

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: P573536

Luminaire Tested: **ARCH-S-PA2-90-727-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573536
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-PA2-90-727-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10775 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

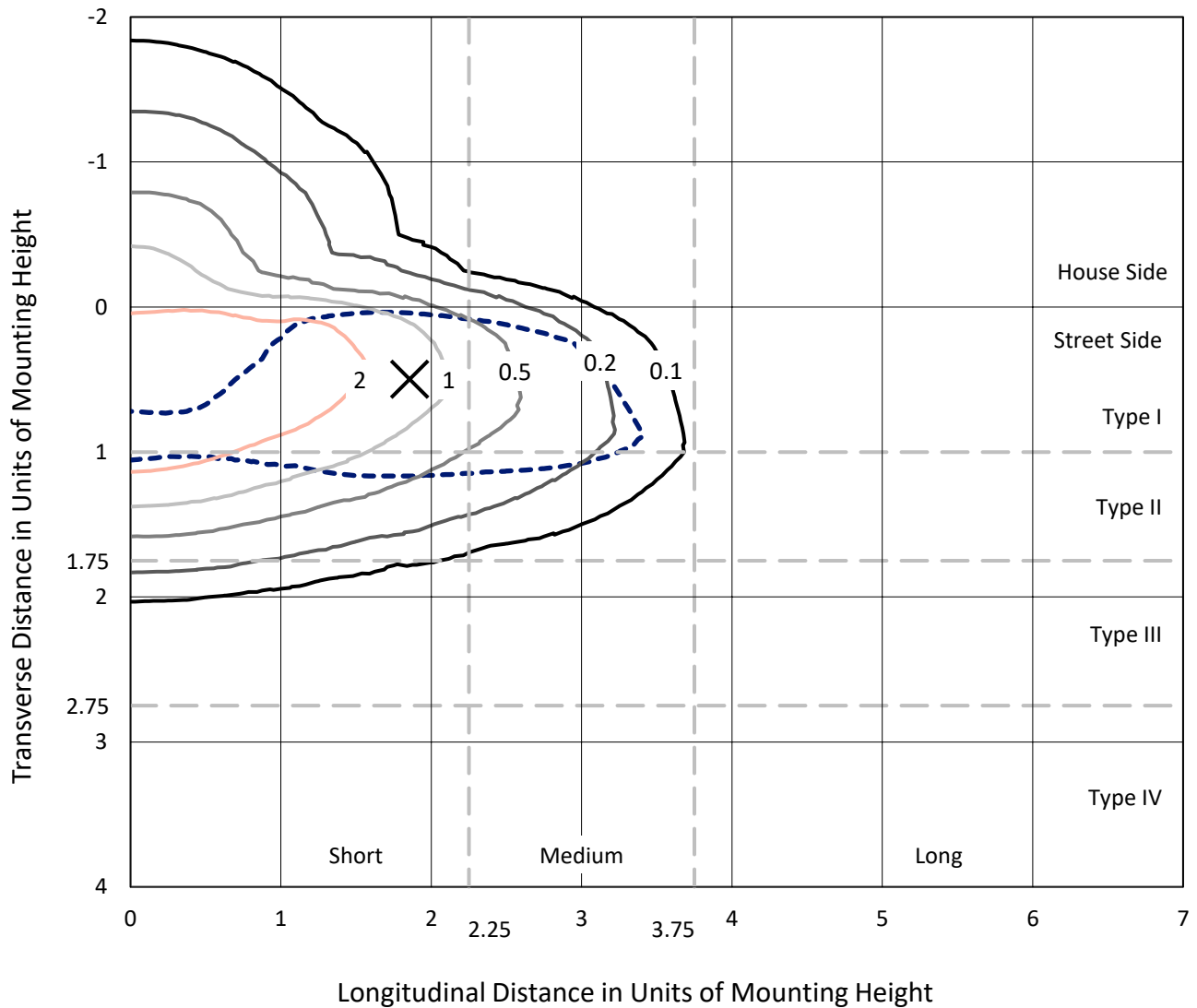
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

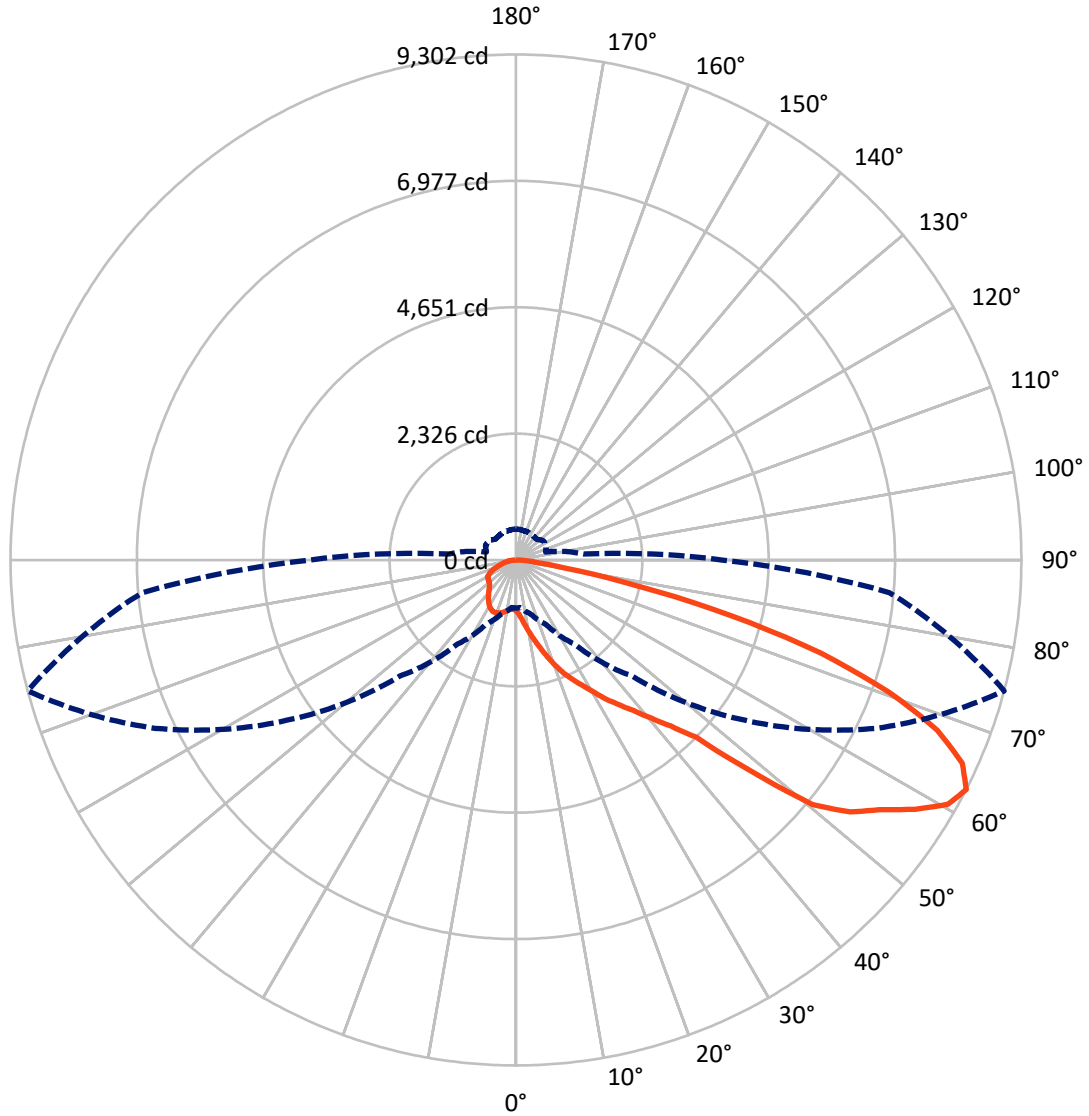
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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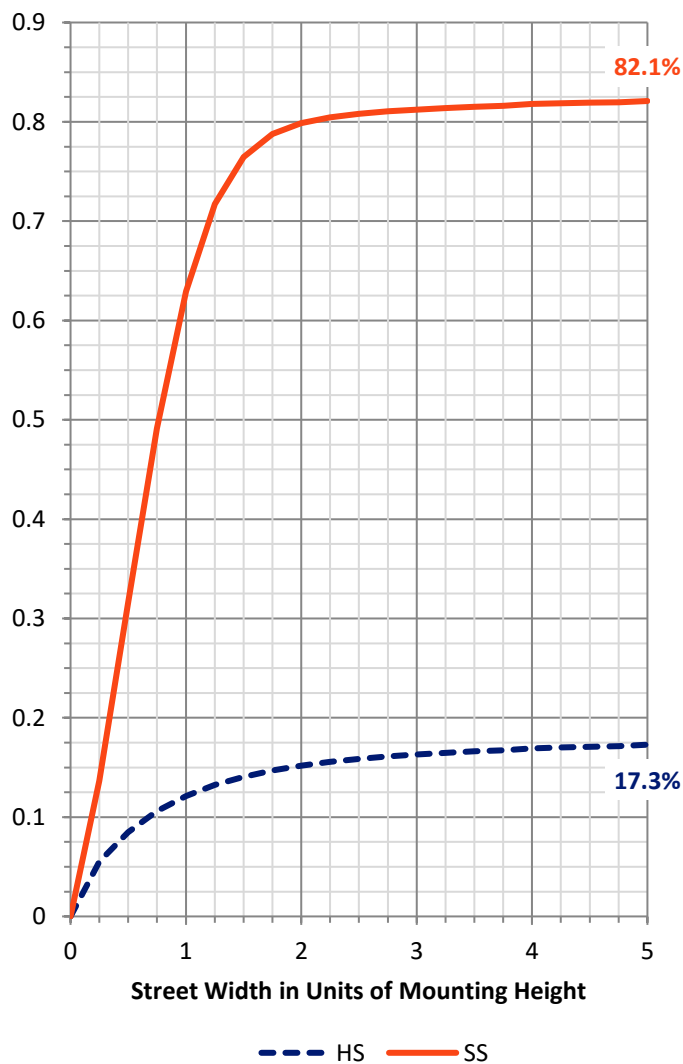
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1900.4	0.0	1900.4
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	8874.6	0.0	8874.6
	% Fixture	82.4	0.0	82.4
Total	Lumens	10775.0	0.0	10775.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	1.0
10°-20°	445.9	4.1
20°-30°	882.1	8.2
30°-40°	1470.3	13.6
40°-50°	2169.7	20.1
50°-60°	2608.1	24.2
60°-70°	2027.0	18.8
70°-80°	896.7	8.3
80°-90°	162.3	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°	10775.0	100.0
0°-180°	10775.0	100.0

Coefficient of Utilization

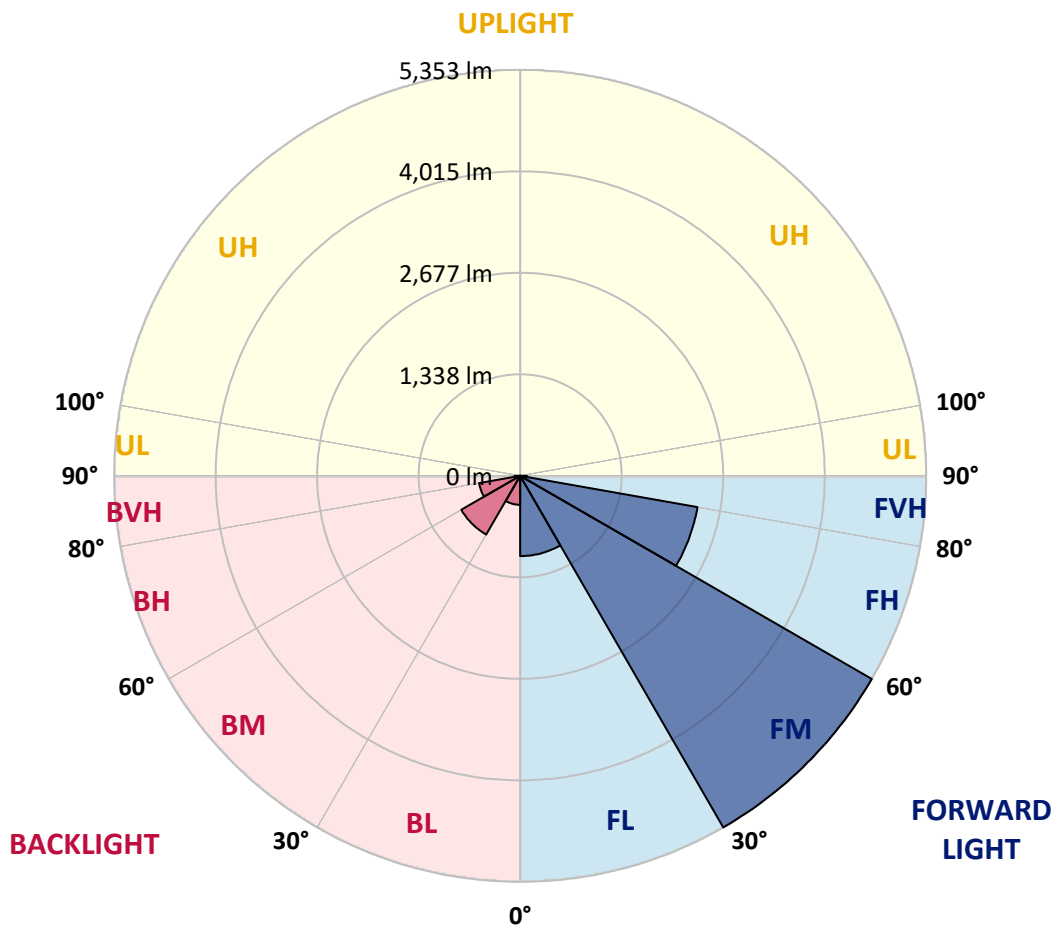


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1058.4	9.8			
FM (30°-60°)	5353.0	49.7			
FH (60°-80°)	2373.9	22.0			G2/5000
FVH (80°-90°)	89.2	0.8			G1/100
BL (0°-30°)	382.4	3.5	B1/500		
BM (30°-60°)	895.1	8.3	B1/1000		
BH (60°-80°)	549.8	5.1	B2/1000		G2/1000
BVH (80°-90°)	73.1	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2
2.5°	1200.9	1166.0	1166.0	1128.2	1131.1	1099.2	1064.3	1029.4	991.6	962.5	947.9
5°	1570.2	1544.0	1535.3	1491.7	1421.9	1343.4	1259.1	1171.8	1081.7	1011.9	977.0
7.5°	1916.2	1895.9	1884.3	1834.8	1738.9	1654.5	1520.8	1360.9	1206.7	1075.9	1023.5
10°	2172.1	2157.6	2134.3	2111.1	2041.3	1968.6	1802.8	1576.0	1349.2	1154.4	1075.9
12.5°	2358.2	2337.9	2337.9	2335.0	2288.4	2221.6	2067.5	1823.2	1515.0	1241.6	1134.0
15°	2483.3	2480.4	2489.1	2506.5	2494.9	2451.3	2297.2	2050.0	1683.6	1340.5	1200.9
17.5°	2576.3	2564.7	2582.1	2628.7	2663.6	2646.1	2518.2	2268.1	1869.7	1448.1	1273.6
20°	2678.1	2654.8	2678.1	2736.2	2779.9	2806.0	2745.0	2477.5	2070.4	1564.4	1343.4
22.5°	2872.9	2870.0	2858.4	2875.8	2904.9	2951.4	2916.5	2689.7	2265.2	1680.7	1424.8
25°	3221.9	3189.9	3157.9	3120.1	3088.1	3102.6	3073.6	2887.5	2442.6	1808.7	1494.6
27.5°	3611.5	3576.6	3518.4	3425.4	3338.2	3285.8	3224.8	3059.0	2614.1	1925.0	1561.5
30°	3969.2	3957.5	3870.3	3768.5	3617.3	3521.4	3405.0	3256.7	2820.6	2052.9	1631.3
32.5°	4303.6	4280.3	4193.1	4085.5	3908.1	3800.5	3640.6	3471.9	3056.1	2209.9	1704.0
35°	4591.4	4568.2	4466.4	4329.7	4175.6	4082.6	3899.4	3663.8	3271.3	2346.6	1765.0
37.5°	4809.5	4783.3	4687.4	4553.6	4417.0	4373.3	4216.3	3908.1	3515.5	2518.2	1840.6
40°	4931.6	4899.7	4835.7	4742.6	4629.2	4608.9	4542.0	4210.5	3823.8	2727.5	1951.1
42.5°	4946.2	4917.1	4882.2	4873.5	4864.8	4882.2	4914.2	4553.6	4175.6	3006.7	2114.0
45°	4818.2	4800.8	4803.7	4902.6	5039.2	5199.2	5391.1	5059.6	4649.6	3538.8	2480.4
47.5°	4544.9	4536.2	4600.2	4765.9	5071.2	5434.7	5978.5	5926.1	5772.0	4396.6	2951.4
50°	4102.9	4088.4	4225.0	4486.7	4922.9	5513.2	6373.9	6946.8	7074.7	5062.5	3259.7
52.5°	3469.0	3486.5	3698.7	4056.4	4582.7	5428.9	6536.7	7365.5	7702.8	5553.9	3495.2
55°	2820.6	2794.4	2986.3	3428.3	4079.7	5120.6	6568.7	7606.8	8109.9	6007.5	3724.9
57.5°	2055.8	2119.8	2323.3	2724.6	3431.2	4562.3	6382.6	7772.6	8656.5	6461.1	3937.2
60°	1392.8	1392.8	1573.1	1974.4	2651.9	3884.8	5885.4	7711.5	9133.4	6815.9	3983.7
62.5°	886.9	878.2	1023.5	1308.5	1898.8	3018.3	5141.0	7327.7	9302.1	6900.2	3788.9
65°	561.2	572.8	625.2	799.6	1215.5	2143.1	4126.2	6562.9	9025.8	6705.4	3448.7
67.5°	450.7	453.6	479.8	552.5	747.3	1375.4	3059.0	5507.4	8365.8	6214.0	3050.3
70°	398.4	404.2	410.0	436.2	511.8	869.4	2009.3	4434.4	7284.1	5359.1	2622.8
72.5°	363.5	369.3	375.1	380.9	421.6	567.0	1186.4	3361.4	5876.7	4117.5	2000.6
75°	334.4	340.2	340.2	343.1	366.4	421.6	651.3	2317.5	4091.3	2561.8	1247.4
77.5°	299.5	302.4	302.4	308.2	331.5	331.5	404.2	1433.5	2271.0	1160.2	631.0
80°	253.0	258.8	258.8	267.5	290.8	255.9	270.4	732.8	942.1	476.9	282.1
82.5°	186.1	197.7	203.5	218.1	232.6	194.8	194.8	369.3	398.4	212.3	151.2
85°	101.8	104.7	151.2	162.8	171.6	116.3	130.9	183.2	197.7	93.0	75.6
87.5°	29.1	32.0	72.7	90.1	81.4	49.4	55.2	69.8	69.8	26.2	20.4
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°	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2
2.5°	936.3	913.1	892.7	878.2	863.6	854.9	852.0	846.2	846.2	849.1
5°	947.9	907.2	875.2	857.8	846.2	840.4	837.4	837.4	840.4	840.4
7.5°	977.0	916.0	886.9	872.3	860.7	854.9	854.9	852.0	854.9	854.9
10°	1017.7	942.1	910.1	892.7	884.0	875.2	872.3	869.4	869.4	869.4
12.5°	1061.3	971.2	936.3	916.0	901.4	889.8	884.0	878.2	875.2	875.2
15°	1102.1	1000.3	953.8	930.5	910.1	892.7	881.1	872.3	869.4	869.4
17.5°	1145.7	1020.6	965.4	933.4	907.2	884.0	869.4	857.8	852.0	852.0
20°	1192.2	1035.2	965.4	924.7	889.8	866.5	849.1	837.4	825.8	825.8
22.5°	1230.0	1041.0	953.8	904.3	869.4	840.4	822.9	808.4	799.6	799.6
25°	1262.0	1035.2	927.6	872.3	831.6	805.5	788.0	776.4	767.7	767.7
27.5°	1282.3	1011.9	895.6	837.4	799.6	773.5	761.8	750.2	744.4	744.4
30°	1294.0	982.8	854.9	799.6	761.8	747.3	741.5	729.9	721.1	718.2
32.5°	1299.8	939.2	814.2	761.8	735.7	729.9	729.9	715.3	703.7	700.8
35°	1294.0	892.7	773.5	729.9	721.1	724.0	718.2	700.8	686.2	680.4
37.5°	1285.3	837.4	729.9	706.6	715.3	721.1	703.7	680.4	657.2	651.3
40°	1279.4	788.0	695.0	683.3	709.5	712.4	680.4	636.8	619.4	613.5
42.5°	1308.5	738.6	663.0	665.9	695.0	697.9	639.7	619.4	607.7	604.8
45°	1407.4	695.0	636.8	654.3	677.5	665.9	619.4	616.5	607.7	604.8
47.5°	1483.0	663.0	625.2	645.5	663.0	622.3	616.5	613.5	604.8	601.9
50°	1509.2	642.6	622.3	639.7	642.6	601.9	610.6	610.6	601.9	599.0
52.5°	1512.1	631.0	628.1	636.8	610.6	593.2	604.8	604.8	596.1	593.2
55°	1523.7	625.2	631.0	636.8	575.7	581.6	593.2	596.1	587.4	584.5
57.5°	1500.4	616.5	636.8	639.7	561.2	569.9	581.6	581.6	581.6	581.6
60°	1410.3	599.0	633.9	633.9	549.6	555.4	567.0	572.8	575.7	575.7
62.5°	1244.5	564.1	616.5	616.5	537.9	543.8	558.3	558.3	567.0	567.0
65°	1035.2	514.7	581.6	578.7	526.3	532.1	549.6	543.8	558.3	561.2
67.5°	863.6	453.6	529.2	535.0	514.7	529.2	540.9	520.5	549.6	549.6
70°	689.2	380.9	459.4	485.6	494.3	532.1	523.4	491.4	529.2	520.5
72.5°	535.0	322.8	378.0	424.5	471.1	529.2	485.6	450.7	474.0	459.4
75°	389.6	267.5	311.1	351.8	439.1	520.5	447.8	395.5	395.5	389.6
77.5°	273.3	218.1	250.1	279.1	407.1	497.2	401.3	340.2	325.7	322.8
80°	186.1	171.6	197.7	215.2	360.6	450.7	346.0	282.1	255.9	250.1
82.5°	122.1	122.1	133.8	145.4	279.1	375.1	270.4	209.4	270.4	258.8
85°	69.8	72.7	72.7	84.3	154.1	264.6	191.9	209.4	125.0	116.3
87.5°	23.3	23.3	23.3	23.3	32.0	107.6	81.4	75.6	29.1	26.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)