

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: P236822

Luminaire Tested: **ARCH-L-AF72-90-D-U-T2R-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29635)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-90-D-U-T2R-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12734.2 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

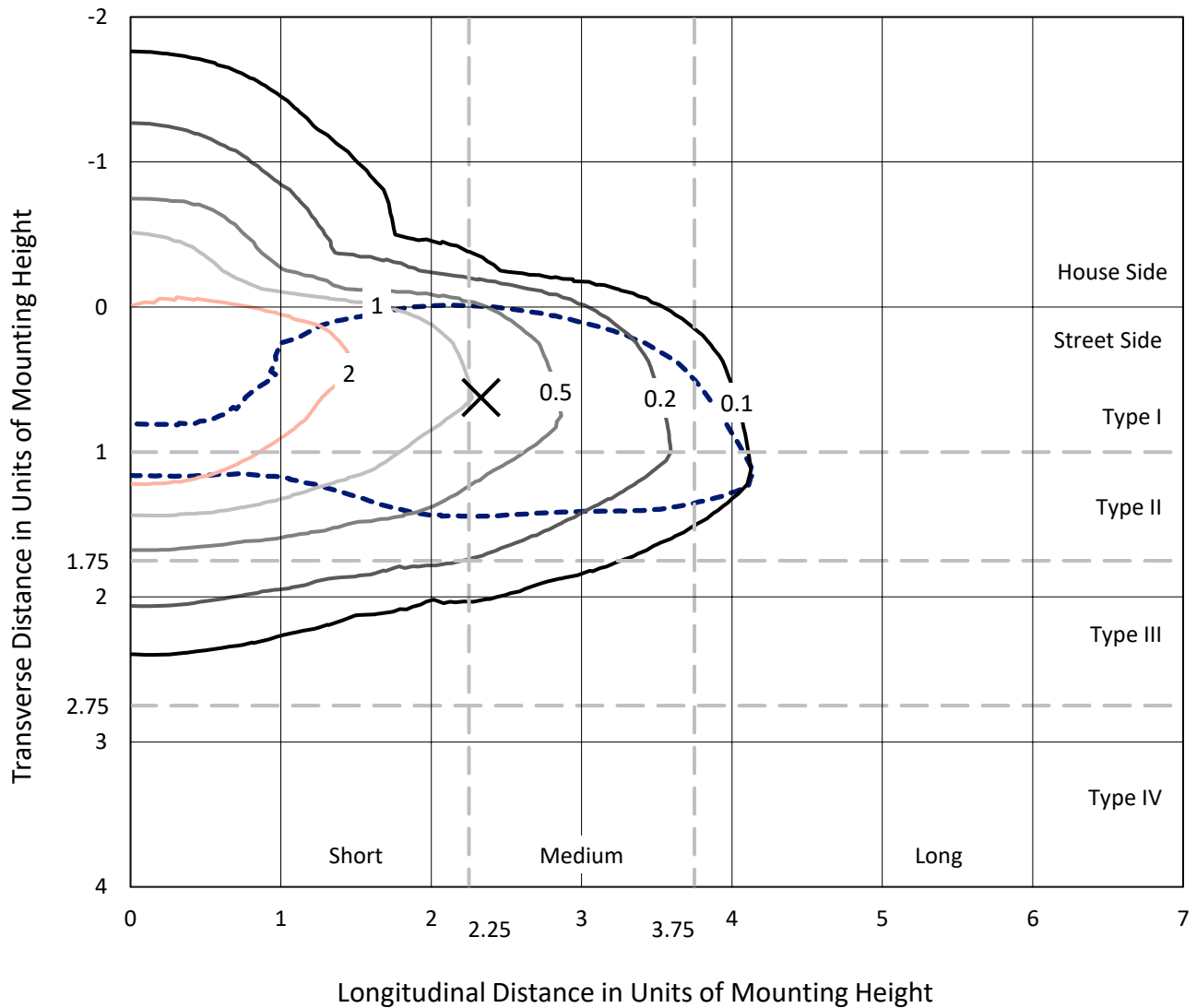
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

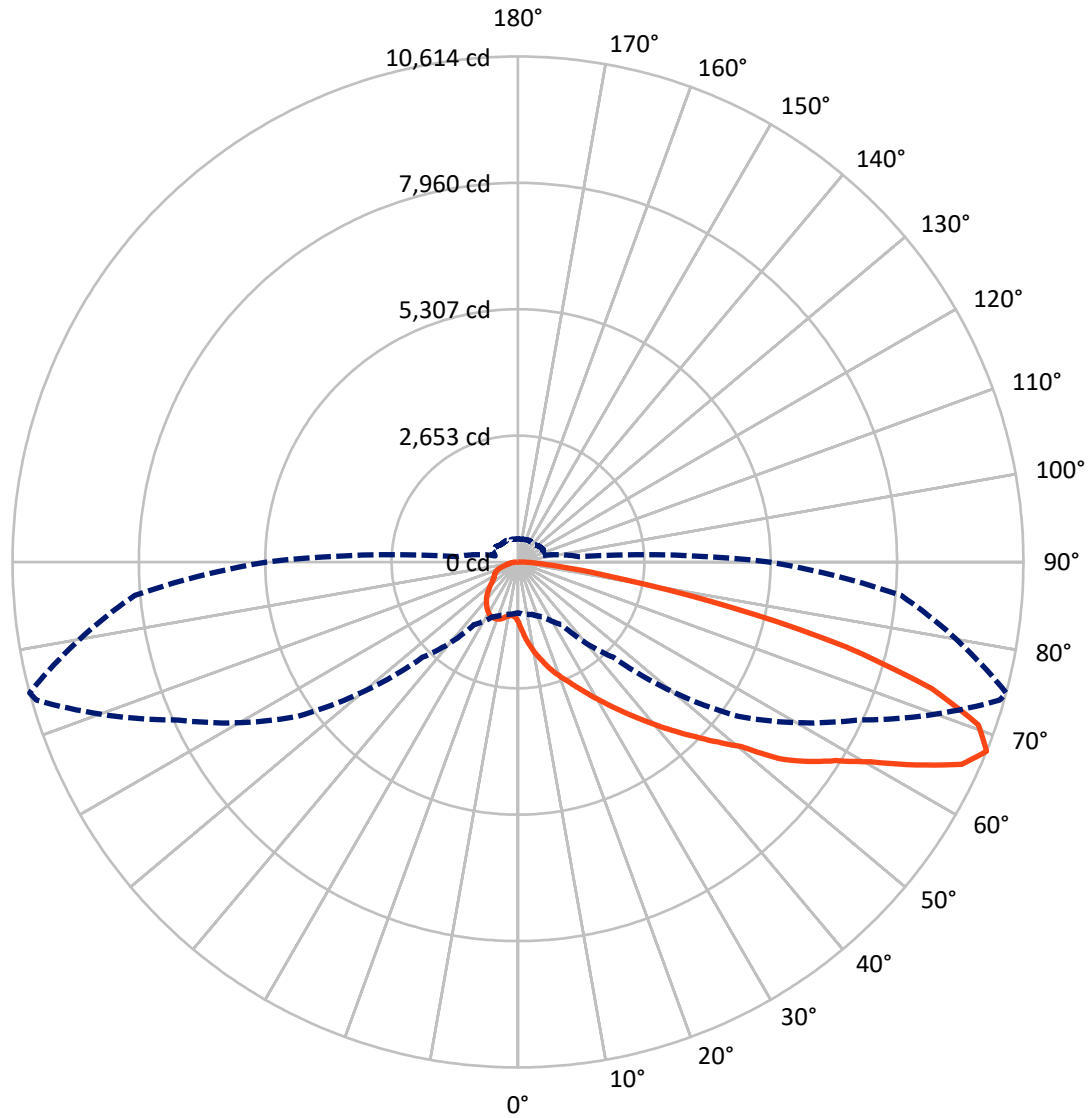
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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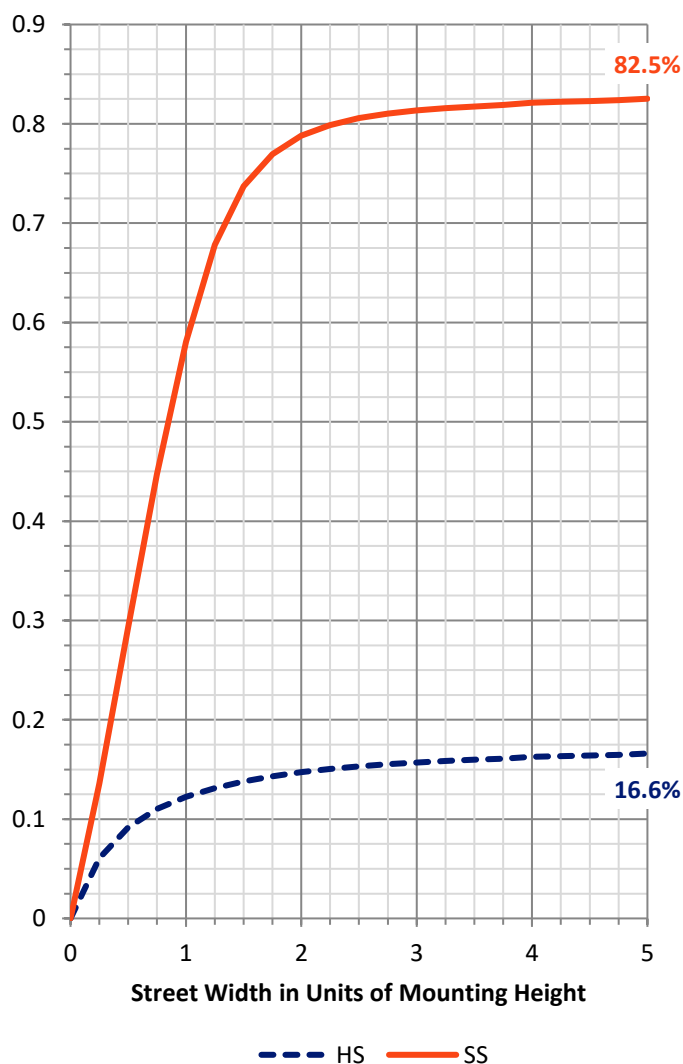
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2174.5	0.0	2174.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	10559.6	0.0	10559.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	12734.2	0.0	12734.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	1.2
10°-20°	535.7	4.2
20°-30°	977.1	7.7
30°-40°	1603.8	12.6
40°-50°	2319.4	18.2
50°-60°	2733.4	21.5
60°-70°	2656.2	20.9
70°-80°	1476.5	11.6
80°-90°	283.9	2.2
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°	12734.2	100.0
0°-180°	12734.2	100.0

Coefficient of Utilization

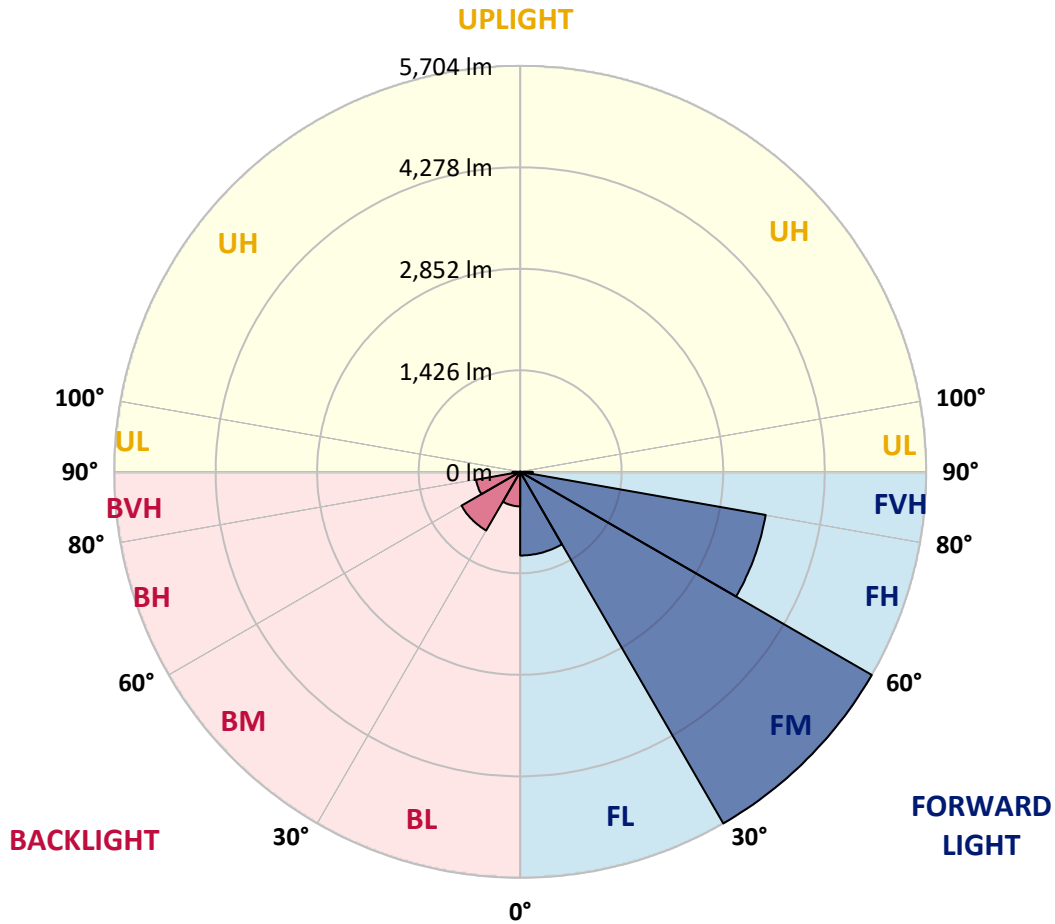


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1175.7	9.2			
FM (30°-60°)	5704.2	44.8			
FH (60°-80°)	3503.0	27.5			G2/5000
FVH (80°-90°)	176.7	1.4			G2/225
BL (0°-30°)	485.4	3.8	B1/500		
BM (30°-60°)	952.3	7.5	B1/1000		
BH (60°-80°)	629.6	4.9	B2/1000		G2/1000
BVH (80°-90°)	107.2	0.8			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8
2.5°	1788.9	1794.2	1783.5	1759.6	1724.9	1661.2	1605.2	1506.8	1418.8	1408.3	1315.1
5°	2103.0	2108.3	2095.0	2065.8	2028.5	1959.3	1882.1	1754.2	1613.2	1586.6	1389.6
7.5°	2318.7	2321.3	2305.4	2276.1	2246.8	2177.5	2100.4	1956.7	1783.5	1762.4	1485.5
10°	2502.4	2507.7	2486.4	2467.7	2435.8	2366.5	2286.7	2135.0	1956.7	1927.4	1583.9
12.5°	2672.7	2678.1	2664.8	2648.8	2638.2	2574.2	2486.4	2305.4	2113.7	2081.7	1701.0
15°	2787.2	2792.5	2795.2	2816.4	2829.9	2784.6	2696.7	2499.8	2284.1	2254.8	1839.5
17.5°	2755.3	2768.5	2808.5	2885.7	2968.2	2970.9	2898.9	2691.4	2451.8	2419.9	1980.6
20°	2662.1	2672.7	2720.7	2837.8	3000.2	3093.3	3088.0	2885.7	2608.9	2574.2	2111.0
22.5°	2739.2	2752.6	2752.6	2824.5	2984.2	3157.3	3226.4	3077.4	2765.9	2734.0	2241.5
25°	3069.4	3077.4	3021.4	2992.2	3050.7	3210.5	3340.9	3285.0	2957.5	2920.3	2382.6
27.5°	3529.9	3516.6	3447.4	3330.2	3266.5	3309.0	3442.1	3482.0	3178.6	3133.2	2529.1
30°	3987.9	3979.9	3900.0	3742.9	3599.1	3508.7	3553.8	3657.7	3418.1	3364.8	2670.1
32.5°	4416.4	4403.1	4315.3	4131.5	3969.2	3801.4	3713.6	3817.4	3673.8	3612.4	2827.2
35°	4810.3	4775.8	4688.0	4496.2	4328.6	4168.8	3953.2	3969.2	3950.6	3886.7	3000.2
37.5°	5129.8	5103.3	5007.4	4829.0	4650.6	4499.0	4272.7	4142.2	4248.6	4187.5	3199.8
40°	5412.0	5382.7	5284.3	5105.9	4940.8	4797.1	4618.7	4352.6	4584.1	4514.9	3423.4
42.5°	5625.0	5603.7	5523.8	5348.1	5188.4	5057.9	4970.1	4618.7	4932.8	4866.3	3668.4
45°	5739.5	5718.2	5675.6	5534.5	5388.1	5286.9	5294.9	4935.6	5297.6	5241.6	3958.6
47.5°	5598.3	5614.4	5651.7	5625.0	5534.5	5486.6	5585.2	5262.9	5704.9	5651.7	4272.7
50°	5220.4	5236.4	5385.4	5569.1	5601.0	5659.6	5845.9	5640.9	6136.1	6093.5	4661.3
52.5°	4291.2	4379.1	4791.8	5231.0	5531.8	5774.1	6136.1	6202.6	6862.9	6862.9	5348.1
55°	3242.4	3319.7	3790.9	4557.5	5262.9	5784.7	6349.0	6583.3	7387.3	7398.0	5707.4
57.5°	2627.4	2675.4	2907.0	3692.3	4698.5	5651.7	6602.0	6910.7	7823.8	7871.8	6170.8
60°	2132.3	2159.0	2310.8	2856.5	3918.6	5292.2	6783.1	7379.4	8446.9	8513.4	6761.7
62.5°	1714.4	1741.0	1842.2	2169.6	3074.7	4618.7	6751.0	7866.4	9277.4	9386.6	7536.3
65°	1368.4	1397.7	1464.2	1666.4	2278.7	3782.9	6423.7	8116.8	10137.3	10243.7	8050.1
67.5°	1067.5	1094.1	1139.3	1272.5	1605.2	2829.9	5648.9	7853.1	10523.2	10613.8	8076.8
70°	806.7	819.9	857.1	942.4	1147.3	1879.5	4421.7	6969.3	10177.2	10259.7	7544.4
72.5°	625.6	622.9	644.2	686.8	801.3	1293.7	2931.0	5667.6	8997.8	9083.0	6436.9
75°	511.2	508.5	521.8	535.1	580.3	867.8	1730.3	4267.3	7262.1	7099.7	4829.0
77.5°	431.2	428.7	442.0	444.5	463.2	599.0	985.0	2808.5	4845.0	4565.5	2720.7
80°	364.7	362.0	378.0	383.4	396.6	439.2	567.0	1520.1	2433.2	2305.4	1299.1
82.5°	274.2	284.8	314.1	327.4	343.4	324.8	351.4	670.9	1128.7	1078.2	564.4
85°	133.1	157.2	236.9	263.6	282.2	205.0	239.6	316.8	508.5	484.4	228.9
87.5°	45.3	39.9	141.1	167.7	183.7	93.2	133.1	175.7	210.4	191.6	71.9
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°	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8
2.5°	1275.2	1235.1	1176.6	1131.4	1102.1	1078.2	1067.5	1064.8	1059.5	1056.9	1056.9
5°	1301.8	1229.9	1139.3	1091.5	1078.2	1067.5	1072.8	1075.4	1075.4	1075.4	1075.4
7.5°	1341.7	1240.5	1131.4	1099.4	1096.8	1096.8	1112.8	1120.8	1126.0	1126.0	1126.0
10°	1394.9	1259.2	1144.7	1118.0	1126.0	1131.4	1150.1	1160.7	1166.1	1168.6	1171.4
12.5°	1466.8	1299.1	1171.4	1150.1	1160.7	1163.3	1176.6	1181.9	1187.3	1190.0	1190.0
15°	1562.6	1357.6	1213.9	1187.3	1190.0	1187.3	1187.3	1181.9	1179.4	1179.4	1184.6
17.5°	1661.2	1413.6	1251.2	1213.9	1203.3	1181.9	1166.1	1152.6	1144.7	1139.3	1142.1
20°	1759.6	1464.2	1272.5	1219.3	1190.0	1155.3	1126.0	1107.5	1096.8	1086.1	1091.5
22.5°	1858.2	1512.0	1280.5	1203.3	1160.7	1110.1	1078.2	1048.9	1024.9	1008.9	1011.6
25°	1967.3	1565.3	1280.5	1184.6	1120.8	1067.5	1027.6	979.6	945.1	931.8	937.0
27.5°	2076.5	1610.6	1267.2	1150.1	1075.4	1022.2	963.6	907.7	886.5	878.5	881.1
30°	2185.6	1645.2	1237.9	1107.5	1027.6	969.0	891.8	854.5	827.8	806.7	809.3
32.5°	2294.8	1669.2	1197.9	1054.3	977.0	902.5	838.6	796.0	748.1	721.4	724.1
35°	2419.9	1687.7	1150.1	1001.0	921.0	843.9	796.0	726.8	676.2	654.9	649.5
37.5°	2550.3	1701.0	1099.4	942.4	865.3	801.3	753.4	668.2	620.3	591.0	588.4
40°	2691.4	1706.4	1038.2	881.1	811.9	774.6	697.5	633.6	551.1	532.4	532.4
42.5°	2859.1	1703.8	977.0	819.9	753.4	713.5	657.5	628.2	556.3	537.8	527.0
45°	3050.7	1703.8	910.4	748.1	694.8	636.2	612.3	593.6	545.8	553.7	559.1
47.5°	3269.0	1698.4	830.6	689.5	647.0	596.3	583.0	543.0	524.5	529.8	535.1
50°	3569.8	1706.4	758.7	641.6	612.3	569.7	553.7	532.4	524.5	527.0	524.5
52.5°	3987.9	1679.8	689.5	612.3	585.6	529.8	529.8	527.0	529.8	527.0	527.0
55°	4216.8	1621.2	638.9	596.3	567.0	511.2	521.8	527.0	532.4	529.8	529.8
57.5°	4541.6	1581.3	599.0	585.6	556.3	505.8	516.5	527.0	529.8	527.0	527.0
60°	4924.9	1554.6	572.3	588.4	548.4	505.8	519.1	527.0	524.5	521.8	521.8
62.5°	5369.4	1544.1	553.7	596.3	540.4	508.5	519.1	527.0	516.5	513.7	513.7
65°	5537.2	1448.2	529.8	601.6	545.8	508.5	516.5	519.1	505.8	503.1	500.5
67.5°	5279.0	1283.1	495.2	591.0	561.7	508.5	508.5	505.8	489.8	487.2	481.9
70°	4701.2	1064.8	442.0	556.3	572.3	511.2	497.7	484.4	468.5	468.5	457.9
72.5°	3849.4	838.6	372.7	495.2	564.4	519.1	476.5	457.9	439.2	439.2	428.7
75°	2773.9	625.6	298.2	412.7	529.8	516.5	449.9	425.9	404.6	402.0	388.6
77.5°	1581.3	439.2	242.2	322.1	471.2	503.1	425.9	388.6	364.7	356.7	348.7
80°	811.9	295.5	197.0	252.9	391.3	465.9	407.3	346.1	319.5	306.2	292.9
82.5°	386.0	197.0	151.8	186.4	295.5	407.3	383.4	298.2	268.9	252.9	236.9
85°	173.0	117.1	101.2	119.7	210.4	316.8	338.0	245.0	210.4	263.6	194.4
87.5°	55.9	53.2	53.2	55.9	101.2	138.4	247.6	181.1	167.7	138.4	117.1
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)