

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: P399247

Luminaire Tested: **ARCH-L-PA3-110-830-U-T2R**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-110-830-U-T2R  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 3000K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14633 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

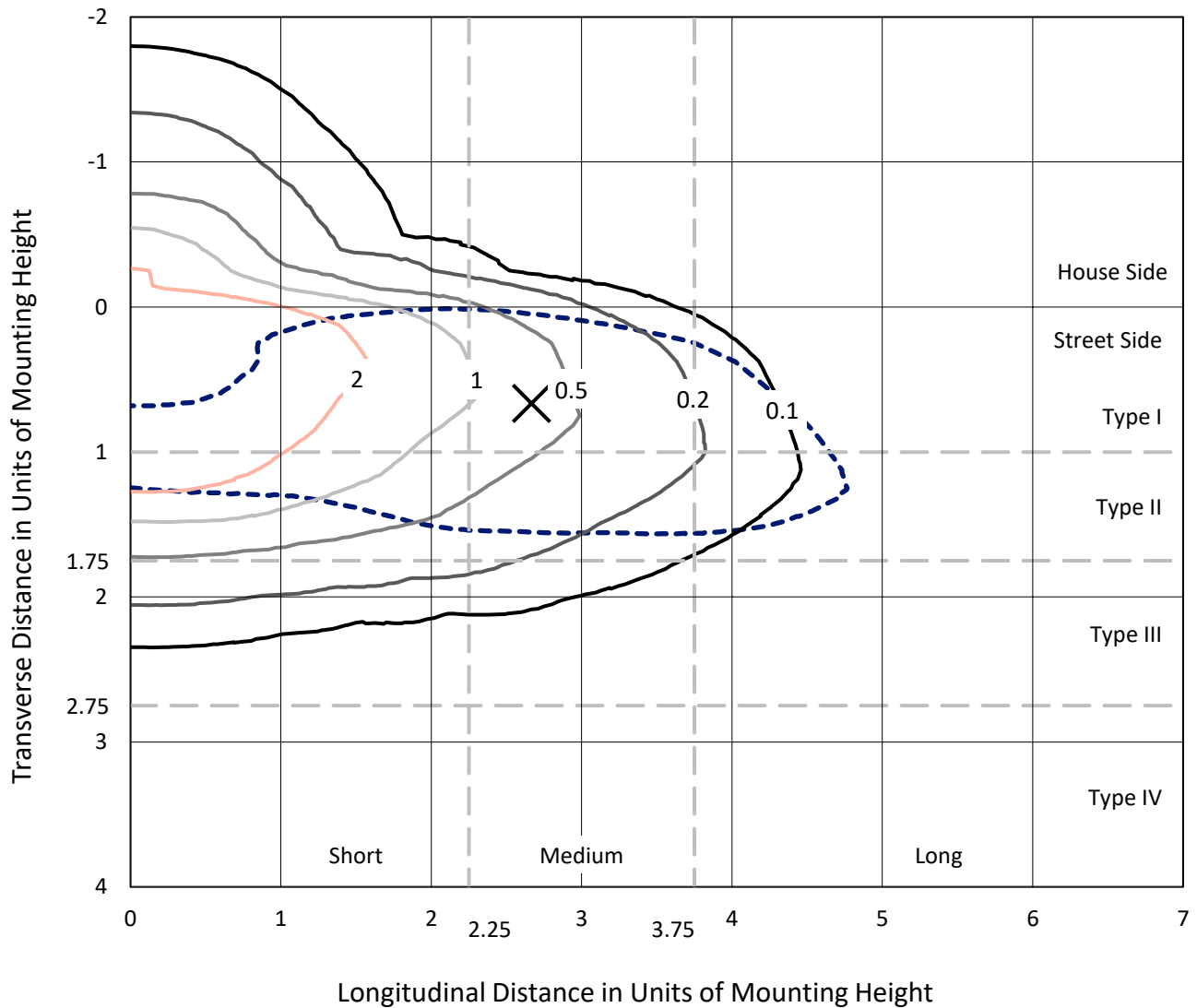
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P399247  
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### Iso-Footcandle Lines of Horizontal Illumination

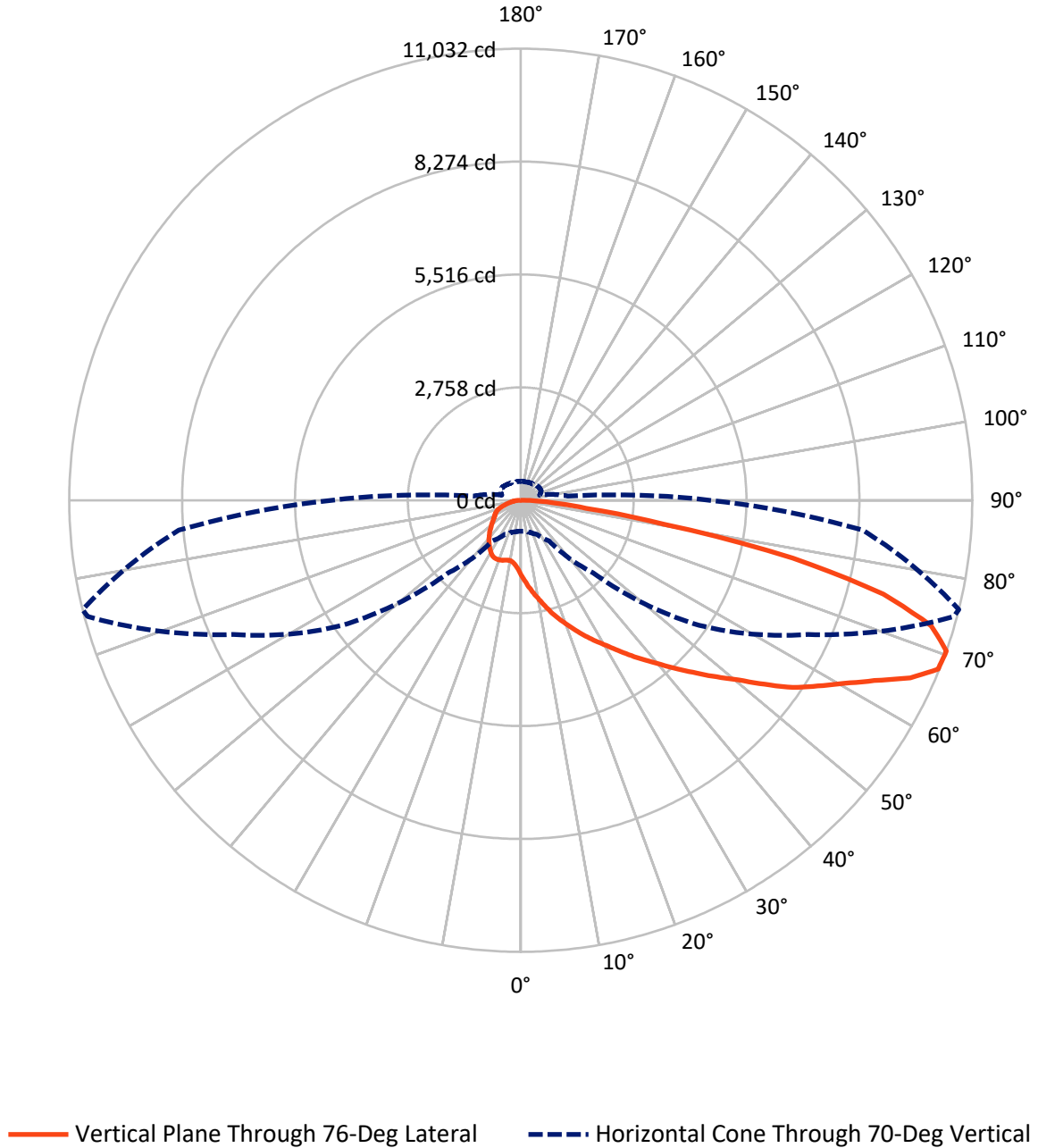
✕ Max cd  
 - - - 1/2 Max cd



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

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CATALOG NUMBER: ARCH-L-PA3-110-830-U-T2R

### Luminous Intensity Polar Plot



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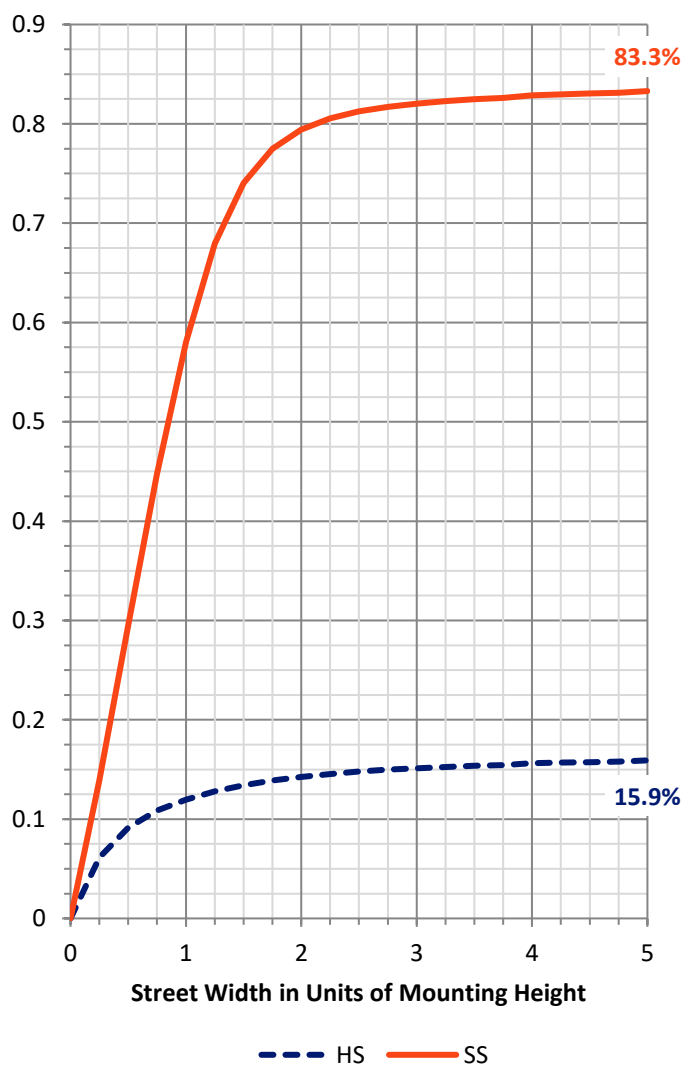
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2389.0	0.0	2389.0
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	12244.0	0.0	12244.0
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	14633.0	0.0	14633.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.1	1.3
10°-20°	646.2	4.4
20°-30°	1156.2	7.9
30°-40°	1870.3	12.8
40°-50°	2705.6	18.5
50°-60°	3096.7	21.2
60°-70°	2848.6	19.5
70°-80°	1761.6	12.0
80°-90°	357.7	2.4
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°	14633.0	100.0
0°-180°	14633.0	100.0

**Coefficient of Utilization**

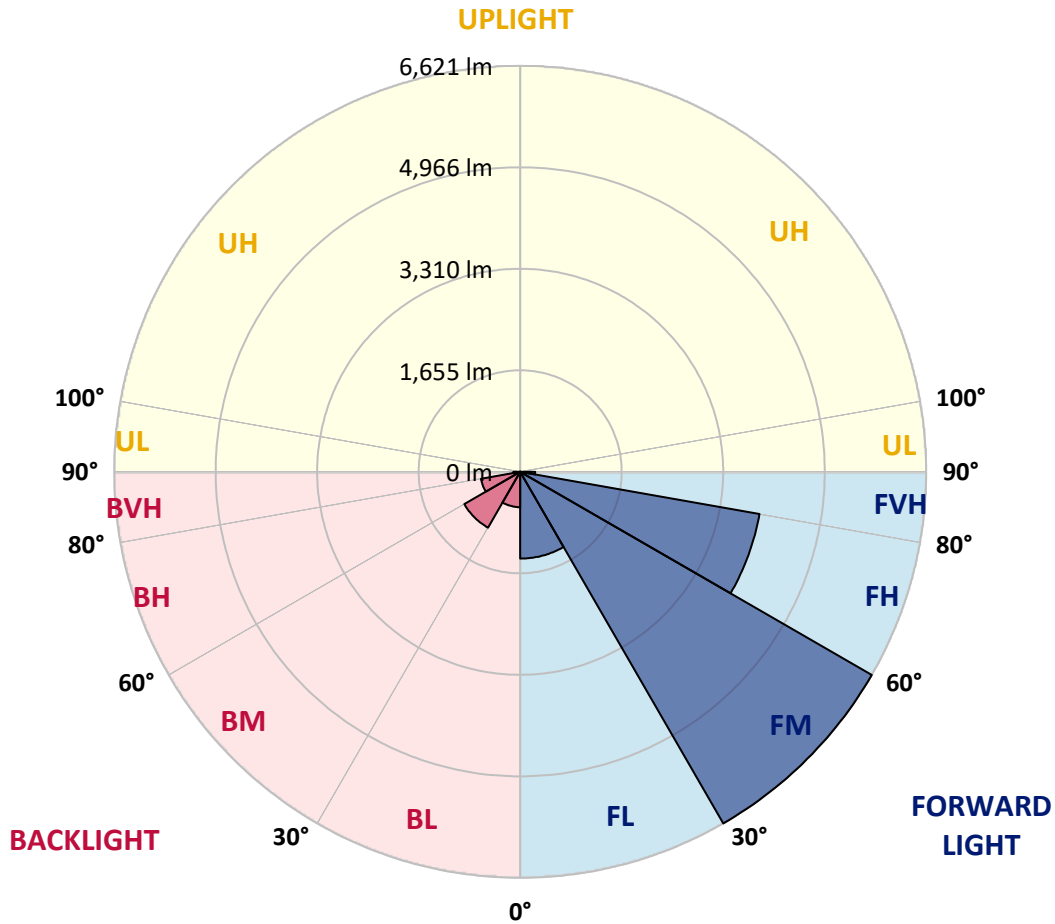


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1415.5	9.7			
FM (30°-60°)	6620.7	45.2			
FH (60°-80°)	3962.2	27.1			G2/5000
FVH (80°-90°)	245.6	1.7			G3/500
BL (0°-30°)	577.0	3.9	B2/1000		
BM (30°-60°)	1051.9	7.2	B2/2500		
BH (60°-80°)	648.0	4.4	B2/1000		G2/1000
BVH (80°-90°)	112.1	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-G3**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1829.9	1829.9	1829.9	1829.9	1829.9	1829.9	1829.9	1829.9	1829.9	1829.9	1829.9
2.5°	2332.1	2314.8	2312.9	2286.0	2260.9	2193.6	2145.5	2060.8	1976.2	1974.2	1889.6
5°	2695.8	2678.5	2668.9	2636.2	2593.8	2505.3	2418.7	2287.9	2143.6	2133.9	1974.2
7.5°	2942.1	2926.7	2907.5	2894.0	2853.6	2774.7	2668.9	2513.0	2314.8	2295.6	2072.4
10°	3107.6	3098.0	3094.1	3084.5	3059.5	2996.0	2894.0	2728.5	2486.1	2464.9	2176.3
12.5°	3178.8	3174.9	3192.3	3219.2	3228.8	3203.8	3105.7	2949.8	2674.6	2651.6	2301.3
15°	3096.0	3099.9	3144.2	3236.5	3334.6	3388.5	3330.8	3178.8	2888.2	2855.5	2447.6
17.5°	3057.6	3063.3	3094.1	3182.6	3321.2	3488.6	3515.5	3396.2	3094.1	3047.9	2601.5
20°	3124.9	3132.6	3155.7	3225.0	3321.2	3500.1	3640.6	3604.0	3296.2	3248.1	2749.7
22.5°	3296.2	3305.8	3303.9	3348.1	3413.5	3536.7	3709.9	3800.3	3507.8	3453.9	2903.6
25°	3661.8	3654.1	3588.6	3567.5	3584.8	3663.7	3802.2	3988.9	3729.1	3675.2	3065.3
27.5°	4158.2	4148.6	4029.3	3921.5	3825.3	3860.0	3933.1	4140.9	3954.2	3892.7	3219.2
30°	4689.3	4677.7	4539.2	4364.1	4150.5	4100.5	4090.9	4273.7	4181.3	4115.9	3382.8
32.5°	5206.9	5197.3	5049.1	4845.1	4550.7	4400.7	4308.3	4421.8	4439.1	4375.6	3561.7
35°	5678.3	5678.3	5551.3	5308.9	4976.0	4748.9	4596.9	4604.6	4735.5	4662.3	3765.7
37.5°	6097.8	6095.9	5957.3	5718.7	5399.3	5139.6	4951.0	4825.9	5018.3	4954.8	3979.3
40°	6430.7	6417.2	6315.2	6107.4	5786.1	5528.2	5337.7	5085.7	5333.9	5276.2	4206.3
42.5°	6673.1	6665.4	6596.2	6415.3	6109.4	5866.9	5736.1	5412.8	5691.8	5634.1	4471.9
45°	6767.4	6782.8	6782.8	6611.6	6369.1	6147.8	6090.1	5772.6	6078.6	6020.8	4756.6
47.5°	6615.4	6655.8	6738.6	6750.1	6536.5	6386.4	6405.7	6134.4	6476.9	6446.1	5068.4
50°	6140.1	6215.2	6396.1	6723.2	6603.9	6569.2	6675.1	6503.8	6904.0	6894.4	5447.4
52.5°	4914.4	5097.2	5661.0	6247.9	6557.7	6653.9	6942.5	6919.4	7454.4	7469.8	5941.9
55°	3769.5	3838.8	4491.1	5489.8	6274.8	6627.0	7121.5	7325.4	8050.9	8070.1	6396.1
57.5°	3047.9	3094.1	3450.1	4491.1	5630.2	6480.7	7262.0	7562.1	8508.8	8558.9	6800.1
60°	2414.9	2482.2	2720.8	3436.6	4727.8	6128.6	7360.1	7825.7	9001.4	9076.5	7283.1
62.5°	1795.3	1828.0	2053.1	2545.7	3742.6	5495.5	7308.1	8112.4	9605.6	9696.1	7864.2
65°	1277.7	1306.5	1466.2	1810.7	2767.0	4639.3	7006.0	8326.0	10363.8	10456.1	8449.2
67.5°	956.3	967.9	1058.3	1266.1	1864.6	3604.0	6394.1	8289.5	10917.9	11000.7	8683.9
70°	756.2	760.1	804.3	915.9	1212.2	2509.2	5322.4	7752.6	10958.3	11031.5	8387.6
72.5°	627.3	625.4	650.4	704.3	844.7	1587.5	3942.7	6755.9	10438.8	10488.8	7560.2
75°	517.6	521.5	538.8	569.6	644.6	1046.8	2555.3	5389.7	9209.2	9155.4	6344.1
77.5°	434.9	432.9	440.6	467.6	521.5	752.4	1497.0	3894.6	6825.2	6798.2	4164.0
80°	350.2	354.1	365.6	388.7	438.7	573.4	885.1	2430.3	3661.8	3563.6	1989.6
82.5°	234.8	271.3	294.4	321.3	379.1	423.3	561.9	1235.3	1637.5	1612.5	902.5
85°	111.6	148.2	219.4	250.1	307.9	265.5	381.0	588.8	819.7	810.1	325.2
87.5°	23.1	23.1	117.4	140.5	190.5	113.5	211.7	255.9	396.4	371.4	132.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P399247

CATALOG NUMBER: ARCH-L-PA3-110-830-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1829.9	1829.9	1829.9	1829.9	1829.9	1829.9	1829.9	1829.9	1829.9	1829.9	1829.9
2.5°	1839.5	1787.6	1683.7	1600.9	1516.3	1468.2	1408.5	1379.7	1373.9	1358.5	1370.0
5°	1872.3	1770.3	1574.0	1445.1	1358.5	1316.2	1295.0	1287.3	1285.4	1281.5	1281.5
7.5°	1916.5	1760.6	1504.7	1373.9	1318.1	1304.6	1310.4	1321.9	1323.9	1327.7	1325.8
10°	1970.4	1762.6	1466.2	1356.6	1329.6	1331.6	1350.8	1366.2	1373.9	1379.7	1377.7
12.5°	2045.4	1785.7	1460.5	1368.1	1356.6	1364.3	1383.5	1398.9	1406.6	1408.5	1408.5
15°	2143.6	1833.8	1473.9	1393.1	1383.5	1389.3	1400.8	1406.6	1408.5	1406.6	1406.6
17.5°	2251.3	1891.5	1493.2	1408.5	1393.1	1387.4	1383.5	1377.7	1366.2	1358.5	1358.5
20°	2355.2	1943.4	1502.8	1406.6	1379.7	1356.6	1333.5	1304.6	1285.4	1270.0	1270.0
22.5°	2459.1	1991.6	1502.8	1385.4	1343.1	1298.8	1250.7	1204.6	1175.7	1156.4	1156.4
25°	2568.8	2037.7	1491.3	1348.9	1285.4	1221.9	1156.4	1098.7	1069.9	1050.6	1046.8
27.5°	2661.2	2064.7	1460.5	1296.9	1214.2	1133.4	1058.3	998.7	977.5	960.2	960.2
30°	2759.3	2082.0	1402.7	1229.6	1133.4	1041.0	964.0	915.9	892.8	867.8	865.9
32.5°	2869.0	2093.5	1337.3	1158.4	1050.6	952.5	887.1	848.6	798.5	771.6	767.8
35°	2996.0	2108.9	1268.1	1077.6	967.9	879.4	840.9	777.4	729.3	706.2	704.3
37.5°	3130.7	2120.5	1193.0	1006.4	892.8	831.3	792.8	717.7	675.4	640.8	636.9
40°	3273.1	2120.5	1116.0	937.1	833.2	810.1	737.0	669.6	598.4	581.1	577.3
42.5°	3430.9	2116.6	1039.1	869.7	777.4	762.0	704.3	633.1	596.5	581.1	577.3
45°	3598.3	2103.2	966.0	792.8	719.7	688.9	644.6	625.4	610.0	610.0	610.0
47.5°	3788.8	2091.6	883.2	723.5	677.3	642.7	610.0	598.4	596.5	602.3	608.0
50°	4033.1	2087.8	813.9	673.5	644.6	604.2	600.4	590.7	592.7	592.7	592.7
52.5°	4329.5	2053.1	748.5	636.9	611.9	563.8	575.3	585.0	588.8	586.9	585.0
55°	4546.9	1991.6	692.7	611.9	588.8	548.4	563.8	579.2	583.0	577.3	577.3
57.5°	4743.2	1905.0	648.5	592.7	573.4	538.8	556.1	571.5	567.6	565.7	563.8
60°	4968.3	1822.2	613.8	583.0	558.0	534.9	550.3	559.9	554.2	550.3	548.4
62.5°	5212.7	1741.4	588.8	583.0	546.5	533.0	544.6	548.4	536.9	533.0	533.0
65°	5326.2	1614.4	561.9	583.0	540.7	529.2	533.0	529.2	517.6	517.6	515.7
67.5°	5139.6	1404.7	527.2	575.3	548.4	523.4	515.7	509.9	496.4	496.4	492.6
70°	4623.9	1154.5	477.2	550.3	550.3	521.5	492.6	479.1	463.7	469.5	461.8
72.5°	3950.4	915.9	415.6	508.0	538.8	519.5	467.6	446.4	432.9	438.7	427.2
75°	3200.0	710.0	342.5	440.6	509.9	509.9	442.6	413.7	398.3	398.3	384.8
77.5°	2039.7	525.3	279.0	365.6	458.0	496.4	421.4	377.1	354.1	348.3	338.7
80°	1010.2	369.4	229.0	290.6	390.6	465.7	406.0	334.8	302.1	290.6	273.2
82.5°	536.9	255.9	182.8	227.1	311.7	419.5	386.8	288.6	248.2	230.9	211.7
85°	240.5	157.8	146.2	173.2	236.7	344.4	348.3	236.7	190.5	227.1	167.4
87.5°	88.5	71.2	71.2	88.5	136.6	144.3	246.3	152.0	121.2	82.7	65.4
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)