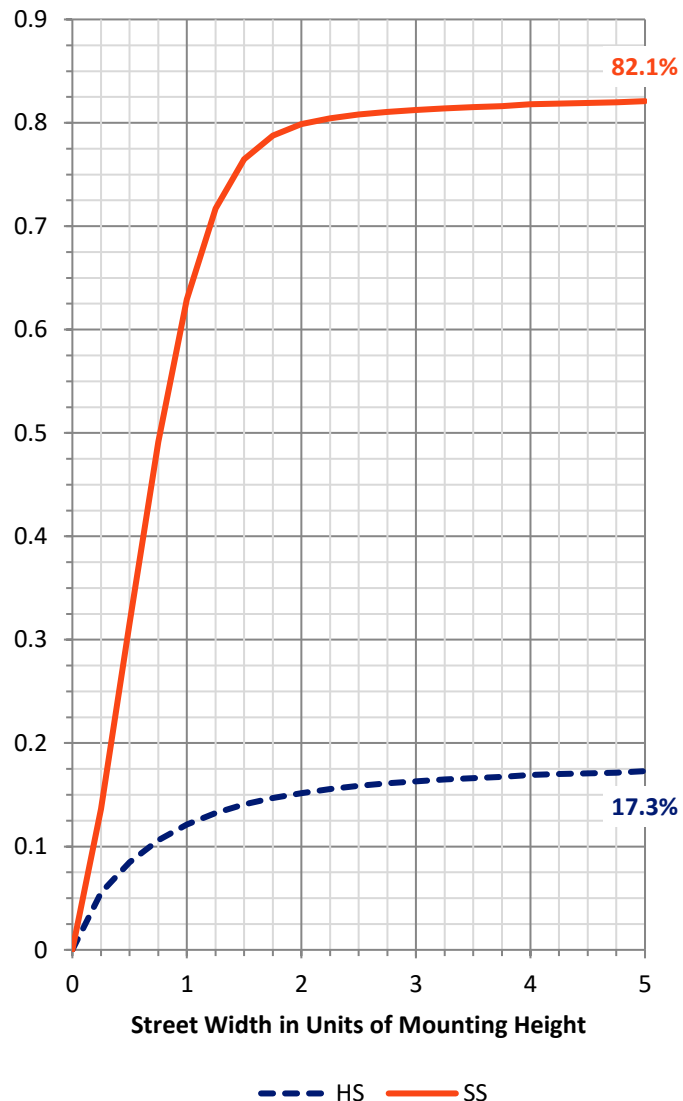
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2033.9	0.0	2033.9
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	9498.1	0.0	9498.1
	% Fixture	82.4	0.0	82.4
Total	Lumens	11532.0	0.0	11532.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	1.0
10°-20°	477.2	4.1
20°-30°	944.1	8.2
30°-40°	1573.6	13.6
40°-50°	2322.1	20.1
50°-60°	2791.4	24.2
60°-70°	2169.4	18.8
70°-80°	959.7	8.3
80°-90°	173.7	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°	11532.0	100.0
0°-180°	11532.0	100.0

Coefficient of Utilization



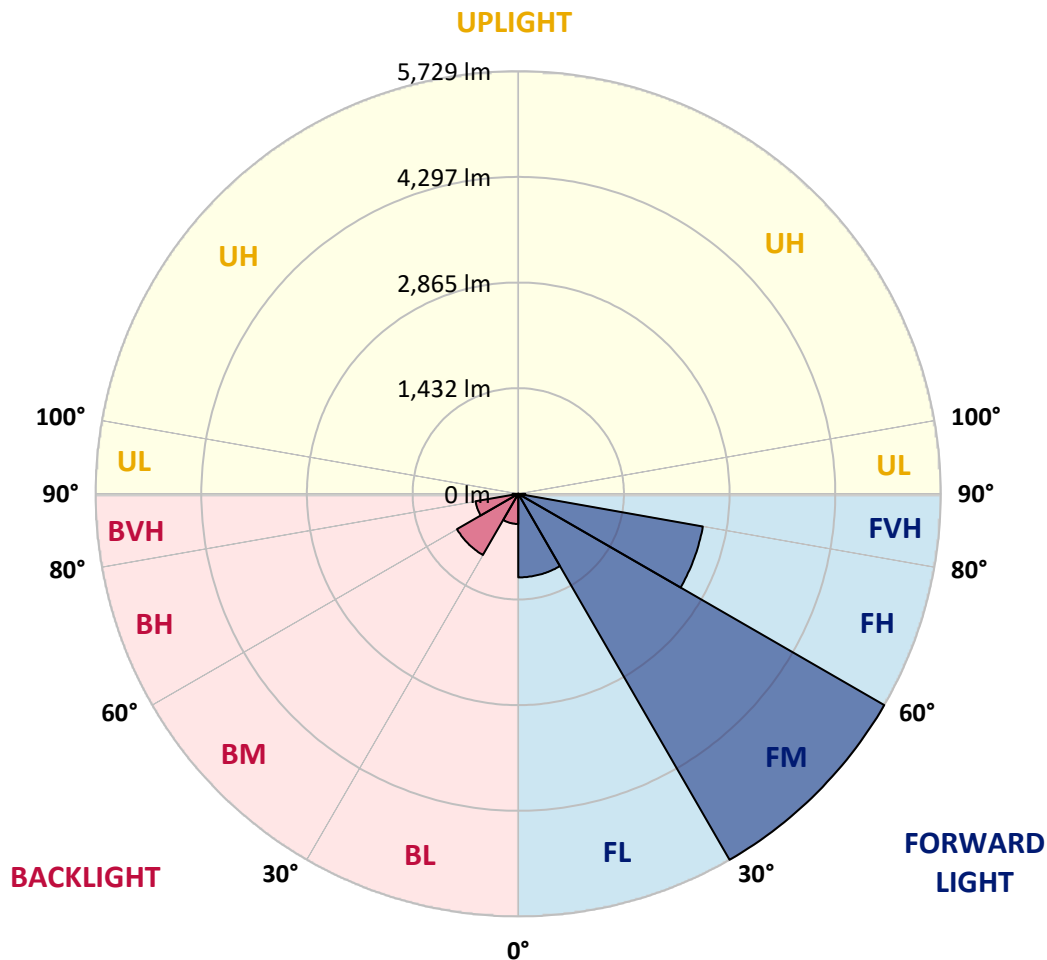
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1132.7	9.8			
FM (30°-60°)	5729.1	49.7			
FH (60°-80°)	2540.7	22.0			G2/5000
FVH (80°-90°)	95.5	0.8			G1/100
BL (0°-30°)	409.3	3.5	B1/500		
BM (30°-60°)	958.0	8.3	B1/1000		
BH (60°-80°)	588.5	5.1	B2/1000		G2/1000
BVH (80°-90°)	78.2	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°	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2
2.5°	1285.3	1248.0	1248.0	1207.5	1210.6	1176.4	1139.0	1101.7	1061.2	1030.1	1014.5
5°	1680.5	1652.5	1643.2	1596.5	1521.8	1437.8	1347.5	1254.2	1157.7	1083.0	1045.7
7.5°	2050.9	2029.1	2016.6	1963.7	1861.0	1770.8	1627.6	1456.5	1291.5	1151.5	1095.5
10°	2324.7	2309.2	2284.3	2259.4	2184.7	2106.9	1929.5	1686.8	1444.0	1235.5	1151.5
12.5°	2523.9	2502.1	2502.1	2499.0	2449.2	2377.6	2212.7	1951.3	1621.4	1328.9	1213.7
15°	2657.7	2654.6	2664.0	2682.6	2670.2	2623.5	2458.6	2194.0	1801.9	1434.7	1285.3
17.5°	2757.3	2744.9	2763.5	2813.3	2850.7	2832.0	2695.1	2427.4	2001.1	1549.8	1363.1
20°	2866.2	2841.3	2866.2	2928.5	2975.2	3003.2	2937.8	2651.5	2215.8	1674.3	1437.8
22.5°	3074.8	3071.6	3059.2	3077.9	3109.0	3158.8	3121.4	2878.7	2424.3	1798.8	1524.9
25°	3448.2	3414.0	3379.7	3339.3	3305.0	3320.6	3289.5	3090.3	2614.2	1935.7	1599.6
27.5°	3865.2	3827.9	3765.6	3666.0	3572.7	3516.7	3451.3	3273.9	2797.8	2060.2	1671.2
30°	4248.0	4235.6	4142.2	4033.3	3871.4	3768.7	3644.3	3485.5	3018.7	2197.1	1745.9
32.5°	4605.9	4581.0	4487.6	4372.5	4182.7	4067.5	3896.3	3715.8	3270.8	2365.2	1823.7
35°	4914.0	4889.1	4780.2	4633.9	4469.0	4369.4	4173.3	3921.2	3501.1	2511.5	1889.0
37.5°	5147.4	5119.4	5016.7	4873.5	4727.3	4680.6	4512.5	4182.7	3762.5	2695.1	1970.0
40°	5278.1	5243.9	5175.4	5075.8	4954.5	4932.7	4861.1	4506.3	4092.4	2919.1	2088.2
42.5°	5293.7	5262.6	5225.2	5215.9	5206.5	5225.2	5259.4	4873.5	4469.0	3217.9	2262.5
45°	5156.7	5138.1	5141.2	5247.0	5393.3	5564.4	5769.8	5415.0	4976.2	3787.4	2654.6
47.5°	4864.2	4854.9	4923.3	5100.7	5427.5	5816.5	6398.5	6342.5	6177.5	4705.5	3158.8
50°	4391.2	4375.6	4521.9	4802.0	5268.8	5900.5	6821.7	7434.8	7571.7	5418.2	3488.7
52.5°	3712.7	3731.4	3958.6	4341.4	4904.7	5810.3	6996.0	7882.9	8243.9	5944.1	3740.7
55°	3018.7	2990.7	3196.1	3669.2	4366.3	5480.4	7030.2	8141.2	8679.6	6429.6	3986.6
57.5°	2200.3	2268.7	2486.6	2916.0	3672.3	4882.9	6831.0	8318.6	9264.7	6915.1	4213.8
60°	1490.7	1490.7	1683.6	2113.1	2838.2	4157.8	6298.9	8253.3	9775.1	7294.8	4263.6
62.5°	949.2	939.9	1095.5	1400.4	2032.2	3230.4	5502.2	7842.5	9955.6	7385.0	4055.1
65°	600.6	613.1	669.1	855.8	1300.9	2293.6	4416.1	7024.0	9659.9	7176.5	3690.9
67.5°	482.4	485.5	513.5	591.3	799.8	1472.0	3273.9	5894.3	8953.5	6650.5	3264.6
70°	426.4	432.6	438.8	466.8	547.7	930.5	2150.5	4745.9	7795.8	5735.6	2807.1
72.5°	389.0	395.2	401.5	407.7	451.3	606.9	1269.7	3597.6	6289.5	4406.7	2141.1
75°	357.9	364.1	364.1	367.2	392.1	451.3	697.1	2480.3	4378.7	2741.8	1335.1
77.5°	320.5	323.7	323.7	329.9	354.8	354.8	432.6	1534.3	2430.5	1241.7	675.3
80°	270.8	277.0	277.0	286.3	311.2	273.9	289.4	784.2	1008.3	510.4	301.9
82.5°	199.2	211.6	217.8	233.4	249.0	208.5	208.5	395.2	426.4	227.2	161.8
85°	108.9	112.0	161.8	174.3	183.6	124.5	140.0	196.1	211.6	99.6	80.9
87.5°	31.1	34.2	77.8	96.5	87.1	52.9	59.1	74.7	74.7	28.0	21.8
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°	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2
2.5°	1002.1	977.2	955.4	939.9	924.3	915.0	911.8	905.6	905.6	908.7
5°	1014.5	971.0	936.7	918.1	905.6	899.4	896.3	896.3	899.4	899.4
7.5°	1045.7	980.3	949.2	933.6	921.2	915.0	915.0	911.8	915.0	915.0
10°	1089.2	1008.3	974.1	955.4	946.1	936.7	933.6	930.5	930.5	930.5
12.5°	1135.9	1039.4	1002.1	980.3	964.7	952.3	946.1	939.9	936.7	936.7
15°	1179.5	1070.6	1020.8	995.9	974.1	955.4	943.0	933.6	930.5	930.5
17.5°	1226.2	1092.3	1033.2	999.0	971.0	946.1	930.5	918.1	911.8	911.8
20°	1276.0	1107.9	1033.2	989.6	952.3	927.4	908.7	896.3	883.8	883.8
22.5°	1316.4	1114.1	1020.8	967.9	930.5	899.4	880.7	865.2	855.8	855.8
25°	1350.6	1107.9	992.8	933.6	890.1	862.1	843.4	830.9	821.6	821.6
27.5°	1372.4	1083.0	958.5	896.3	855.8	827.8	815.4	802.9	796.7	796.7
30°	1384.9	1051.9	915.0	855.8	815.4	799.8	793.6	781.1	771.8	768.7
32.5°	1391.1	1005.2	871.4	815.4	787.4	781.1	781.1	765.6	753.1	750.0
35°	1384.9	955.4	827.8	781.1	771.8	774.9	768.7	750.0	734.5	728.2
37.5°	1375.5	896.3	781.1	756.2	765.6	771.8	753.1	728.2	703.3	697.1
40°	1369.3	843.4	743.8	731.3	759.4	762.5	728.2	681.5	662.9	656.7
42.5°	1400.4	790.5	709.6	712.7	743.8	746.9	684.7	662.9	650.4	647.3
45°	1506.3	743.8	681.5	700.2	725.1	712.7	662.9	659.8	650.4	647.3
47.5°	1587.2	709.6	669.1	690.9	709.6	666.0	659.8	656.7	647.3	644.2
50°	1615.2	687.8	666.0	684.7	687.8	644.2	653.5	653.5	644.2	641.1
52.5°	1618.3	675.3	672.2	681.5	653.5	634.9	647.3	647.3	638.0	634.9
55°	1630.7	669.1	675.3	681.5	616.2	622.4	634.9	638.0	628.6	625.5
57.5°	1605.8	659.8	681.5	684.7	600.6	610.0	622.4	622.4	622.4	622.4
60°	1509.4	641.1	678.4	678.4	588.2	594.4	606.9	613.1	616.2	616.2
62.5°	1332.0	603.7	659.8	659.8	575.7	582.0	597.5	597.5	606.9	606.9
65°	1107.9	550.8	622.4	619.3	563.3	569.5	588.2	582.0	597.5	600.6
67.5°	924.3	485.5	566.4	572.6	550.8	566.4	578.8	557.1	588.2	588.2
70°	737.6	407.7	491.7	519.7	529.1	569.5	560.2	525.9	566.4	557.1
72.5°	572.6	345.4	404.6	454.4	504.2	566.4	519.7	482.4	507.3	491.7
75°	417.0	286.3	333.0	376.6	469.9	557.1	479.3	423.2	423.2	417.0
77.5°	292.5	233.4	267.6	298.8	435.7	532.2	429.5	364.1	348.6	345.4
80°	199.2	183.6	211.6	230.3	385.9	482.4	370.3	301.9	273.9	267.6
82.5°	130.7	130.7	143.2	155.6	298.8	401.5	289.4	224.1	289.4	277.0
85°	74.7	77.8	77.8	90.3	164.9	283.2	205.4	224.1	133.8	124.5
87.5°	24.9	24.9	24.9	24.9	34.2	115.1	87.1	80.9	31.1	28.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)