

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: P397936

Luminaire Tested: **ARCH-S-PA1-60-760-U-T3-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397936  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA1-60-760-U-T3-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6480 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

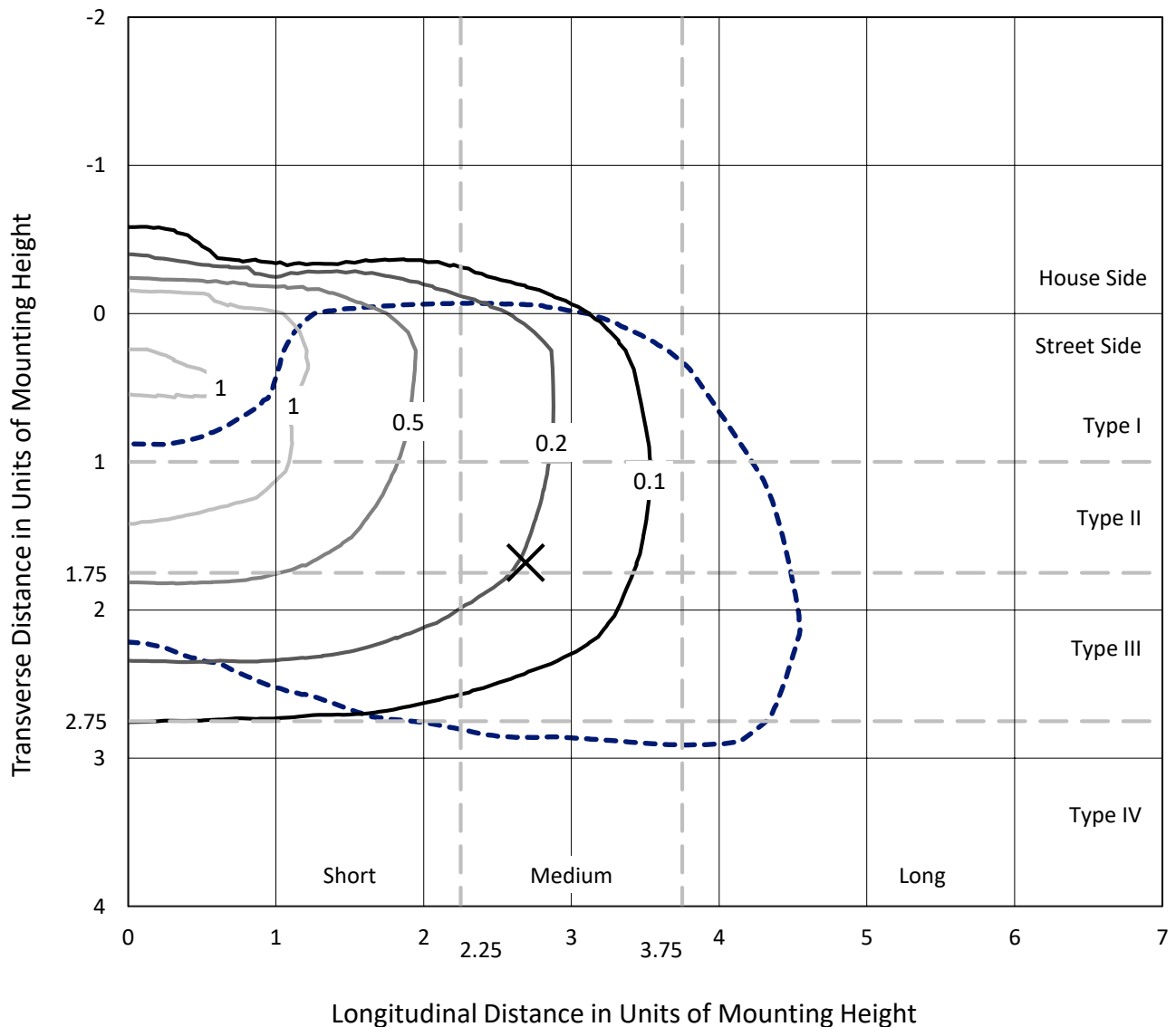
Input Watts (W): 64  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

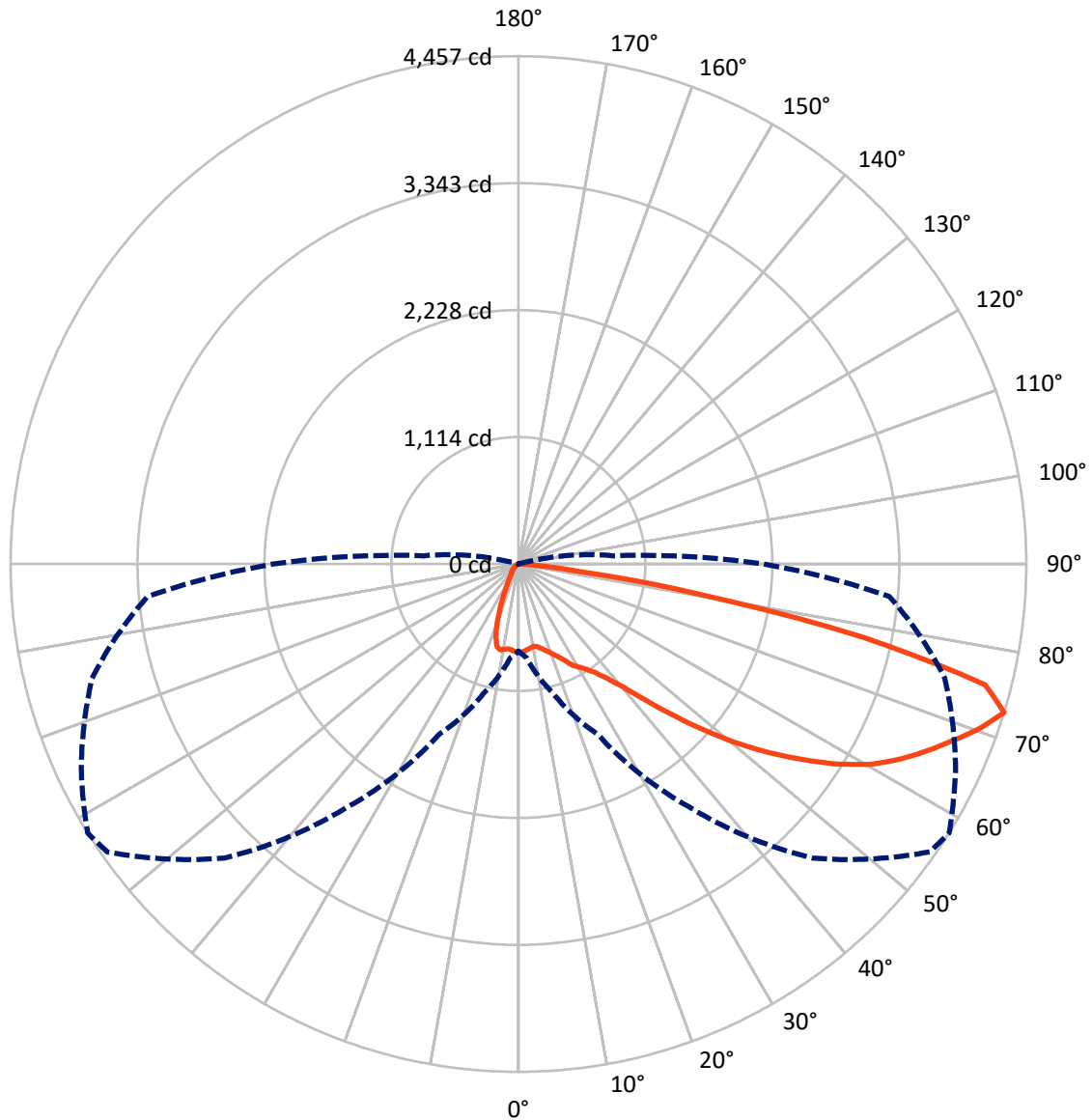


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical



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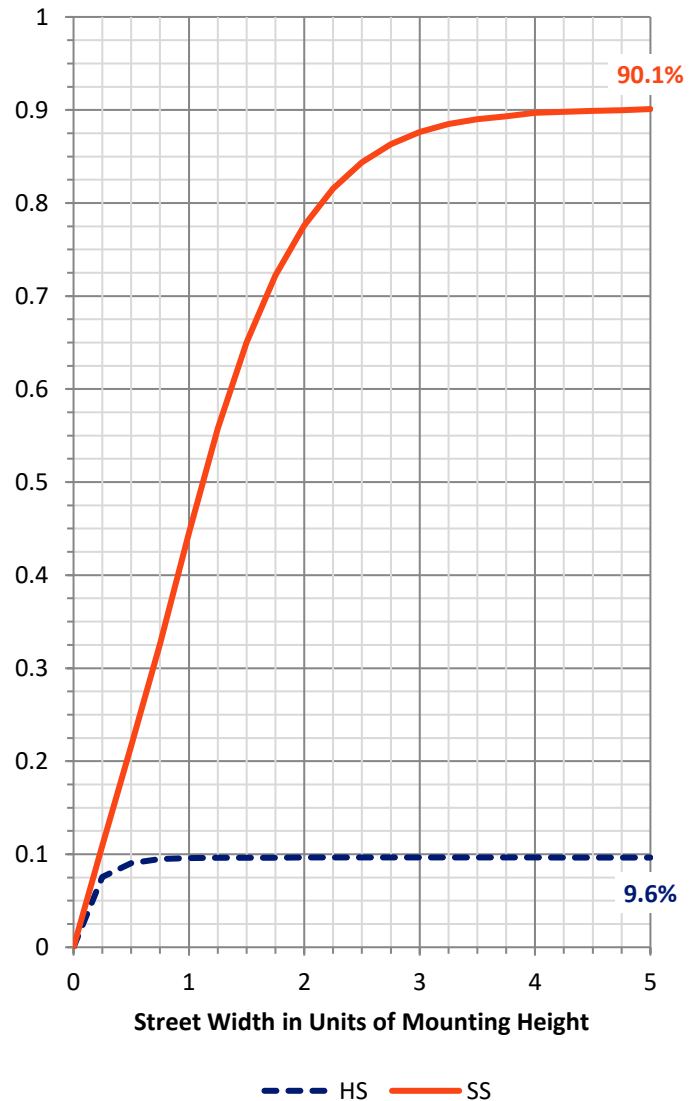
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	630.1	0.0	630.1
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	5849.9	0.0	5849.9
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	6480.0	0.0	6480.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.4	1.1
10°-20°	185.9	2.9
20°-30°	292.0	4.5
30°-40°	503.5	7.8
40°-50°	958.0	14.8
50°-60°	1517.2	23.4
60°-70°	1770.4	27.3
70°-80°	1108.8	17.1
80°-90°	72.8	1.1
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°	6480.0	100.0
0°-180°	6480.0	100.0

**Coefficient of Utilization**



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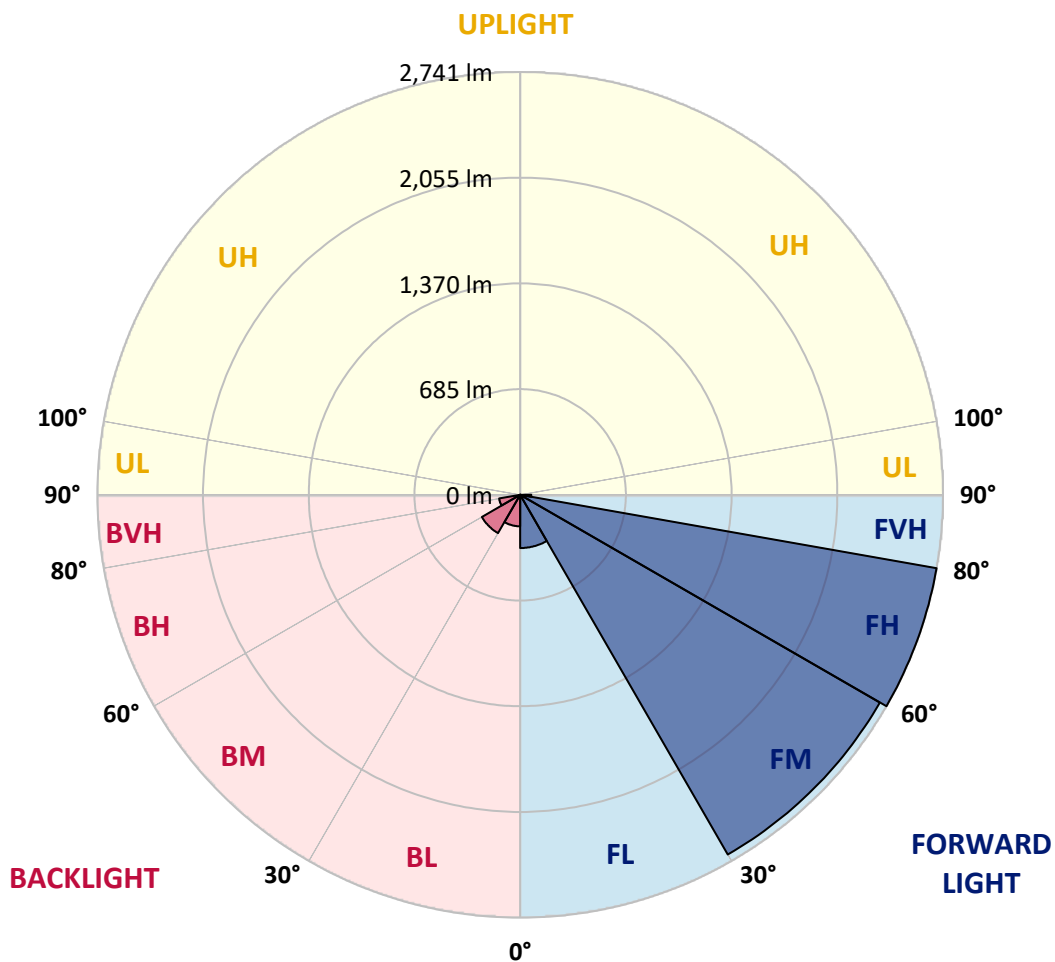
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	345.1	5.3			
FM	(30°-60°)	2692.1	41.5			
FH	(60°-80°)	2740.6	42.3			G2/5000
FVH	(80°-90°)	72.1	1.1			G1/100
BL	(0°-30°)	204.1	3.1	B1/500		
BM	(30°-60°)	286.7	4.4	B1/1000		
BH	(60°-80°)	138.7	2.1	B1/500		G1/500
BVH	(80°-90°)	0.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	777.6	777.6	777.6	777.6	777.6	777.6	777.6	777.6	777.6	777.6	777.6
2.5°	774.1	770.6	769.4	768.3	769.4	770.6	767.1	770.6	768.3	769.4	771.8
5°	746.3	742.8	741.6	742.8	746.3	752.1	754.4	757.9	757.9	761.3	762.5
7.5°	715.0	712.7	711.5	713.8	720.8	733.5	740.5	745.1	749.7	756.7	763.7
10°	697.6	696.4	695.3	698.8	705.7	717.3	726.6	733.5	750.9	770.6	783.4
12.5°	686.0	686.0	688.3	695.3	704.6	713.8	735.8	745.1	771.8	801.9	819.3
15°	676.7	676.7	680.2	693.0	705.7	727.7	760.2	770.6	801.9	839.0	862.2
17.5°	669.8	672.1	674.4	687.2	711.5	748.6	786.8	801.9	840.1	880.7	906.2
20°	671.0	673.3	674.4	687.2	721.9	772.9	821.6	839.0	883.0	925.9	951.4
22.5°	677.9	681.4	682.5	699.9	740.5	798.4	861.0	880.7	928.2	973.4	993.1
25°	706.9	709.2	702.2	717.3	767.1	837.8	912.0	932.8	980.4	1022.1	1038.3
27.5°	805.4	807.7	769.4	752.1	788.0	870.3	974.6	1003.5	1062.6	1090.4	1092.8
30°	1018.6	1020.9	945.6	863.3	837.8	898.1	1009.3	1049.9	1126.4	1157.6	1143.7
32.5°	1293.2	1290.9	1187.8	1066.1	956.0	946.7	1059.2	1102.0	1185.5	1215.6	1205.2
35°	1569.0	1572.5	1484.4	1301.3	1143.7	1038.3	1122.9	1172.7	1273.5	1316.4	1297.9
37.5°	1757.9	1781.1	1742.8	1544.7	1374.3	1207.5	1226.0	1279.3	1405.6	1463.6	1424.2
40°	2024.4	2018.6	1925.9	1779.9	1629.3	1457.8	1392.9	1418.4	1563.2	1640.9	1579.5
42.5°	2382.5	2370.9	2213.3	2070.8	1902.8	1762.5	1630.4	1625.8	1744.0	1834.4	1745.2
45°	2707.0	2689.6	2581.8	2443.9	2259.7	2098.6	1920.1	1879.6	1961.9	2038.3	1934.1
47.5°	2965.4	2936.4	2859.9	2786.9	2741.7	2491.4	2223.8	2162.3	2204.1	2260.8	2113.7
50°	3271.3	3191.4	3080.1	3036.1	3129.9	2936.4	2515.8	2456.7	2454.4	2486.8	2299.1
52.5°	3410.4	3265.5	3202.9	3240.0	3405.7	3350.1	2831.0	2746.4	2712.8	2716.2	2471.7
55°	3242.3	3226.1	3259.7	3375.6	3592.3	3559.9	3133.4	3029.1	2979.3	2916.7	2637.4
57.5°	3051.1	3101.0	3234.2	3455.6	3828.7	3778.9	3431.2	3313.0	3221.5	3077.8	2821.7
60°	2875.0	2926.0	3146.2	3474.1	3958.5	3989.8	3679.2	3566.8	3431.2	3242.3	3024.5
62.5°	2607.3	2646.7	2956.1	3447.5	3901.7	4112.6	3851.9	3767.3	3641.0	3398.8	3257.4
65°	2306.0	2331.5	2637.4	3234.2	3790.5	4098.7	3994.4	3946.9	3824.1	3562.2	3488.0
67.5°	1975.8	2005.9	2260.8	2850.7	3572.6	4033.8	4128.8	4124.2	3984.0	3743.0	3654.9
70°	1595.7	1598.0	1808.9	2364.0	3192.5	3904.0	4295.7	4306.1	4136.9	3878.5	3661.8
72.5°	763.7	826.2	1172.7	1650.1	2594.6	3649.1	4404.6	4456.8	4233.1	3873.9	3266.7
75°	175.0	180.8	341.8	784.5	1521.5	2800.8	4132.3	4229.7	3999.0	3350.1	2301.4
77.5°	63.7	67.2	96.2	229.4	585.2	1447.4	2957.3	3099.8	2956.1	2165.8	1088.1
80°	42.9	41.7	49.8	102.0	268.8	410.2	1512.2	1596.8	1457.8	739.3	260.7
82.5°	22.0	23.2	34.8	56.8	180.8	142.5	505.2	549.3	451.9	148.3	48.7
85°	10.4	10.4	19.7	35.9	76.5	49.8	112.4	135.6	121.7	64.9	16.2
87.5°	10.4	10.4	18.5	23.2	39.4	20.9	27.8	34.8	32.4	34.8	5.8
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	777.6	777.6	777.6	777.6	777.6	777.6	777.6	777.6	777.6	777.6	777.6
2.5°	771.8	770.6	769.4	771.8	770.6	772.9	772.9	775.2	775.2	772.9	771.8
5°	761.3	759.0	756.7	756.7	755.5	757.9	764.8	770.6	771.8	768.3	767.1
7.5°	762.5	762.5	760.2	755.5	747.4	747.4	747.4	754.4	757.9	755.5	754.4
10°	783.4	784.5	778.7	768.3	754.4	741.6	717.3	681.4	647.8	638.5	635.0
12.5°	819.3	820.4	808.8	790.3	761.3	686.0	593.3	507.6	441.5	423.0	419.5
15°	862.2	863.3	842.5	812.3	724.3	549.3	411.4	314.0	256.1	242.2	241.0
17.5°	906.2	903.9	872.6	814.6	614.2	389.4	250.3	200.5	185.4	181.9	183.1
20°	949.1	942.1	899.2	771.8	472.8	254.9	183.1	171.5	168.0	165.7	165.7
22.5°	988.5	974.6	921.3	687.2	331.4	183.1	163.4	161.1	156.4	153.0	151.8
25°	1027.9	1008.2	935.2	577.1	222.5	159.9	154.1	149.5	143.7	139.1	137.9
27.5°	1075.4	1047.6	928.2	438.0	166.9	148.3	143.7	136.7	128.6	121.7	119.4
30°	1120.6	1089.3	888.8	302.4	142.5	136.7	129.8	119.4	108.9	100.8	98.5
32.5°	1177.3	1141.4	818.1	198.2	124.0	119.4	112.4	99.7	85.8	76.5	74.2
35°	1258.5	1217.9	727.7	139.1	108.9	100.8	91.5	77.6	62.6	55.6	54.5
37.5°	1372.0	1317.6	614.2	112.4	96.2	84.6	70.7	56.8	46.4	40.6	39.4
40°	1511.1	1427.7	487.9	99.7	85.8	70.7	53.3	40.6	33.6	29.0	29.0
42.5°	1661.7	1530.8	359.2	91.5	75.3	57.9	39.4	29.0	24.3	22.0	20.9
45°	1817.0	1622.3	242.2	84.6	66.1	44.0	27.8	19.7	16.2	16.2	15.1
47.5°	1978.1	1683.7	156.4	76.5	55.6	32.4	18.5	13.9	11.6	11.6	11.6
50°	2138.0	1716.2	111.2	69.5	45.2	22.0	13.9	10.4	9.3	9.3	9.3
52.5°	2253.9	1695.3	89.2	60.3	34.8	16.2	10.4	8.1	7.0	7.0	7.0
55°	2354.7	1659.4	77.6	52.1	25.5	11.6	8.1	7.0	5.8	5.8	5.8
57.5°	2457.8	1613.1	69.5	44.0	18.5	8.1	5.8	4.6	4.6	4.6	4.6
60°	2551.7	1534.3	60.3	34.8	12.7	5.8	4.6	3.5	3.5	3.5	3.5
62.5°	2643.2	1467.1	52.1	26.7	9.3	4.6	2.3	2.3	1.2	1.2	1.2
65°	2695.4	1376.7	41.7	17.4	5.8	3.5	1.2	1.2	0.0	0.0	0.0
67.5°	2679.2	1268.9	29.0	10.4	3.5	2.3	1.2	0.0	0.0	0.0	0.0
70°	2566.8	1124.0	17.4	5.8	3.5	2.3	1.2	0.0	0.0	0.0	0.0
72.5°	2149.6	832.0	10.4	4.6	2.3	1.2	0.0	0.0	0.0	0.0	0.0
75°	1435.8	382.4	5.8	3.5	1.2	1.2	0.0	0.0	0.0	0.0	0.0
77.5°	657.0	114.7	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	132.1	30.1	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	27.8	5.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)