

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: P397918

Luminaire Tested: **ARCH-S-PA1-60-740-U-T3-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397918  
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-PA1-60-740-U-T3-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 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: 6479 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

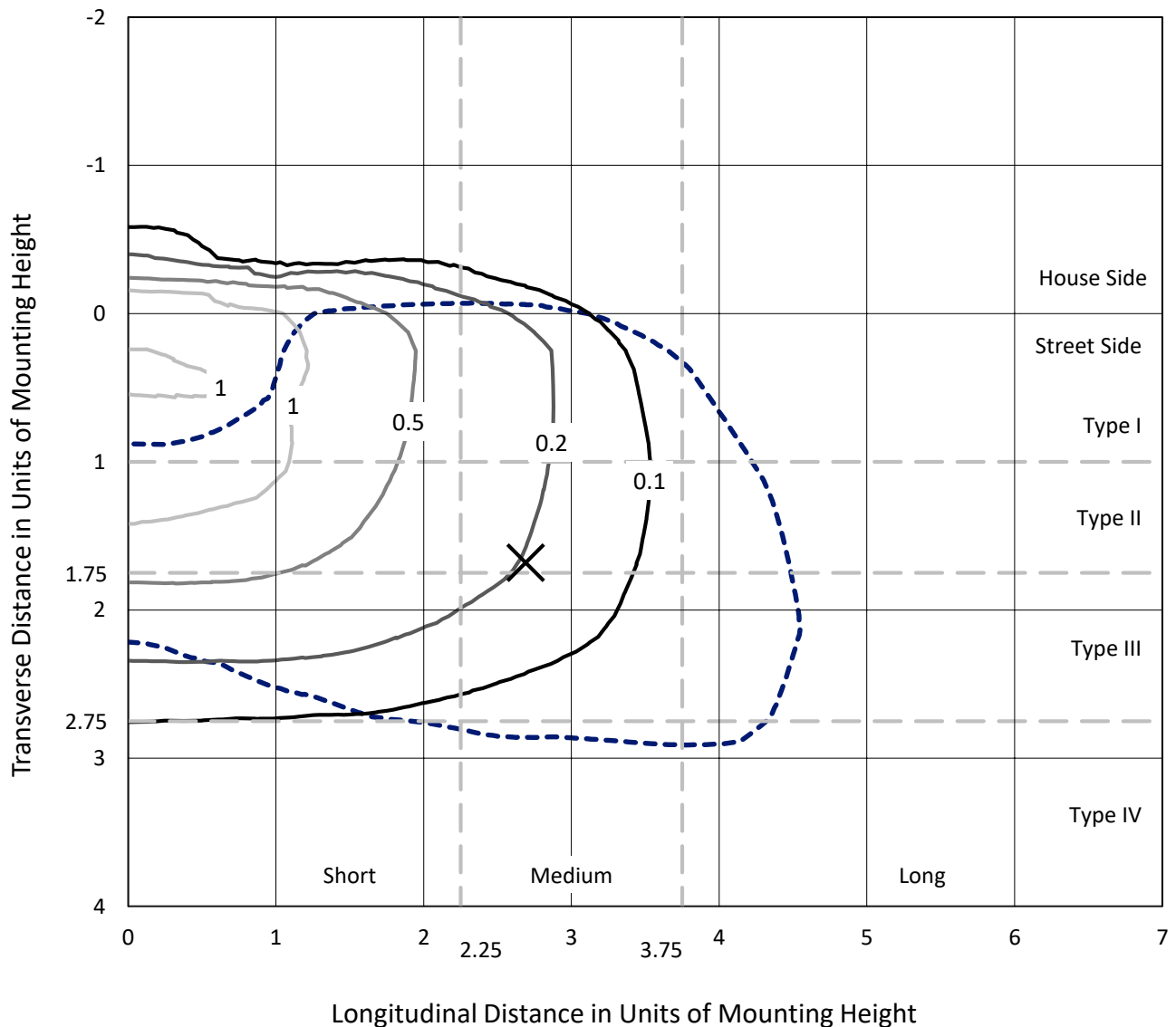
Input Watts (W): 64  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

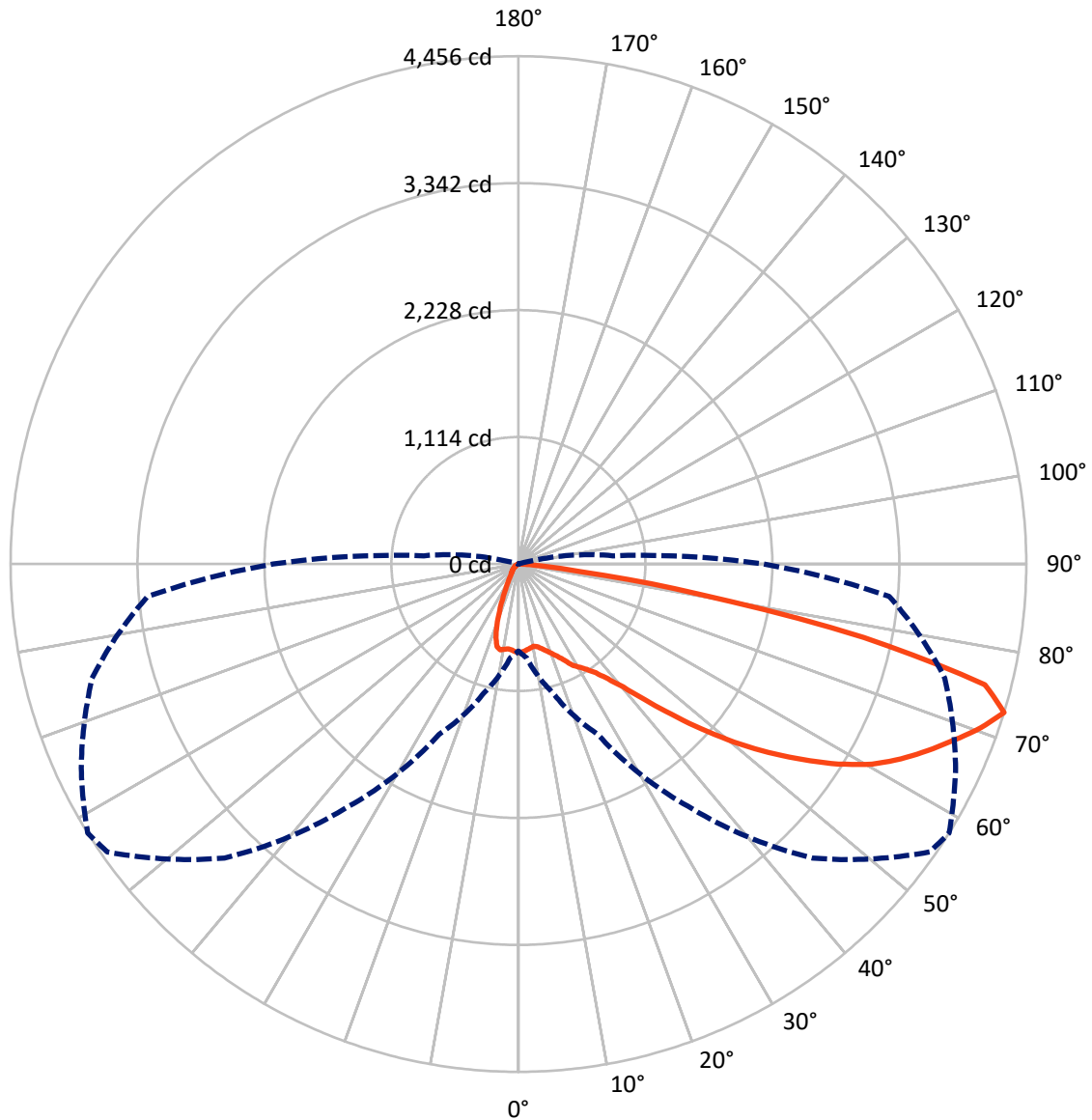


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type IV - Medium - Non-Cutoff

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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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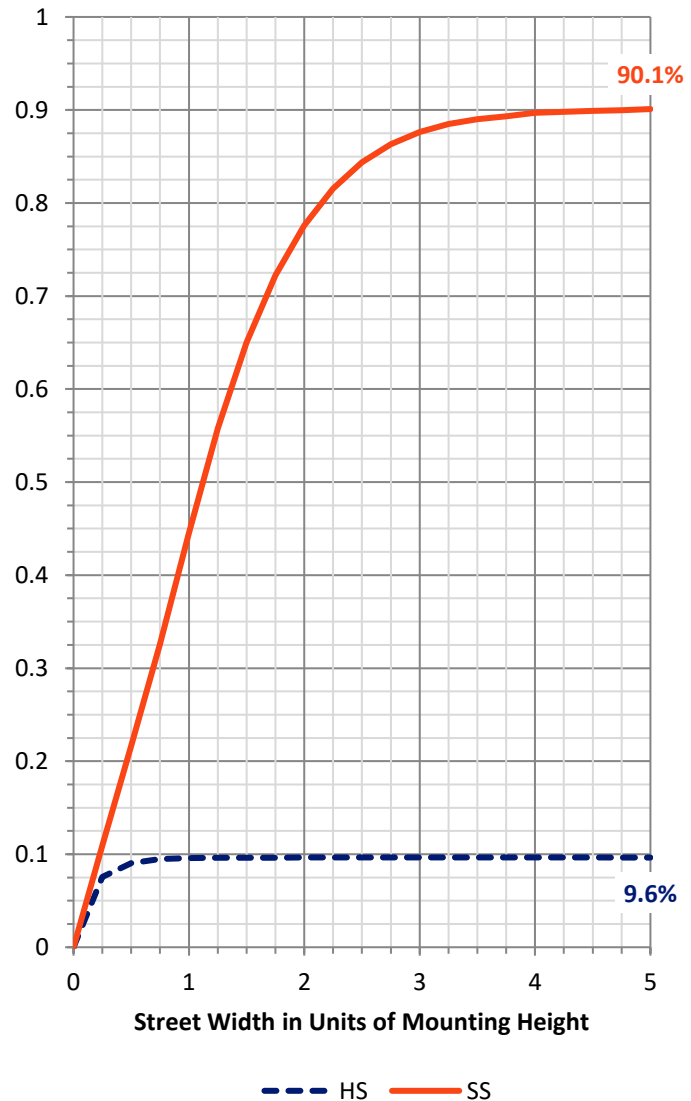
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	630.0	0.0	630.0
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	5849.0	0.0	5849.0
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	6479.0	0.0	6479.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.4	1.1
10°-20°	185.8	2.9
20°-30°	291.9	4.5
30°-40°	503.5	7.8
40°-50°	957.9	14.8
50°-60°	1517.0	23.4
60°-70°	1770.1	27.3
70°-80°	1108.6	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°	6479.0	100.0
0°-180°	6479.0	100.0



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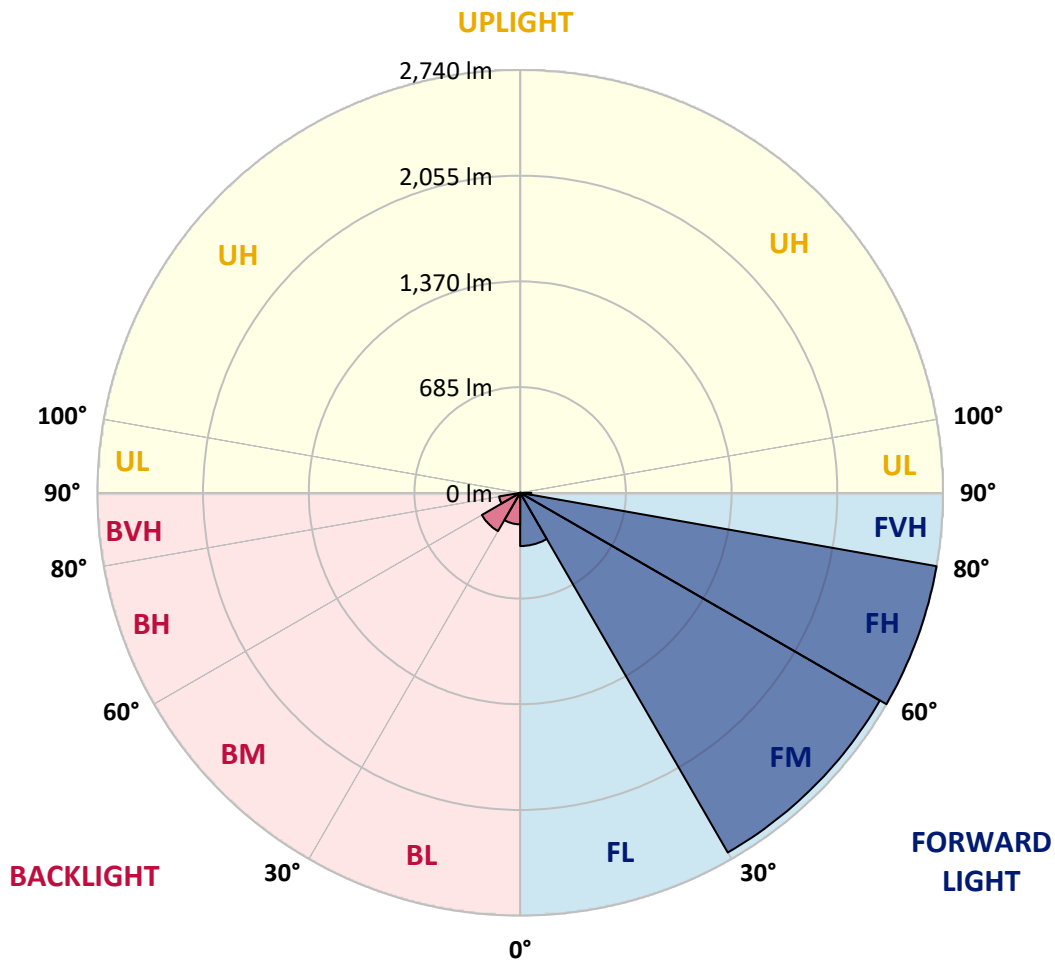
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	345.1	5.3			
FM	(30°-60°)	2691.6	41.5			
FH	(60°-80°)	2740.2	42.3			G2/5000
FVH	(80°-90°)	72.1	1.1			G1/100
BL	(0°-30°)	204.0	3.1	B1/500		
BM	(30°-60°)	286.7	4.4	B1/1000		
BH	(60°-80°)	138.6	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°	777.4	777.4	777.4	777.4	777.4	777.4	777.4	777.4	777.4	777.4	777.4
2.5°	774.0	770.5	769.3	768.2	769.3	770.5	767.0	770.5	768.2	769.3	771.6
5°	746.2	742.7	741.5	742.7	746.2	752.0	754.3	757.7	757.7	761.2	762.4
7.5°	714.9	712.6	711.4	713.7	720.7	733.4	740.4	745.0	749.6	756.6	763.5
10°	697.5	696.3	695.2	698.7	705.6	717.2	726.5	733.4	750.8	770.5	783.2
12.5°	685.9	685.9	688.2	695.2	704.4	713.7	735.7	745.0	771.6	801.8	819.2
15°	676.6	676.6	680.1	692.9	705.6	727.6	760.1	770.5	801.8	838.8	862.0
17.5°	669.7	672.0	674.3	687.1	711.4	748.5	786.7	801.8	840.0	880.6	906.0
20°	670.8	673.2	674.3	687.1	721.8	772.8	821.5	838.8	882.9	925.7	951.2
22.5°	677.8	681.3	682.4	699.8	740.4	798.3	860.9	880.6	928.1	973.2	992.9
25°	706.8	709.1	702.1	717.2	767.0	837.7	911.8	932.7	980.2	1021.9	1038.1
27.5°	805.2	807.6	769.3	752.0	787.9	870.1	974.4	1003.4	1062.5	1090.3	1092.6
30°	1018.4	1020.8	945.4	863.2	837.7	897.9	1009.2	1049.7	1126.2	1157.5	1143.6
32.5°	1293.0	1290.7	1187.6	1065.9	955.9	946.6	1059.0	1101.9	1185.3	1215.4	1205.0
35°	1568.8	1572.3	1484.2	1301.1	1143.6	1038.1	1122.7	1172.5	1273.3	1316.2	1297.7
37.5°	1757.6	1780.8	1742.6	1544.5	1374.1	1207.3	1225.8	1279.1	1405.4	1463.3	1424.0
40°	2024.1	2018.3	1925.6	1779.7	1629.0	1457.6	1392.7	1418.2	1563.0	1640.6	1579.2
42.5°	2382.1	2370.6	2213.0	2070.5	1902.5	1762.3	1630.2	1625.6	1743.7	1834.1	1744.9
45°	2706.6	2689.2	2581.4	2443.5	2259.3	2098.3	1919.8	1879.3	1961.6	2038.0	1933.8
47.5°	2964.9	2936.0	2859.5	2786.5	2741.3	2491.1	2223.4	2162.0	2203.7	2260.5	2113.3
50°	3270.8	3190.9	3079.6	3035.6	3129.5	2936.0	2515.4	2456.3	2454.0	2486.4	2298.7
52.5°	3409.8	3265.0	3202.5	3239.5	3405.2	3349.6	2830.5	2746.0	2712.4	2715.8	2471.4
55°	3241.8	3225.6	3259.2	3375.1	3591.8	3559.3	3132.9	3028.7	2978.8	2916.3	2637.0
57.5°	3050.7	3100.5	3233.7	3455.0	3828.1	3778.3	3430.7	3312.5	3221.0	3077.3	2821.3
60°	2874.6	2925.5	3145.7	3473.6	3957.9	3989.2	3678.6	3566.3	3430.7	3241.8	3024.0
62.5°	2606.9	2646.3	2955.7	3446.9	3901.1	4112.0	3851.3	3766.7	3640.4	3398.3	3256.9
65°	2305.7	2331.2	2637.0	3233.7	3789.9	4098.1	3993.8	3946.3	3823.5	3561.6	3487.5
67.5°	1975.5	2005.6	2260.5	2850.2	3572.1	4033.2	4128.2	4123.6	3983.4	3742.4	3654.3
70°	1595.4	1597.8	1808.6	2363.6	3192.0	3903.4	4295.0	4305.5	4136.3	3877.9	3661.3
72.5°	763.5	826.1	1172.5	1649.9	2594.2	3648.5	4404.0	4456.1	4232.5	3873.3	3266.2
75°	175.0	180.7	341.8	784.4	1521.3	2800.4	4131.7	4229.0	3998.4	3349.6	2301.0
77.5°	63.7	67.2	96.2	229.4	585.1	1447.1	2956.8	3099.3	2955.7	2165.5	1088.0
80°	42.9	41.7	49.8	102.0	268.8	410.2	1512.0	1596.6	1457.6	739.2	260.7
82.5°	22.0	23.2	34.8	56.8	180.7	142.5	505.2	549.2	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°	777.4	777.4	777.4	777.4	777.4	777.4	777.4	777.4	777.4	777.4	777.4
2.5°	771.6	770.5	769.3	771.6	770.5	772.8	772.8	775.1	775.1	772.8	771.6
5°	761.2	758.9	756.6	756.6	755.4	757.7	764.7	770.5	771.6	768.2	767.0
7.5°	762.4	762.4	760.1	755.4	747.3	747.3	747.3	754.3	757.7	755.4	754.3
10°	783.2	784.4	778.6	768.2	754.3	741.5	717.2	681.3	647.7	638.4	634.9
12.5°	819.2	820.3	808.7	790.2	761.2	685.9	593.2	507.5	441.4	422.9	419.4
15°	862.0	863.2	842.3	812.2	724.1	549.2	411.3	314.0	256.1	242.2	241.0
17.5°	906.0	903.7	872.4	814.5	614.1	389.3	250.3	200.4	185.4	181.9	183.1
20°	948.9	942.0	899.1	771.6	472.7	254.9	183.1	171.5	168.0	165.7	165.7
22.5°	988.3	974.4	921.1	687.1	331.4	183.1	163.4	161.0	156.4	152.9	151.8
25°	1027.7	1008.0	935.0	577.0	222.5	159.9	154.1	149.5	143.7	139.0	137.9
27.5°	1075.2	1047.4	928.1	438.0	166.8	148.3	143.7	136.7	128.6	121.7	119.3
30°	1120.4	1089.1	888.7	302.4	142.5	136.7	129.8	119.3	108.9	100.8	98.5
32.5°	1177.2	1141.3	818.0	198.1	124.0	119.3	112.4	99.6	85.7	76.5	74.2
35°	1258.3	1217.7	727.6	139.0	108.9	100.8	91.5	77.6	62.6	55.6	54.5
37.5°	1371.8	1317.4	614.1	112.4	96.2	84.6	70.7	56.8	46.3	40.6	39.4
40°	1510.9	1427.4	487.8	99.6	85.7	70.7	53.3	40.6	33.6	29.0	29.0
42.5°	1661.5	1530.5	359.2	91.5	75.3	57.9	39.4	29.0	24.3	22.0	20.9
45°	1816.7	1622.1	242.2	84.6	66.0	44.0	27.8	19.7	16.2	16.2	15.1
47.5°	1977.8	1683.5	156.4	76.5	55.6	32.4	18.5	13.9	11.6	11.6	11.6
50°	2137.7	1715.9	111.2	69.5	45.2	22.0	13.9	10.4	9.3	9.3	9.3
52.5°	2253.5	1695.1	89.2	60.2	34.8	16.2	10.4	8.1	7.0	7.0	7.0
55°	2354.3	1659.2	77.6	52.1	25.5	11.6	8.1	7.0	5.8	5.8	5.8
57.5°	2457.5	1612.8	69.5	44.0	18.5	8.1	5.8	4.6	4.6	4.6	4.6
60°	2551.3	1534.0	60.2	34.8	12.7	5.8	4.6	3.5	3.5	3.5	3.5
62.5°	2642.8	1466.8	52.1	26.6	9.3	4.6	2.3	2.3	1.2	1.2	1.2
65°	2695.0	1376.5	41.7	17.4	5.8	3.5	1.2	1.2	0.0	0.0	0.0
67.5°	2678.8	1268.7	29.0	10.4	3.5	2.3	1.2	0.0	0.0	0.0	0.0
70°	2566.4	1123.9	17.4	5.8	3.5	2.3	1.2	0.0	0.0	0.0	0.0
72.5°	2149.3	831.9	10.4	4.6	2.3	1.2	0.0	0.0	0.0	0.0	0.0
75°	1435.5	382.3	5.8	3.5	1.2	1.2	0.0	0.0	0.0	0.0	0.0
77.5°	656.9	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)