

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: P397954

Luminaire Tested: **ARCH-S-PA1-60-830-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397954
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-PA1-60-830-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 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: 5148 lumens
Efficiency: N/A
Efficacy: 80.4 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

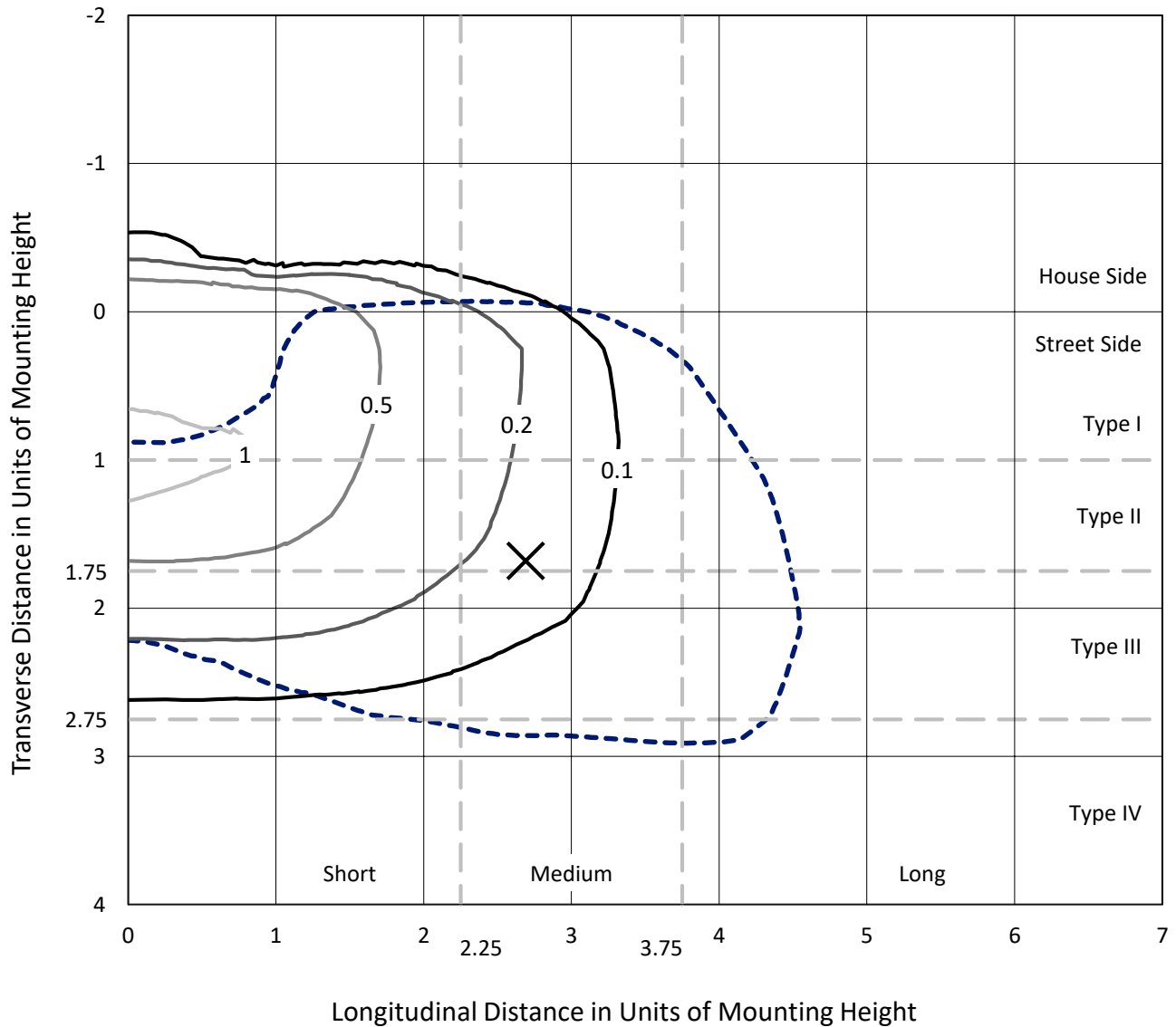


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

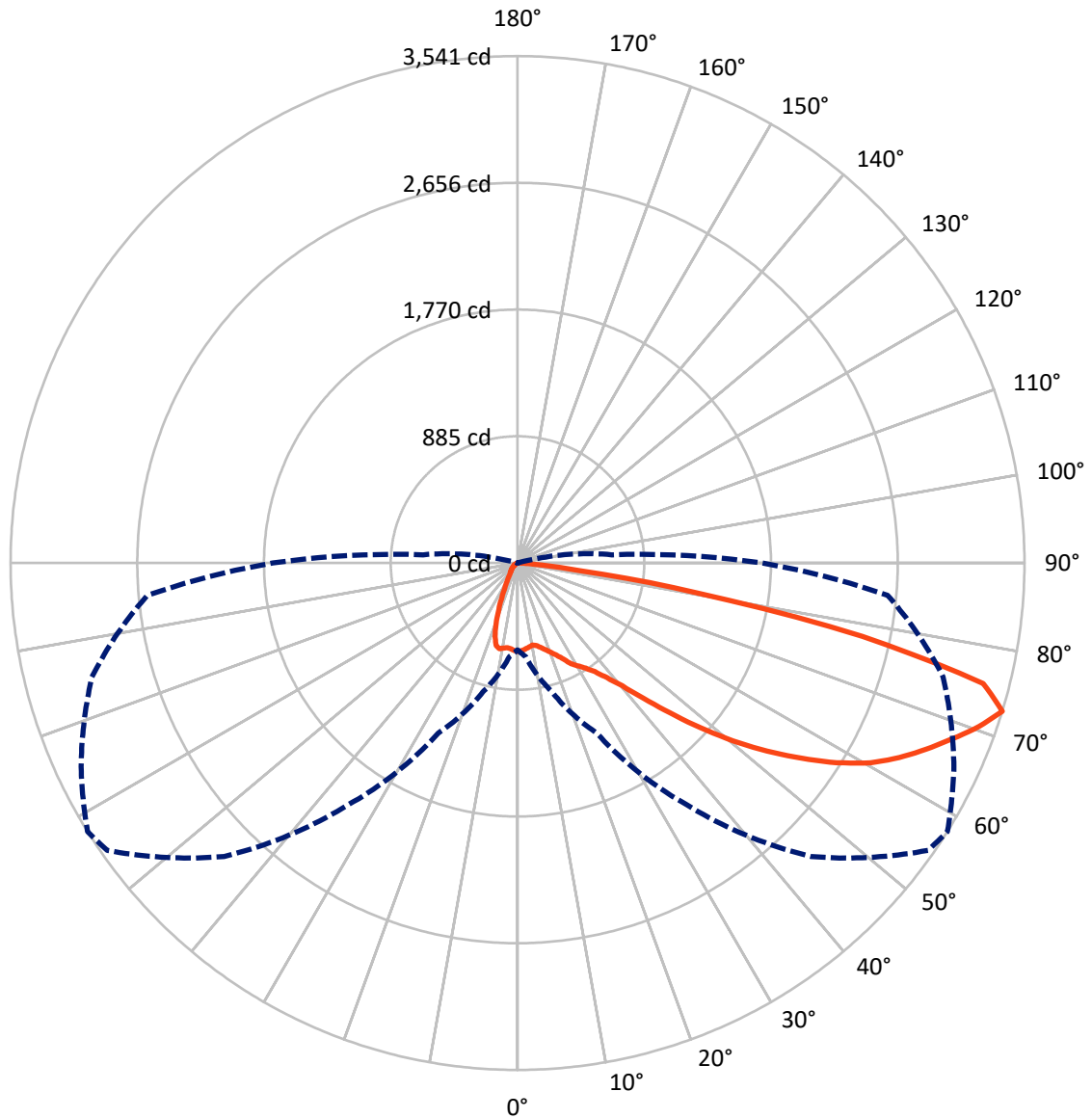


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Medium - Non-Cutoff

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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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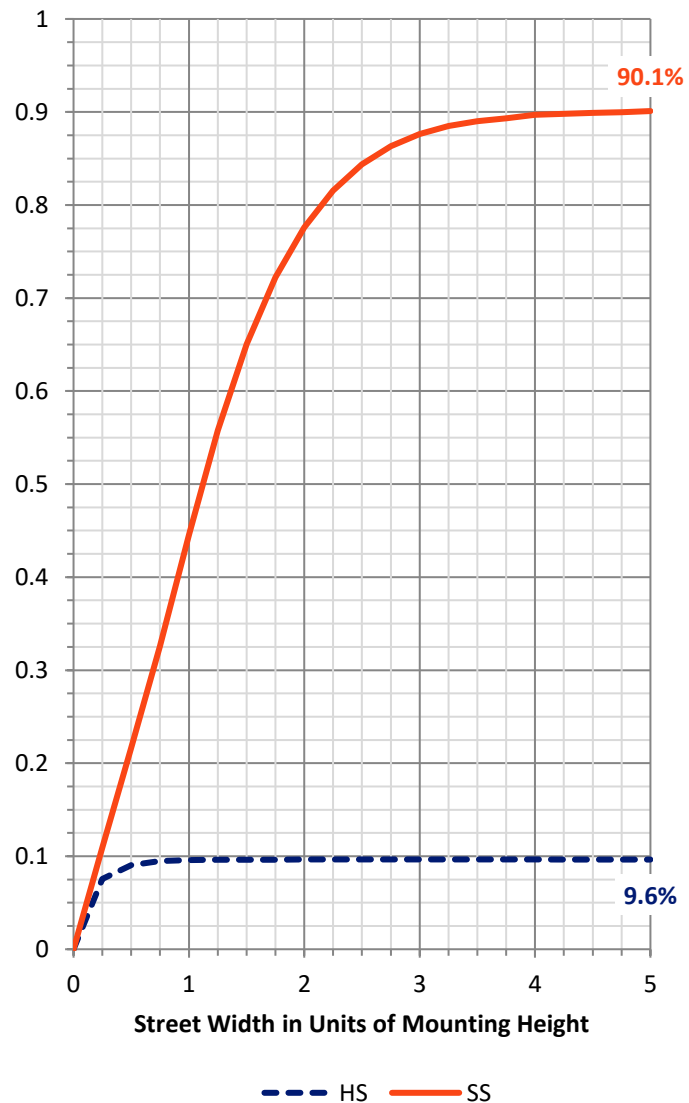
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	500.6	0.0	500.6
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	4647.4	0.0	4647.4
	% Fixture	90.3	0.0	90.3
Total	Lumens	5148.0	0.0	5148.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	1.1
10°-20°	147.7	2.9
20°-30°	232.0	4.5
30°-40°	400.0	7.8
40°-50°	761.1	14.8
50°-60°	1205.3	23.4
60°-70°	1406.5	27.3
70°-80°	880.9	17.1
80°-90°	57.8	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°	5148.0	100.0
0°-180°	5148.0	100.0



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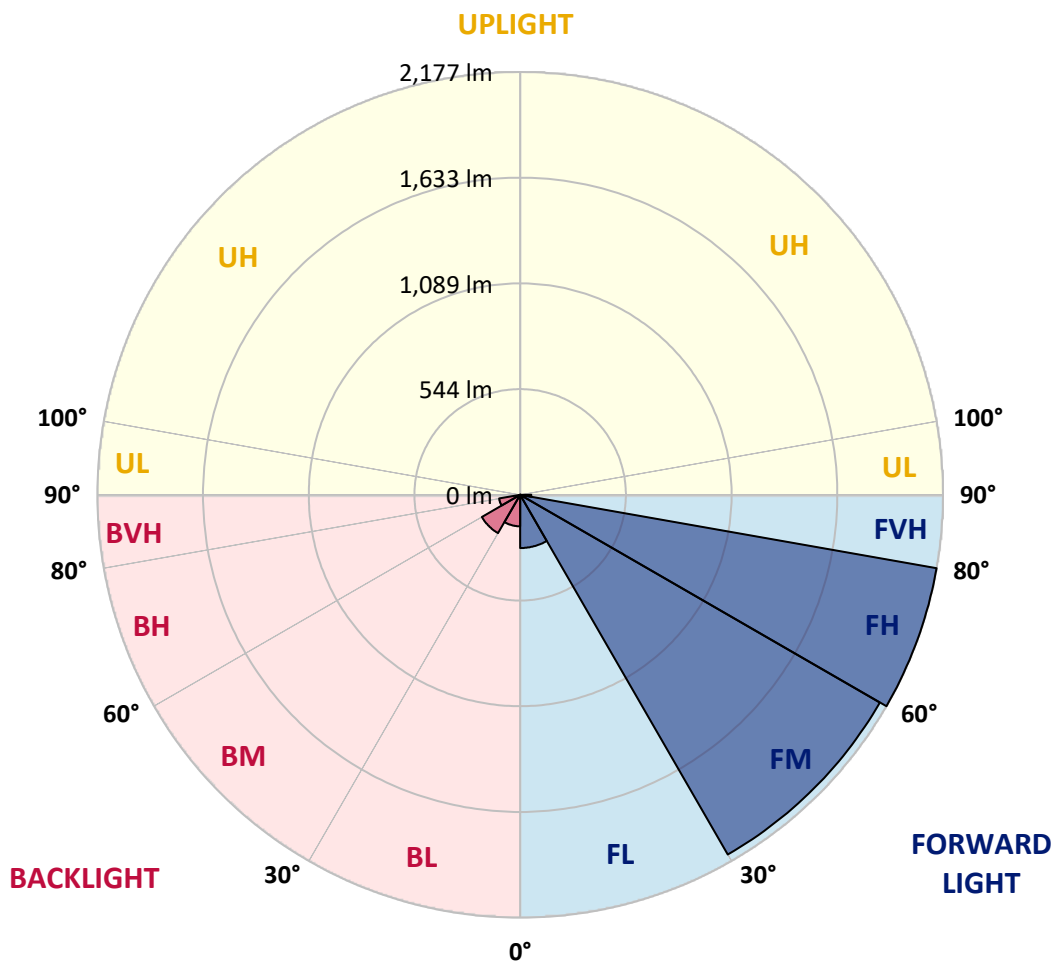
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	274.2	5.3			
FM	(30°-60°)	2138.7	41.5			
FH	(60°-80°)	2177.2	42.3			G2/5000
FVH	(80°-90°)	57.3	1.1			G1/100
BL	(0°-30°)	162.1	3.1	B1/500		
BM	(30°-60°)	227.8	4.4	B1/1000		
BH	(60°-80°)	110.2	2.1	B1/500		G1/500
BVH	(80°-90°)	0.6	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°	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7
2.5°	615.0	612.2	611.3	610.4	611.3	612.2	609.4	612.2	610.4	611.3	613.1
5°	592.9	590.1	589.2	590.1	592.9	597.5	599.3	602.1	602.1	604.8	605.8
7.5°	568.0	566.2	565.3	567.1	572.6	582.7	588.3	592.0	595.6	601.2	606.7
10°	554.2	553.3	552.4	555.1	560.7	569.9	577.2	582.7	596.6	612.2	622.3
12.5°	545.0	545.0	546.8	552.4	559.7	567.1	584.6	592.0	613.1	637.1	650.9
15°	537.6	537.6	540.4	550.5	560.7	578.1	603.9	612.2	637.1	666.5	684.9
17.5°	532.1	534.0	535.8	545.9	565.3	594.7	625.1	637.1	667.4	699.7	719.9
20°	533.0	534.9	535.8	545.9	573.5	614.0	652.7	666.5	701.5	735.6	755.8
22.5°	538.6	541.3	542.2	556.0	588.3	634.3	684.0	699.7	737.4	773.3	789.0
25°	561.6	563.4	557.9	569.9	609.4	665.6	724.5	741.1	778.8	812.0	824.9
27.5°	639.8	641.7	611.3	597.5	626.0	691.4	774.2	797.2	844.2	866.3	868.1
30°	809.2	811.1	751.2	685.9	665.6	713.5	801.9	834.1	894.8	919.7	908.6
32.5°	1027.4	1025.6	943.6	847.0	759.5	752.1	841.4	875.5	941.8	965.7	957.4
35°	1246.5	1249.3	1179.3	1033.8	908.6	824.9	892.1	931.7	1011.7	1045.8	1031.1
37.5°	1396.6	1415.0	1384.6	1227.2	1091.8	959.3	974.0	1016.4	1116.7	1162.7	1131.4
40°	1608.3	1603.7	1530.1	1414.1	1294.4	1158.1	1106.6	1126.8	1241.9	1303.6	1254.8
42.5°	1892.8	1883.6	1758.4	1645.1	1511.6	1400.2	1295.3	1291.6	1385.5	1457.3	1386.4
45°	2150.5	2136.7	2051.1	1941.6	1795.2	1667.2	1525.4	1493.2	1558.6	1619.4	1536.5
47.5°	2355.8	2332.8	2272.1	2214.1	2178.2	1979.3	1766.6	1717.9	1751.0	1796.1	1679.2
50°	2598.9	2535.4	2447.0	2412.0	2486.6	2332.8	1998.6	1951.7	1949.8	1975.6	1826.5
52.5°	2709.4	2594.3	2544.6	2574.0	2705.7	2661.5	2249.0	2181.8	2155.1	2157.9	1963.7
55°	2575.9	2563.0	2589.7	2681.7	2853.9	2828.1	2489.3	2406.5	2366.9	2317.2	2095.3
57.5°	2424.0	2463.5	2569.4	2745.3	3041.7	3002.1	2725.9	2632.0	2559.3	2445.1	2241.7
60°	2284.0	2324.5	2499.5	2760.0	3144.8	3169.7	2922.9	2833.6	2725.9	2575.9	2402.8
62.5°	2071.4	2102.7	2348.5	2738.8	3099.7	3267.2	3060.1	2992.9	2892.6	2700.1	2587.8
65°	1832.0	1852.3	2095.3	2569.4	3011.3	3256.2	3173.3	3135.6	3038.0	2830.0	2771.0
67.5°	1569.6	1593.6	1796.1	2264.7	2838.2	3204.6	3280.1	3276.4	3165.1	2973.6	2903.6
70°	1267.7	1269.5	1437.1	1878.0	2536.3	3101.5	3412.7	3421.0	3286.6	3081.3	2909.1
72.5°	606.7	656.4	931.7	1310.9	2061.2	2899.0	3499.2	3540.7	3363.0	3077.6	2595.2
75°	139.0	143.6	271.6	623.3	1208.8	2225.1	3282.9	3360.2	3177.0	2661.5	1828.3
77.5°	50.6	53.4	76.4	182.3	464.9	1149.8	2349.4	2462.6	2348.5	1720.6	864.5
80°	34.1	33.1	39.6	81.0	213.6	325.9	1201.4	1268.6	1158.1	587.3	207.1
82.5°	17.5	18.4	27.6	45.1	143.6	113.2	401.4	436.4	359.0	117.8	38.7
85°	8.3	8.3	15.7	28.5	60.8	39.6	89.3	107.7	96.7	51.6	12.9
87.5°	8.3	8.3	14.7	18.4	31.3	16.6	22.1	27.6	25.8	27.6	4.6
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°	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7
2.5°	613.1	612.2	611.3	613.1	612.2	614.0	614.0	615.9	615.9	614.0	613.1
5°	604.8	603.0	601.2	601.2	600.2	602.1	607.6	612.2	613.1	610.4	609.4
7.5°	605.8	605.8	603.9	600.2	593.8	593.8	593.8	599.3	602.1	600.2	599.3
10°	622.3	623.3	618.6	610.4	599.3	589.2	569.9	541.3	514.6	507.3	504.5
12.5°	650.9	651.8	642.6	627.9	604.8	545.0	471.4	403.2	350.8	336.0	333.3
15°	684.9	685.9	669.3	645.3	575.4	436.4	326.8	249.5	203.5	192.4	191.5
17.5°	719.9	718.1	693.2	647.2	487.9	309.3	198.9	159.3	147.3	144.5	145.5
20°	754.0	748.5	714.4	613.1	375.6	202.5	145.5	136.3	133.5	131.6	131.6
22.5°	785.3	774.2	731.9	545.9	263.3	145.5	129.8	128.0	124.3	121.5	120.6
25°	816.6	800.9	742.9	458.5	176.8	127.0	122.4	118.8	114.2	110.5	109.6
27.5°	854.3	832.2	737.4	348.0	132.6	117.8	114.2	108.6	102.2	96.7	94.8
30°	890.2	865.4	706.1	240.3	113.2	108.6	103.1	94.8	86.5	80.1	78.3
32.5°	935.3	906.8	649.9	157.4	98.5	94.8	89.3	79.2	68.1	60.8	58.9
35°	999.8	967.6	578.1	110.5	86.5	80.1	72.7	61.7	49.7	44.2	43.3
37.5°	1090.0	1046.7	487.9	89.3	76.4	67.2	56.2	45.1	36.8	32.2	31.3
40°	1200.5	1134.2	387.6	79.2	68.1	56.2	42.3	32.2	26.7	23.0	23.0
42.5°	1320.2	1216.1	285.4	72.7	59.8	46.0	31.3	23.0	19.3	17.5	16.6
45°	1443.5	1288.9	192.4	67.2	52.5	35.0	22.1	15.7	12.9	12.9	12.0
47.5°	1571.5	1337.6	124.3	60.8	44.2	25.8	14.7	11.0	9.2	9.2	9.2
50°	1698.5	1363.4	88.4	55.2	35.9	17.5	11.0	8.3	7.4	7.4	7.4
52.5°	1790.6	1346.9	70.9	47.9	27.6	12.9	8.3	6.4	5.5	5.5	5.5
55°	1870.7	1318.3	61.7	41.4	20.3	9.2	6.4	5.5	4.6	4.6	4.6
57.5°	1952.6	1281.5	55.2	35.0	14.7	6.4	4.6	3.7	3.7	3.7	3.7
60°	2027.2	1218.9	47.9	27.6	10.1	4.6	3.7	2.8	2.8	2.8	2.8
62.5°	2099.9	1165.5	41.4	21.2	7.4	3.7	1.8	1.8	0.9	0.9	0.9
65°	2141.3	1093.7	33.1	13.8	4.6	2.8	0.9	0.9	0.0	0.0	0.0
67.5°	2128.4	1008.1	23.0	8.3	2.8	1.8	0.9	0.0	0.0	0.0	0.0
70°	2039.1	893.0	13.8	4.6	2.8	1.8	0.9	0.0	0.0	0.0	0.0
72.5°	1707.7	661.0	8.3	3.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	1140.6	303.8	4.6	2.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0
77.5°	522.0	91.1	2.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	104.9	23.9	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.1	4.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.9	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)