

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: P397929

Luminaire Tested: **ARCH-S-PA1-60-750-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-60-750-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6362 lumens
Efficiency: N/A
Efficacy: 99.4 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

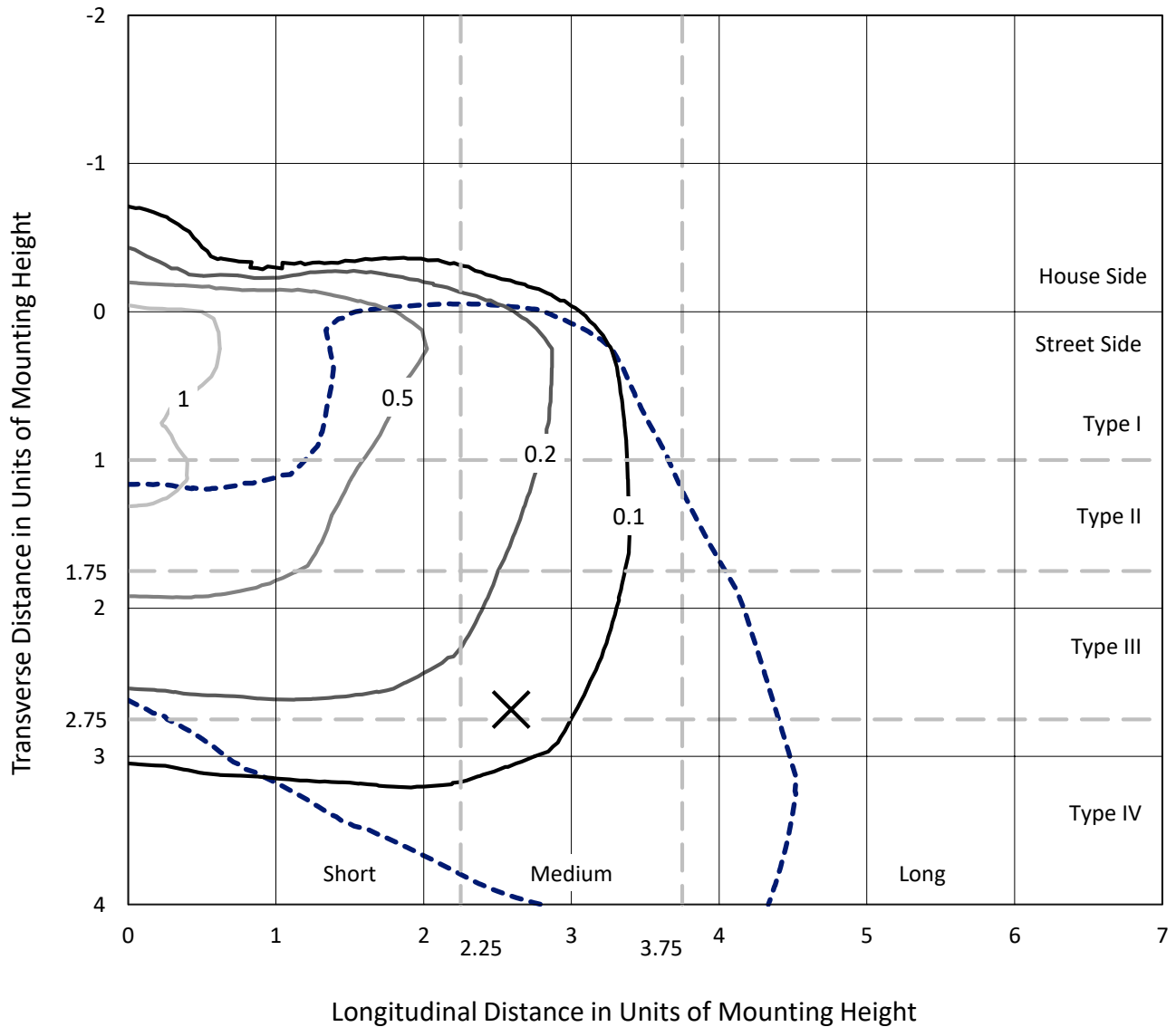


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

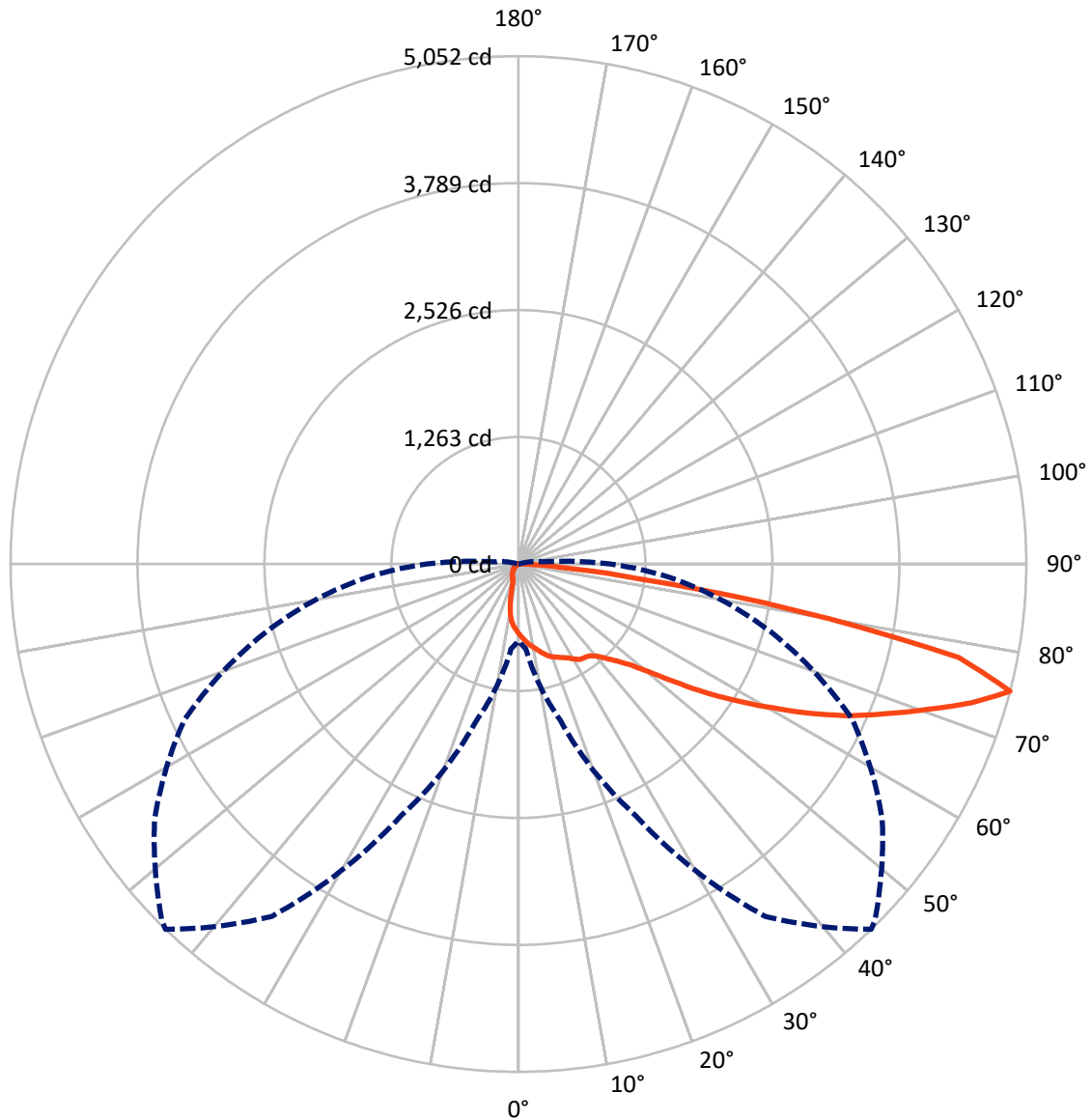


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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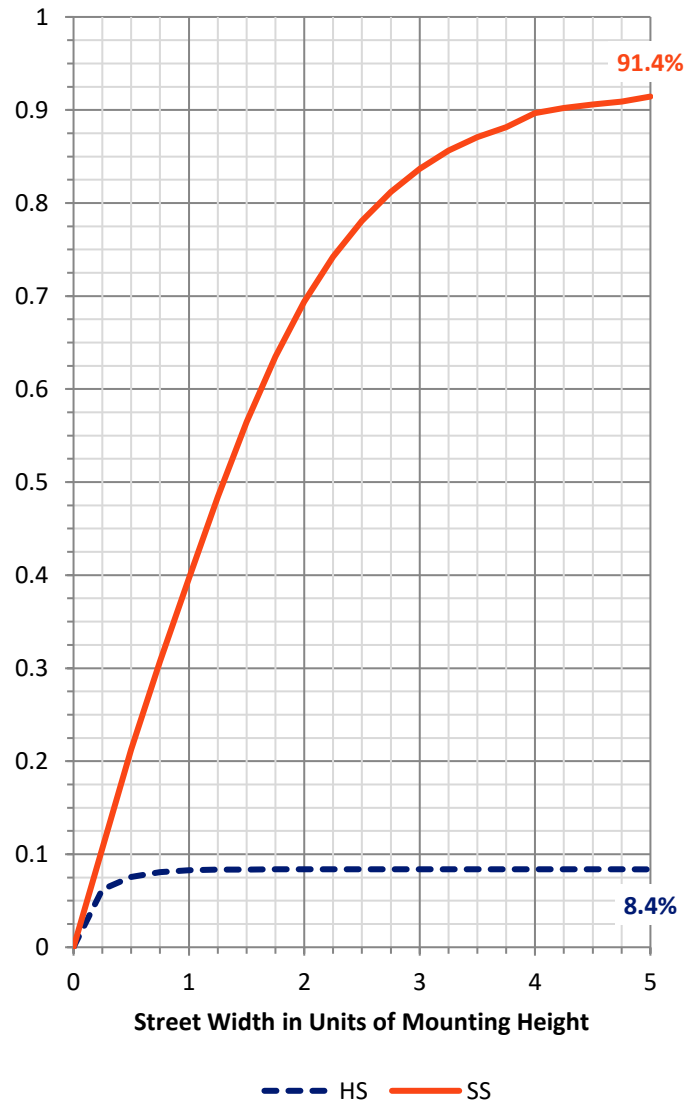
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	536.5	0.0	536.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5825.5	0.0	5825.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	6362.0	0.0	6362.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	1.0
10°-20°	183.0	2.9
20°-30°	302.0	4.7
30°-40°	438.3	6.9
40°-50°	712.5	11.2
50°-60°	1256.1	19.7
60°-70°	1805.2	28.4
70°-80°	1445.6	22.7
80°-90°	154.0	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°	6362.0	100.0
0°-180°	6362.0	100.0



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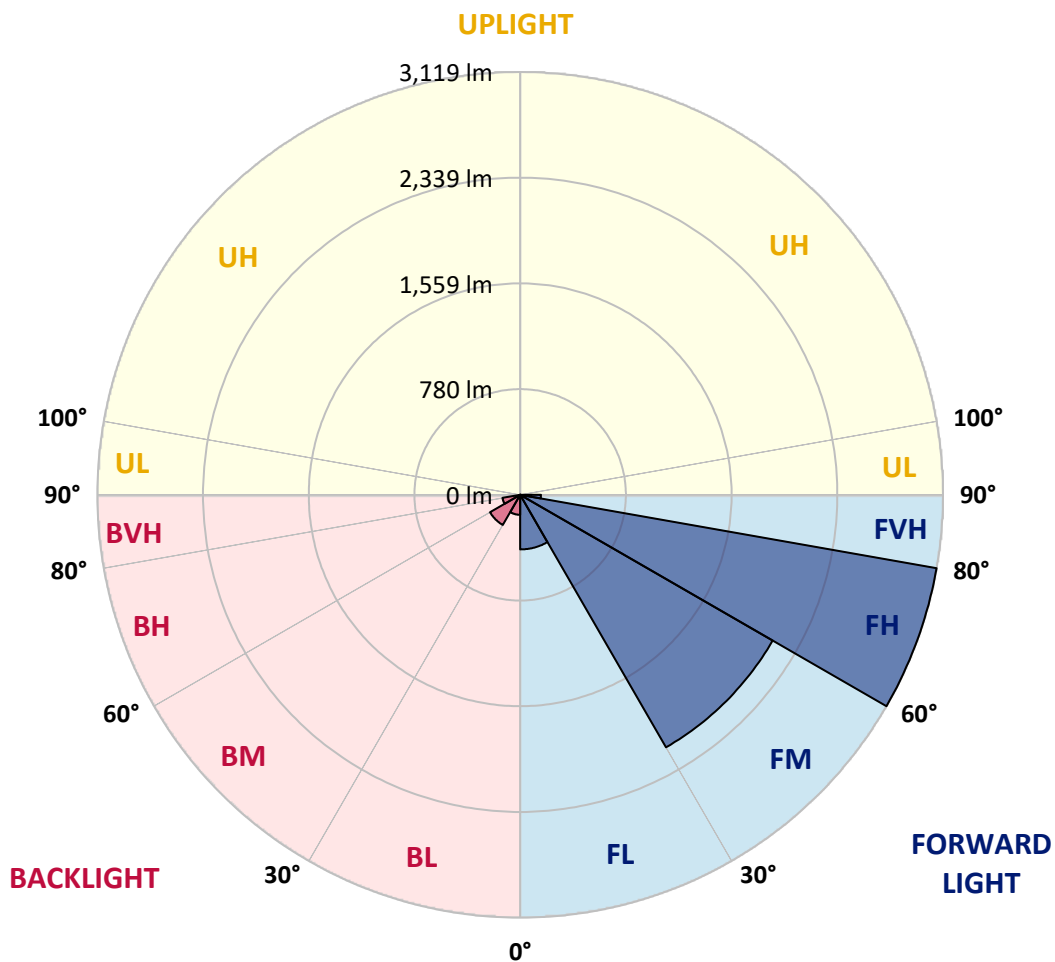
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	402.9	6.3			
FM	(30°-60°)	2150.4	33.8			
FH	(60°-80°)	3118.5	49.0			G2/5000
FVH	(80°-90°)	153.6	2.4			G2/225
BL	(0°-30°)	147.4	2.3	B1/500		
BM	(30°-60°)	256.5	4.0	B1/1000		
BH	(60°-80°)	132.3	2.1	B1/500		G1/500
BVH	(80°-90°)	0.4	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°	44°	45°	55°	65°	75°	85°
0°	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5
2.5°	754.7	753.5	750.0	744.1	738.3	732.4	731.2	721.8	711.3	703.0	696.0
5°	821.6	820.4	814.5	801.6	788.7	773.5	772.3	750.0	730.0	707.7	689.0
7.5°	890.8	888.5	877.9	858.0	835.7	812.2	809.8	777.0	747.6	718.3	691.3
10°	944.8	942.5	927.2	903.7	873.2	843.9	840.4	806.3	777.0	739.4	703.0
12.5°	997.6	992.9	973.0	947.2	909.6	881.4	877.9	842.7	807.5	768.8	724.2
15°	1046.9	1041.1	1022.3	989.4	949.5	922.5	920.2	882.6	846.2	801.6	752.3
17.5°	1081.0	1078.6	1056.3	1019.9	981.2	958.9	956.6	917.8	881.4	834.5	781.7
20°	1098.6	1098.6	1077.5	1037.5	1002.3	987.1	983.6	947.2	912.0	867.4	812.2
22.5°	1102.1	1105.6	1089.2	1045.8	1019.9	1007.0	1004.7	973.0	939.0	897.9	846.2
25°	1109.1	1109.1	1100.9	1054.0	1035.2	1031.7	1030.5	1002.3	971.8	930.7	880.3
27.5°	1117.4	1117.4	1111.5	1065.7	1058.7	1057.5	1056.3	1043.4	1018.8	970.6	920.2
30°	1138.5	1139.7	1135.0	1089.2	1084.5	1097.4	1099.8	1092.7	1062.2	1002.3	961.3
32.5°	1191.3	1180.7	1167.8	1105.6	1113.8	1130.3	1131.4	1117.4	1084.5	1036.4	1010.6
35°	1323.9	1261.7	1203.0	1119.7	1123.2	1139.7	1142.0	1140.8	1120.9	1079.8	1066.9
37.5°	1447.2	1359.1	1275.8	1152.6	1140.8	1158.4	1163.1	1183.1	1167.8	1139.7	1143.2
40°	1518.8	1484.7	1426.0	1242.9	1176.0	1203.0	1207.7	1238.2	1232.4	1220.6	1242.9
42.5°	1739.4	1741.8	1678.4	1377.9	1240.6	1284.0	1289.9	1314.5	1322.8	1328.6	1382.6
45°	1995.3	2003.5	1988.2	1620.9	1362.7	1376.7	1385.0	1417.8	1448.3	1485.9	1584.5
47.5°	2302.8	2295.7	2239.4	1917.8	1575.1	1496.5	1502.3	1565.7	1618.5	1700.7	1841.5
50°	2575.1	2592.7	2485.9	2194.8	1874.4	1685.4	1679.6	1741.8	1836.8	1951.9	2129.1
52.5°	2849.7	2823.9	2679.5	2469.5	2228.8	1942.5	1924.9	1958.9	2092.7	2228.8	2410.8
55°	2922.5	2924.8	2875.6	2769.9	2524.6	2254.7	2225.3	2223.0	2389.6	2482.4	2706.5
57.5°	3065.7	3071.6	3083.3	3104.4	2988.2	2566.9	2536.4	2503.5	2665.5	2719.4	3003.5
60°	3211.2	3218.3	3289.9	3403.7	3326.2	2903.7	2870.9	2793.4	2883.8	2956.5	3315.7
62.5°	3192.4	3241.7	3449.5	3676.0	3666.6	3273.4	3232.4	3045.7	3103.2	3166.6	3602.1
65°	2882.6	2935.4	3402.5	3751.1	4008.2	3638.5	3571.6	3306.3	3309.8	3386.1	3877.9
67.5°	2605.6	2663.1	3109.1	3719.4	4233.5	3965.9	3896.7	3568.0	3512.9	3639.6	4025.8
70°	2446.0	2503.5	2875.6	3620.8	4296.9	4328.6	4268.7	3867.3	3754.6	3870.8	3860.3
72.5°	1914.3	2004.7	2577.4	3433.1	4365.0	4717.1	4670.1	4246.4	3960.0	3629.1	2938.9
75°	762.9	846.2	1609.1	2762.9	4279.3	5051.6	5015.2	4416.6	3665.4	2591.5	1504.7
77.5°	230.0	246.5	447.2	1366.2	3137.3	4478.8	4467.1	3713.6	2593.9	1203.0	410.8
80°	76.3	84.5	137.3	376.8	1431.9	2798.1	2850.9	2366.2	1178.4	275.8	83.3
82.5°	31.7	35.2	69.2	151.4	507.0	1205.4	1187.8	1059.8	410.8	171.4	30.5
85°	8.2	10.6	31.7	86.9	185.4	415.5	436.6	355.6	232.4	142.0	9.4
87.5°	0.0	0.0	15.3	35.2	83.3	125.6	131.5	108.0	131.5	106.8	4.7
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°	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5
2.5°	690.1	684.3	673.7	666.7	657.3	654.9	650.2	644.4	643.2	637.3	638.5
5°	678.4	669.0	650.2	637.3	622.1	617.4	609.1	603.3	598.6	590.4	591.5
7.5°	676.0	662.0	636.1	611.5	586.8	569.2	544.6	524.6	508.2	490.6	494.1
10°	684.3	666.7	630.3	596.2	551.6	495.3	430.7	388.5	367.4	346.2	348.6
12.5°	700.7	679.6	632.6	581.0	490.6	394.4	305.2	247.6	232.4	223.0	224.2
15°	725.3	699.5	639.7	551.6	408.4	285.2	203.0	178.4	184.3	187.8	187.8
17.5°	751.2	721.8	645.5	498.8	315.7	199.5	165.5	163.1	171.4	179.6	179.6
20°	782.9	745.3	646.7	431.9	227.7	162.0	156.1	156.1	162.0	171.4	171.4
22.5°	813.4	771.1	636.1	355.6	173.7	150.2	150.2	150.2	153.8	163.1	164.3
25°	849.8	802.8	613.8	274.6	149.1	143.2	143.2	144.4	146.7	154.9	156.1
27.5°	888.5	835.7	576.3	200.7	136.1	135.0	136.1	137.3	138.5	146.7	149.1
30°	933.1	872.1	528.2	150.2	124.4	124.4	127.9	130.3	130.3	137.3	139.7
32.5°	984.7	920.2	470.7	124.4	112.7	111.5	117.4	120.9	120.9	126.8	129.1
35°	1049.3	969.5	401.4	110.3	103.3	100.9	103.3	109.2	111.5	116.2	117.4
37.5°	1135.0	1028.2	327.5	102.1	96.2	91.5	91.5	92.7	97.4	102.1	103.3
40°	1244.1	1092.7	254.7	96.2	89.2	84.5	81.0	79.8	78.6	82.2	84.5
42.5°	1381.4	1165.5	190.1	90.4	83.3	76.3	71.6	66.9	61.0	59.9	61.0
45°	1557.5	1254.7	140.8	85.7	79.8	69.2	61.0	52.8	42.3	38.7	39.9
47.5°	1765.2	1347.4	110.3	81.0	77.5	61.0	50.5	36.4	25.8	23.5	24.6
50°	1985.9	1436.6	93.9	75.1	72.8	52.8	36.4	22.3	15.3	15.3	16.4
52.5°	2173.7	1487.1	85.7	70.4	65.7	43.4	23.5	12.9	9.4	9.4	10.6
55°	2355.6	1514.1	79.8	65.7	56.3	30.5	12.9	8.2	5.9	5.9	5.9
57.5°	2543.4	1525.8	72.8	59.9	44.6	18.8	7.0	4.7	3.5	3.5	3.5
60°	2710.1	1503.5	62.2	49.3	29.3	9.4	3.5	3.5	2.3	1.2	1.2
62.5°	2849.7	1461.2	43.4	35.2	17.6	4.7	2.3	1.2	0.0	0.0	0.0
65°	2935.4	1393.2	28.2	23.5	10.6	3.5	1.2	0.0	0.0	0.0	0.0
67.5°	2910.8	1265.2	17.6	15.3	4.7	2.3	1.2	0.0	0.0	0.0	0.0
70°	2626.7	1037.5	12.9	9.4	3.5	1.2	0.0	0.0	0.0	0.0	0.0
72.5°	1893.2	701.9	9.4	5.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	910.8	250.0	5.9	4.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	223.0	55.2	3.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	49.3	10.6	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.4	4.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	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)