

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: P573279

Luminaire Tested: **ARCH-S-PA2-50-830-U-T3**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573279  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-50-830-U-T3  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 3000K, 520mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6369 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

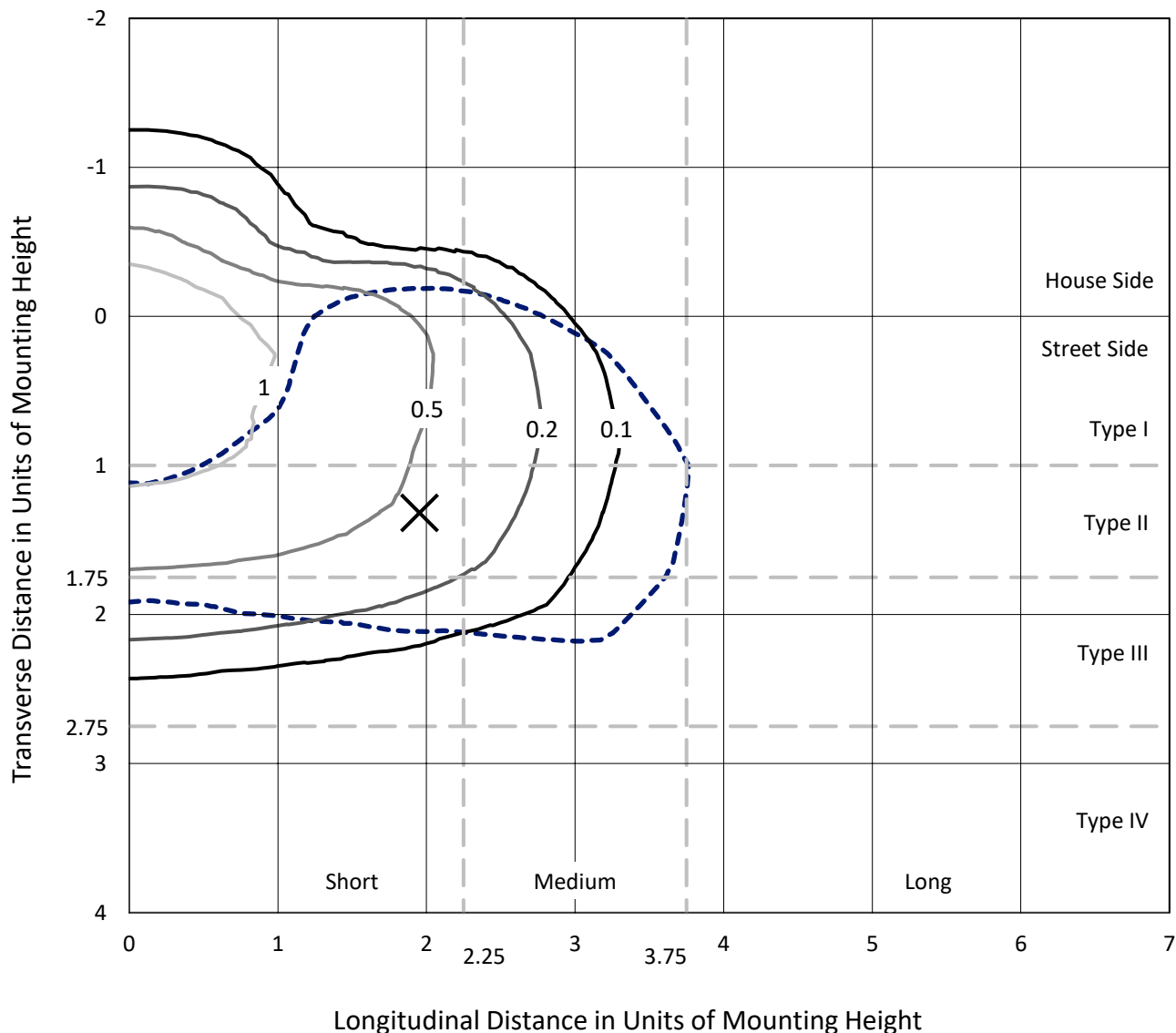
Input Watts (W): 53.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

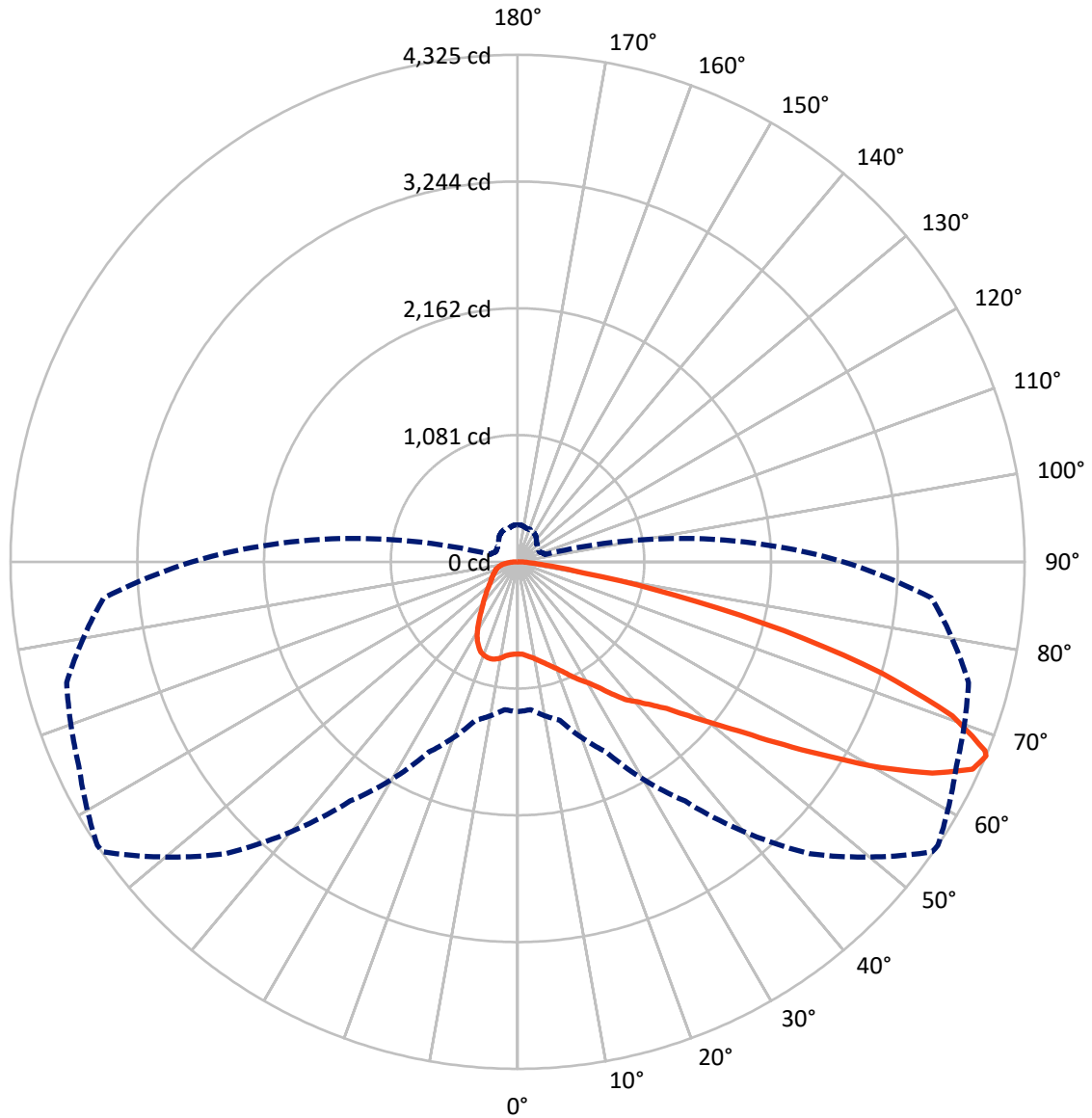
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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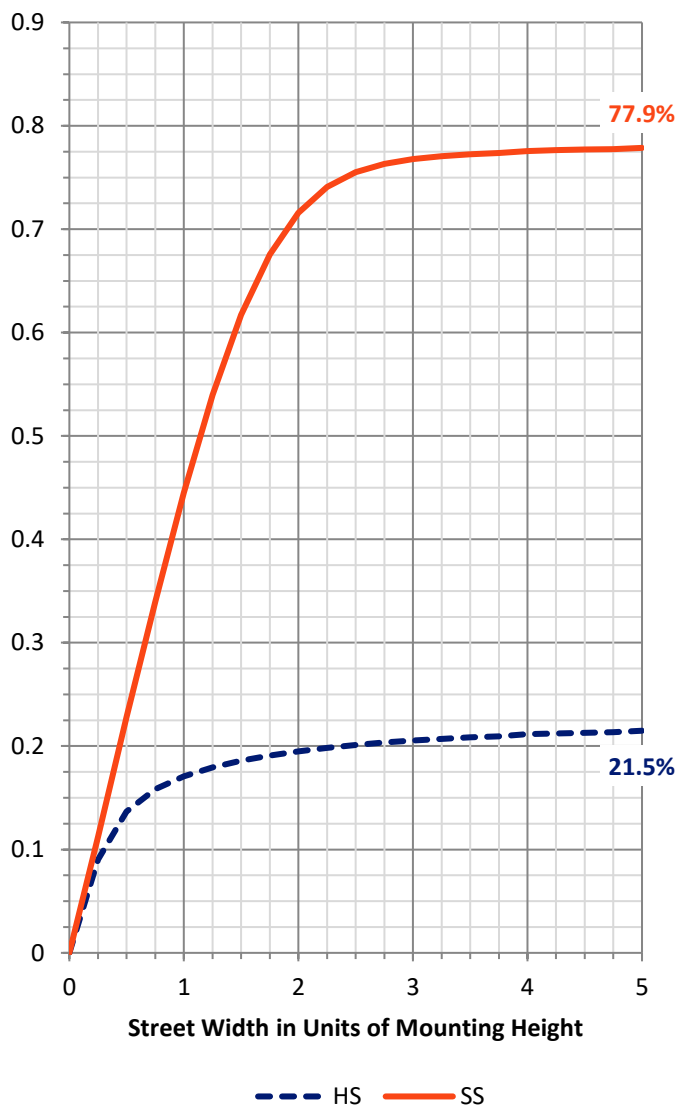
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1393.4	0.0	1393.4
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	4975.6	0.0	4975.6
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	6369.0	0.0	6369.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.4	1.2
10°-20°	248.1	3.9
20°-30°	431.8	6.8
30°-40°	633.1	9.9
40°-50°	926.3	14.5
50°-60°	1447.7	22.7
60°-70°	1720.6	27.0
70°-80°	783.6	12.3
80°-90°	100.5	1.6
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°	6369.0	100.0
0°-180°	6369.0	100.0

**Coefficient of Utilization**



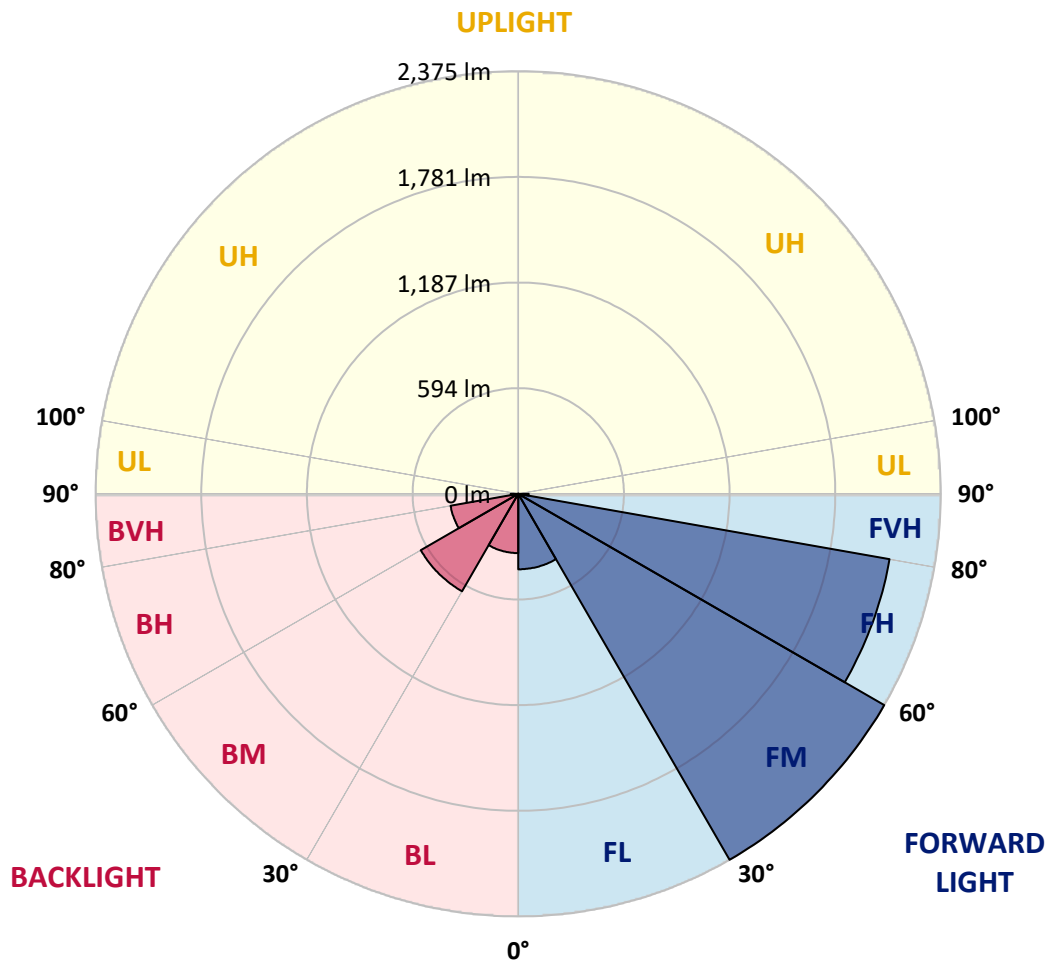
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	424.2	6.7			
FM (30°-60°)	2374.5	37.3			
FH (60°-80°)	2118.2	33.3			G2/5000
FVH (80°-90°)	58.6	0.9			G1/100
BL (0°-30°)	333.0	5.2	B1/500		
BM (30°-60°)	632.5	9.9	B1/1000		
BH (60°-80°)	386.0	6.1	B1/500		G1/500
BVH (80°-90°)	41.9	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3
2.5°	798.4	794.9	793.2	794.9	793.2	789.8	791.5	789.8	788.0	786.3	786.3
5°	808.7	805.3	803.6	805.3	807.0	803.6	803.6	803.6	798.4	796.7	793.2
7.5°	815.6	810.5	810.5	813.9	817.4	819.1	822.5	820.8	815.6	812.2	805.3
10°	838.1	831.2	831.2	831.2	834.6	838.1	841.5	843.2	841.5	839.8	834.6
12.5°	872.5	865.6	865.6	865.6	865.6	863.9	869.1	870.8	874.3	874.3	865.6
15°	919.1	910.5	907.0	900.1	898.4	895.0	901.9	901.9	907.0	908.8	900.1
17.5°	963.9	953.6	950.1	943.2	936.3	927.7	934.6	936.3	946.7	948.4	934.6
20°	1010.5	1007.0	1001.9	991.5	979.5	970.8	977.7	976.0	984.6	988.1	970.8
22.5°	1070.8	1062.2	1058.8	1045.0	1031.2	1022.6	1022.6	1026.0	1034.6	1034.6	1008.8
25°	1143.3	1131.2	1122.6	1107.1	1089.8	1079.5	1081.2	1084.6	1096.7	1088.1	1048.4
27.5°	1232.9	1220.9	1208.8	1177.8	1160.5	1139.8	1138.1	1141.5	1160.5	1138.1	1086.4
30°	1317.4	1312.3	1301.9	1277.8	1250.2	1215.7	1200.2	1201.9	1215.7	1184.7	1119.1
32.5°	1389.9	1383.0	1377.8	1360.5	1341.6	1300.2	1279.5	1281.2	1279.5	1241.6	1158.8
35°	1476.1	1465.7	1462.3	1446.8	1422.6	1395.0	1386.4	1383.0	1372.6	1320.9	1210.5
37.5°	1558.8	1548.5	1543.3	1534.7	1515.7	1491.6	1491.6	1489.9	1469.2	1396.8	1262.3
40°	1657.1	1645.1	1629.5	1624.4	1608.9	1591.6	1577.8	1569.2	1533.0	1467.5	1362.3
42.5°	1776.1	1769.2	1760.6	1738.2	1714.0	1710.6	1670.9	1667.5	1641.6	1603.7	1503.7
45°	1946.8	1933.0	1921.0	1914.1	1884.8	1853.7	1798.5	1784.7	1784.7	1776.1	1669.2
47.5°	2119.3	2095.1	2112.4	2107.2	2100.3	2065.8	1958.9	1960.6	1957.2	1979.6	1912.3
50°	2234.8	2221.0	2269.3	2291.7	2340.0	2340.0	2186.5	2167.6	2181.4	2246.9	2160.7
52.5°	2324.5	2315.9	2371.0	2459.0	2602.1	2615.9	2457.3	2417.6	2436.6	2529.7	2495.2
55°	2396.9	2388.3	2452.1	2605.6	2834.9	2919.4	2769.4	2752.1	2714.2	2814.2	2824.6
57.5°	2440.0	2421.0	2517.6	2722.8	3024.6	3219.4	3134.9	3129.8	3041.8	3134.9	3181.5
60°	2374.5	2362.4	2495.2	2771.1	3178.1	3502.2	3564.3	3564.3	3407.4	3457.4	3514.3
62.5°	2162.4	2146.9	2286.5	2659.0	3197.0	3733.3	3990.2	3969.5	3759.2	3757.4	3707.4
65°	1758.9	1739.9	1896.8	2290.0	2957.3	3760.9	4278.2	4266.1	4023.0	3954.0	3719.5
67°	1277.8	1265.7	1400.2	1789.9	2491.7	3521.2	4314.4	4324.8	4128.2	3981.6	3545.3
67.5°	1146.7	1145.0	1257.1	1643.3	2355.5	3433.3	4290.3	4300.6	4126.5	3959.2	3476.4
70°	534.6	558.7	663.9	941.5	1588.2	2703.8	3893.7	3933.3	3905.7	3700.5	2928.0
72.5°	248.3	258.7	305.2	455.2	853.6	1743.4	3155.6	3250.5	3371.2	3174.6	2319.3
75°	153.5	156.9	182.8	236.2	401.8	838.1	2246.9	2350.3	2533.1	2388.3	1483.0
77.5°	120.7	122.4	139.7	169.0	234.5	360.4	1232.9	1362.3	1600.2	1412.3	746.7
80°	89.7	93.1	106.9	131.1	165.5	184.5	524.2	572.5	772.5	591.5	310.4
82.5°	65.5	69.0	82.8	94.8	115.5	117.3	213.8	225.9	331.1	239.7	134.5
85°	55.2	55.2	63.8	70.7	77.6	65.5	105.2	103.5	127.6	108.6	53.5
87.5°	25.9	27.6	60.4	44.8	37.9	27.6	31.0	32.8	39.7	43.1	20.7
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°	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3
2.5°	784.6	784.6	784.6	786.3	788.0	788.0	789.8	789.8	791.5	793.2	796.7
5°	791.5	791.5	789.8	791.5	794.9	796.7	800.1	803.6	807.0	810.5	812.2
7.5°	805.3	803.6	803.6	803.6	807.0	810.5	815.6	819.1	824.3	826.0	829.4
10°	831.2	827.7	827.7	829.4	831.2	826.0	824.3	822.5	827.7	831.2	834.6
12.5°	862.2	858.7	857.0	851.8	845.0	834.6	826.0	819.1	820.8	824.3	829.4
15°	895.0	888.1	884.6	872.5	855.3	832.9	819.1	810.5	810.5	810.5	815.6
17.5°	929.4	922.5	908.8	886.3	853.6	822.5	805.3	789.8	782.9	781.1	784.6
20°	962.2	951.9	929.4	895.0	843.2	801.8	779.4	753.6	743.2	736.3	739.8
22.5°	993.2	979.5	948.4	895.0	826.0	770.8	731.1	696.7	679.4	676.0	677.7
25°	1026.0	1008.8	967.4	884.6	788.0	724.2	669.1	632.9	610.4	607.0	612.2
27.5°	1058.8	1032.9	982.9	857.0	744.9	660.4	601.8	567.3	555.3	548.4	550.1
30°	1086.4	1062.2	998.4	819.1	686.3	586.3	532.8	517.3	508.7	505.2	505.2
32.5°	1122.6	1100.2	1008.8	774.3	617.3	519.0	484.6	472.5	465.6	457.0	458.7
35°	1167.4	1146.7	1003.6	717.3	551.8	474.2	446.6	429.4	413.9	401.8	400.1
37.5°	1227.8	1212.2	977.7	648.4	491.5	441.4	413.9	391.4	369.0	350.1	346.6
40°	1327.8	1291.6	939.8	572.5	450.1	415.6	382.8	355.2	327.6	306.9	301.8
42.5°	1455.4	1379.5	888.1	494.9	415.6	388.0	355.2	319.0	293.1	274.2	274.2
45°	1603.7	1474.4	826.0	436.3	379.4	360.4	320.7	289.7	274.2	262.1	260.4
47.5°	1779.6	1569.2	746.7	389.7	350.1	336.3	296.6	277.6	267.3	256.9	255.2
50°	2015.8	1696.8	688.0	350.1	320.7	308.7	289.7	274.2	263.8	256.9	255.2
52.5°	2286.5	1860.6	646.6	319.0	296.6	291.4	288.0	275.9	265.6	260.4	258.7
55°	2579.7	2062.4	607.0	293.1	277.6	284.5	291.4	279.4	272.5	265.6	262.1
57.5°	2855.6	2233.1	543.2	270.7	263.8	275.9	289.7	281.1	272.5	267.3	265.6
60°	3043.5	2319.3	455.2	250.0	250.0	263.8	284.5	272.5	263.8	265.6	265.6
62.5°	3103.9	2286.5	360.4	231.1	236.2	250.0	269.0	262.1	258.7	267.3	267.3
65°	3014.2	2153.8	288.0	215.5	222.4	232.8	260.4	267.3	277.6	296.6	298.3
67°	2779.7	1939.9	243.1	203.5	210.4	227.6	270.7	294.9	294.9	315.6	315.6
67.5°	2710.7	1867.5	236.2	200.0	208.7	227.6	275.9	301.8	294.9	319.0	319.0
70°	2203.8	1469.2	200.0	189.7	201.8	239.7	298.3	303.5	288.0	310.4	308.7
72.5°	1634.7	1062.2	182.8	179.3	188.0	225.9	296.6	291.4	269.0	275.9	270.7
75°	1010.5	615.6	169.0	165.5	170.7	200.0	274.2	265.6	239.7	234.5	229.3
77.5°	488.0	312.1	144.8	150.0	155.2	174.2	241.4	232.8	210.4	198.3	196.6
80°	212.1	160.4	124.2	132.8	134.5	148.3	200.0	189.7	169.0	150.0	150.0
82.5°	105.2	89.7	98.3	110.4	106.9	119.0	156.9	139.7	124.2	103.5	100.0
85°	48.3	51.7	72.4	82.8	72.4	74.1	106.9	98.3	77.6	58.6	60.4
87.5°	17.2	24.1	41.4	50.0	36.2	34.5	56.9	41.4	24.1	6.9	8.6
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)