

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: P397911

Luminaire Tested: **ARCH-S-PA1-60-730-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397911
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-PA1-60-730-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 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: 5794 lumens
Efficiency: N/A
Efficacy: 90.5 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

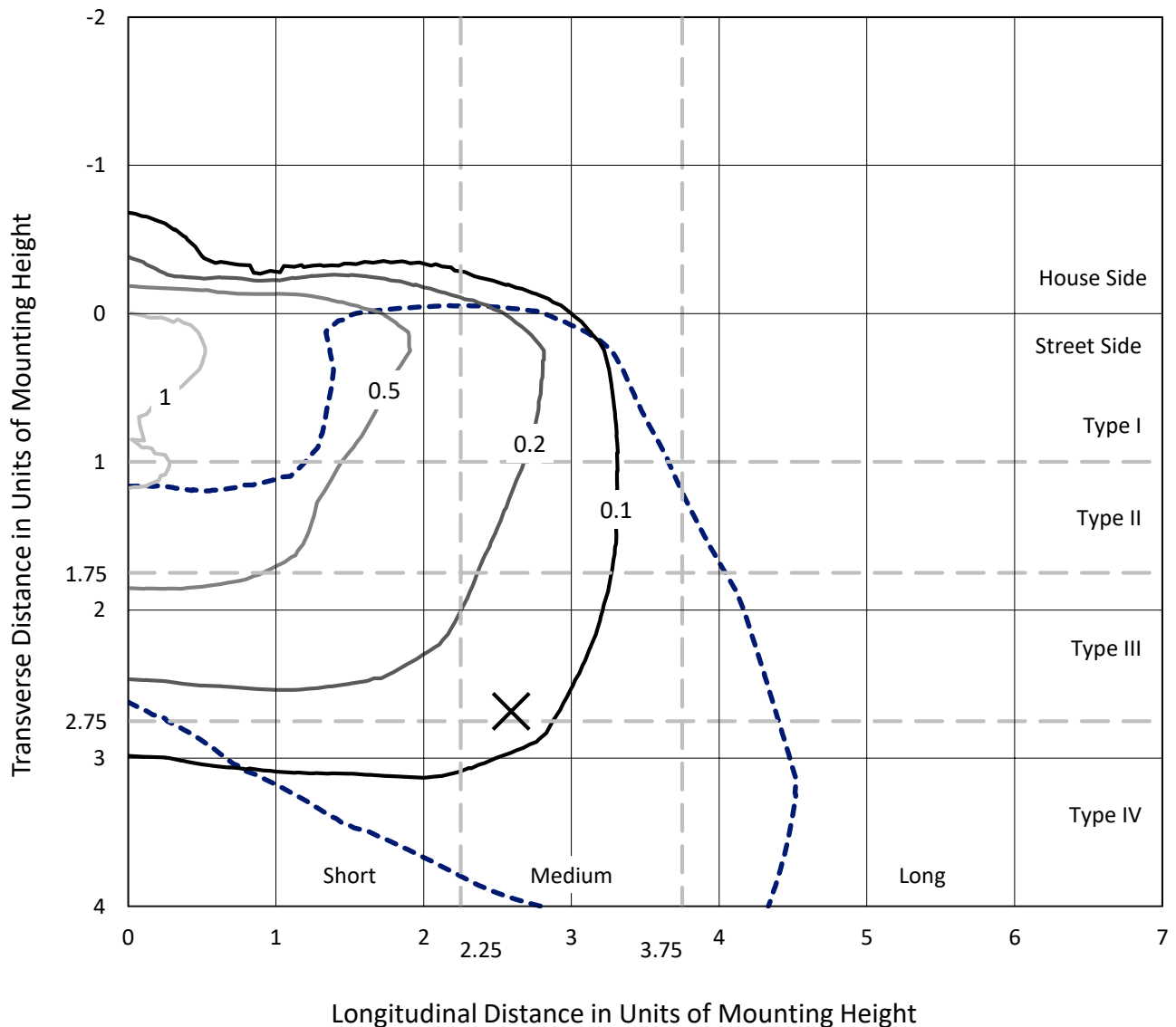
Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

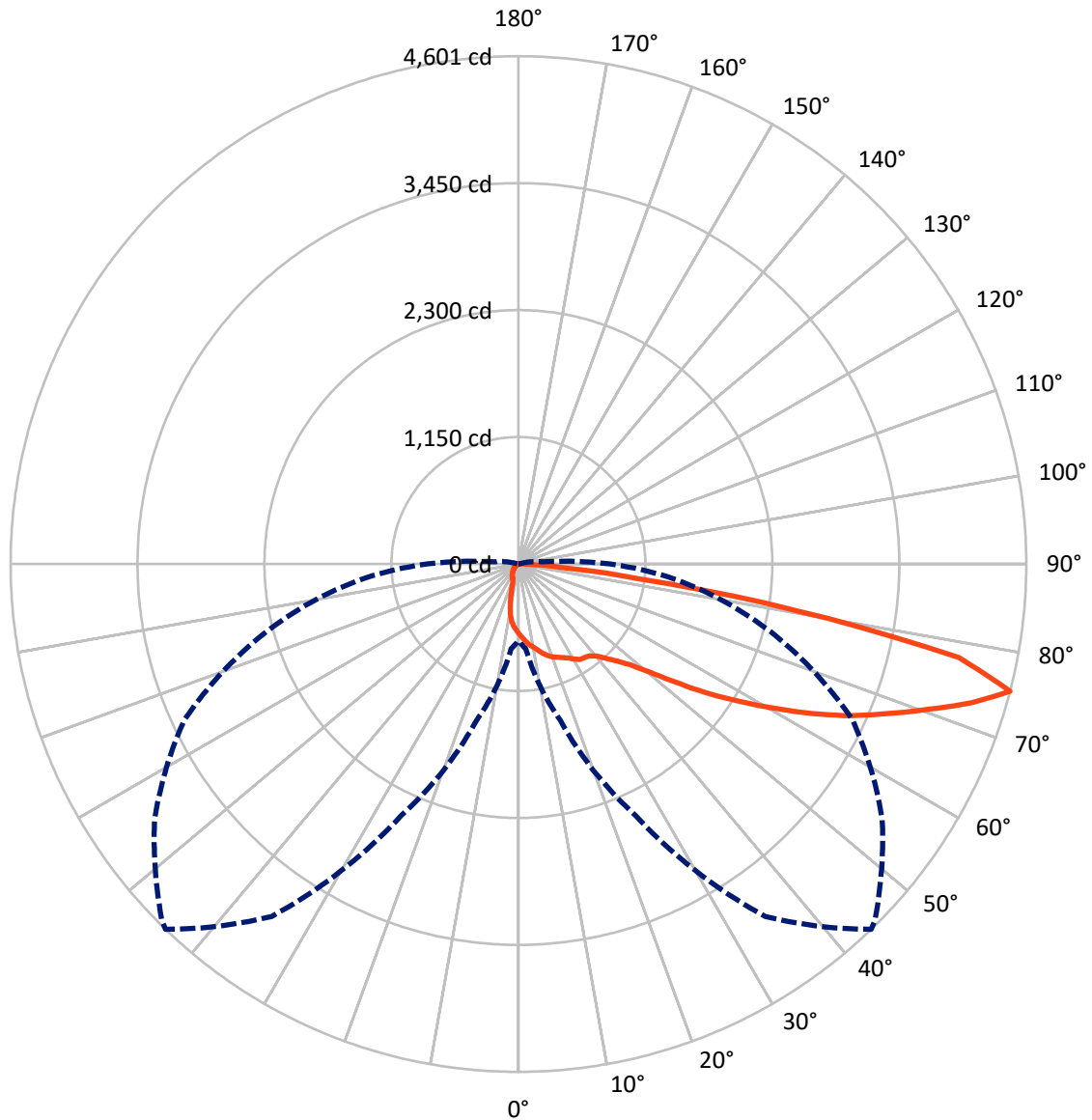


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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



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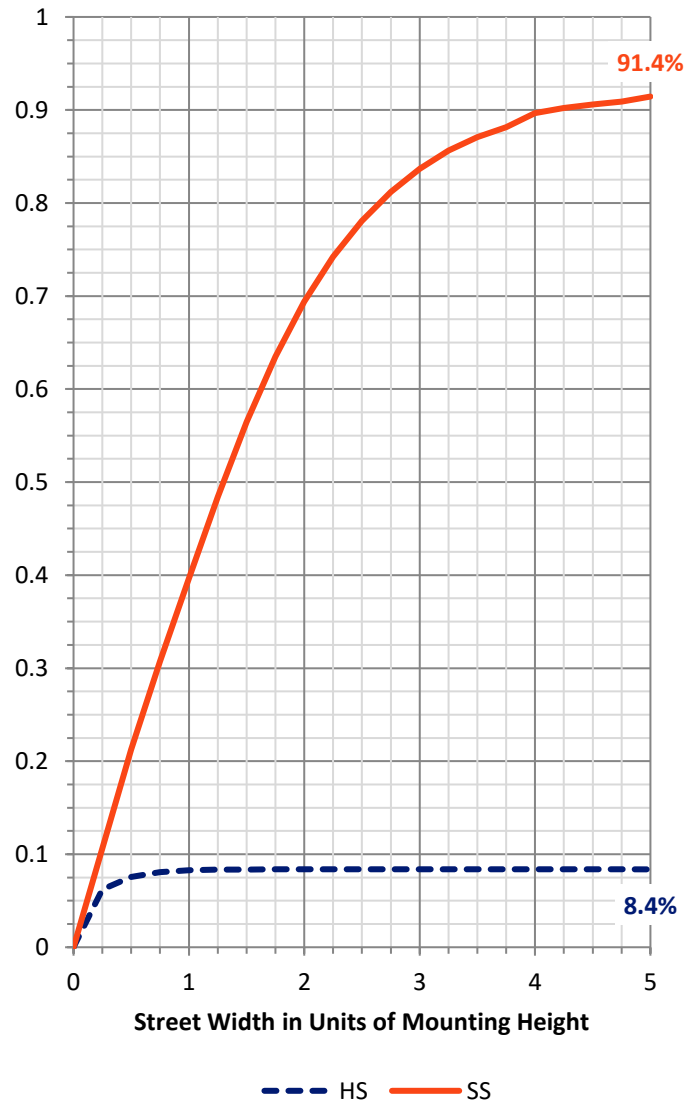
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	488.6	0.0	488.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5305.4	0.0	5305.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	5794.0	0.0	5794.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	1.0
10°-20°	166.7	2.9
20°-30°	275.0	4.7
30°-40°	399.2	6.9
40°-50°	648.9	11.2
50°-60°	1143.9	19.7
60°-70°	1644.1	28.4
70°-80°	1316.5	22.7
80°-90°	140.3	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°	5794.0	100.0
0°-180°	5794.0	100.0



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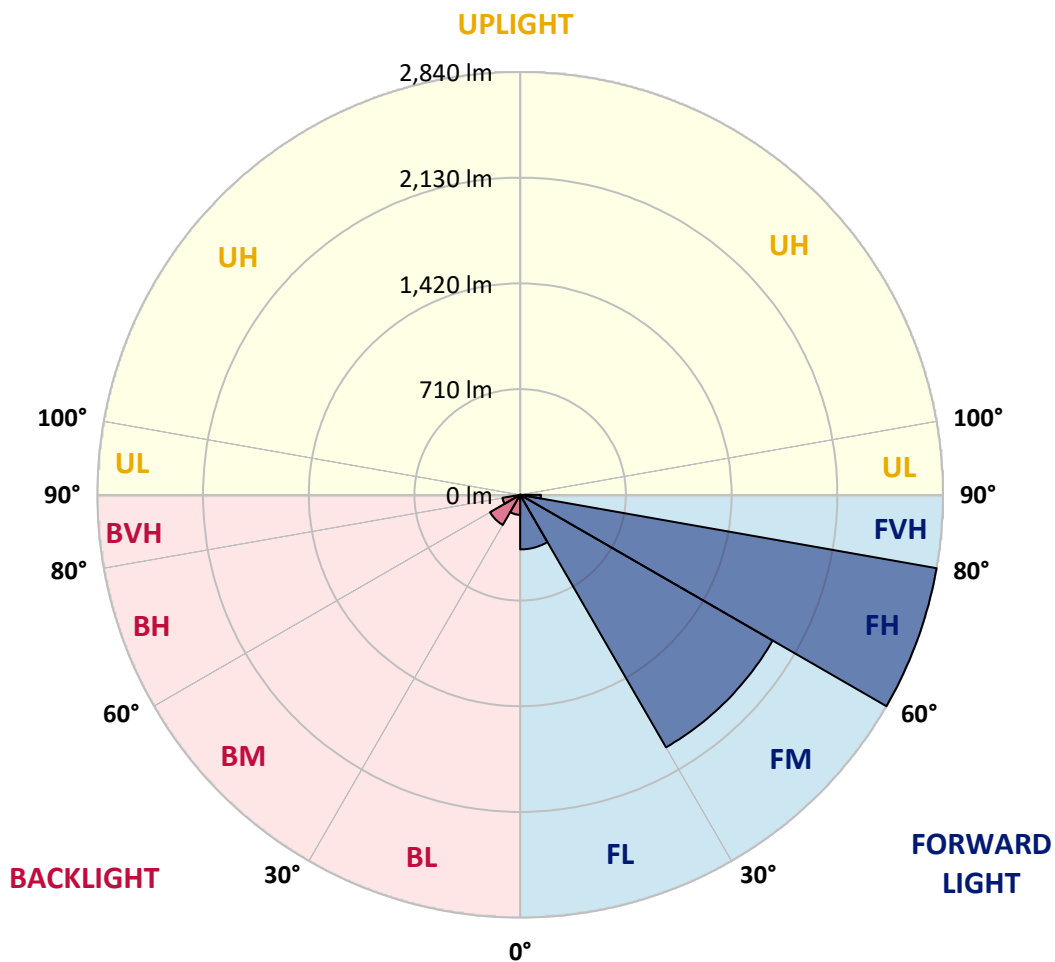
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	366.9	6.3			
FM (30°-60°)	1958.4	33.8			
FH (60°-80°)	2840.1	49.0			G2/5000
FVH (80°-90°)	139.9	2.4			G2/225
BL (0°-30°)	134.2	2.3	B1/500		
BM (30°-60°)	233.6	4.0	B1/1000		
BH (60°-80°)	120.5	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°	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7
2.5°	687.3	686.2	683.0	677.7	672.3	667.0	665.9	657.4	647.8	640.3	633.9
5°	748.2	747.2	741.8	730.1	718.3	704.4	703.3	683.0	664.9	644.6	627.4
7.5°	811.3	809.2	799.5	781.4	761.1	739.7	737.5	707.6	680.9	654.2	629.6
10°	860.5	858.3	844.4	823.1	795.3	768.5	765.3	734.3	707.6	673.4	640.3
12.5°	908.6	904.3	886.1	862.6	828.4	802.7	799.5	767.5	735.4	700.1	659.5
15°	953.5	948.1	931.0	901.1	864.7	840.2	838.0	803.8	770.7	730.1	685.2
17.5°	984.5	982.3	962.0	928.9	893.6	873.3	871.2	835.9	802.7	760.0	711.9
20°	1000.5	1000.5	981.3	944.9	912.8	899.0	895.7	862.6	830.5	789.9	739.7
22.5°	1003.7	1006.9	991.9	952.4	928.9	917.1	915.0	886.1	855.1	817.7	770.7
25°	1010.1	1010.1	1002.6	959.9	942.8	939.6	938.5	912.8	885.1	847.6	801.7
27.5°	1017.6	1017.6	1012.3	970.6	964.2	963.1	962.0	950.3	927.8	884.0	838.0
30°	1036.8	1037.9	1033.6	991.9	987.7	999.4	1001.6	995.2	967.4	912.8	875.4
32.5°	1084.9	1075.3	1063.6	1006.9	1014.4	1029.4	1030.4	1017.6	987.7	943.8	920.3
35°	1205.7	1149.1	1095.6	1019.7	1022.9	1037.9	1040.0	1039.0	1020.8	983.4	971.6
37.5°	1318.0	1237.8	1161.9	1049.7	1039.0	1055.0	1059.3	1077.5	1063.6	1037.9	1041.1
40°	1383.2	1352.2	1298.7	1132.0	1071.0	1095.6	1099.9	1127.7	1122.4	1111.7	1132.0
42.5°	1584.1	1586.3	1528.5	1254.9	1129.8	1169.4	1174.7	1197.2	1204.7	1210.0	1259.2
45°	1817.1	1824.6	1810.7	1476.2	1241.0	1253.8	1261.3	1291.2	1319.0	1353.2	1443.0
47.5°	2097.2	2090.8	2039.5	1746.6	1434.5	1362.9	1368.2	1425.9	1474.0	1548.8	1677.1
50°	2345.2	2361.2	2263.9	1998.9	1707.0	1534.9	1529.6	1586.3	1672.8	1777.6	1939.0
52.5°	2595.3	2571.8	2440.3	2249.0	2029.9	1769.0	1753.0	1784.0	1905.9	2029.9	2195.5
55°	2661.6	2663.7	2618.8	2522.6	2299.2	2053.4	2026.6	2024.5	2176.3	2260.7	2464.9
57.5°	2792.0	2797.3	2808.0	2827.3	2721.4	2337.7	2309.9	2280.0	2427.5	2476.7	2735.3
60°	2924.5	2930.9	2996.1	3099.8	3029.3	2644.5	2614.5	2544.0	2626.3	2692.6	3019.7
62.5°	2907.4	2952.3	3141.5	3347.8	3339.3	2981.2	2943.8	2773.8	2826.2	2883.9	3280.5
65°	2625.2	2673.3	3098.8	3416.2	3650.3	3313.6	3252.7	3011.1	3014.3	3083.8	3531.7
67.5°	2373.0	2425.3	2831.5	3387.4	3855.5	3611.8	3548.8	3249.5	3199.2	3314.7	3666.3
70°	2227.6	2280.0	2618.8	3297.6	3913.3	3942.1	3887.6	3522.0	3419.4	3525.3	3515.6
72.5°	1743.4	1825.7	2347.3	3126.6	3975.3	4295.9	4253.2	3867.3	3606.5	3305.1	2676.5
75°	694.8	770.7	1465.5	2516.2	3897.2	4600.6	4567.4	4022.3	3338.2	2360.1	1370.3
77.5°	209.5	224.5	407.3	1244.2	2857.2	4078.9	4068.3	3382.0	2362.3	1095.6	374.1
80°	69.5	77.0	125.1	343.1	1304.1	2548.3	2596.4	2154.9	1073.2	251.2	75.9
82.5°	28.9	32.1	63.1	137.9	461.8	1097.8	1081.7	965.2	374.1	156.1	27.8
85°	7.5	9.6	28.9	79.1	168.9	378.4	397.6	323.9	211.6	129.3	8.6
87.5°	0.0	0.0	13.9	32.1	75.9	114.4	119.7	98.3	119.7	97.3	4.3
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°	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7
2.5°	628.5	623.2	613.6	607.1	598.6	596.4	592.2	586.8	585.8	580.4	581.5
5°	617.8	609.3	592.2	580.4	566.5	562.2	554.8	549.4	545.1	537.7	538.7
7.5°	615.7	602.9	579.3	556.9	534.5	518.4	496.0	477.8	462.8	446.8	450.0
10°	623.2	607.1	574.0	543.0	502.4	451.1	392.3	353.8	334.6	315.3	317.5
12.5°	638.1	618.9	576.1	529.1	446.8	359.2	277.9	225.5	211.6	203.1	204.2
15°	660.6	637.1	582.6	502.4	372.0	259.7	184.9	162.5	167.8	171.0	171.0
17.5°	684.1	657.4	587.9	454.3	287.5	181.7	150.7	148.6	156.1	163.5	163.5
20°	713.0	678.8	589.0	393.4	207.4	147.5	142.2	142.2	147.5	156.1	156.1
22.5°	740.8	702.3	579.3	323.9	158.2	136.8	136.8	136.8	140.0	148.6	149.6
25°	773.9	731.1	559.0	250.1	135.8	130.4	130.4	131.5	133.6	141.1	142.2
27.5°	809.2	761.1	524.8	182.8	124.0	122.9	124.0	125.1	126.1	133.6	135.8
30°	849.8	794.2	481.0	136.8	113.3	113.3	116.5	118.6	118.6	125.1	127.2
32.5°	896.8	838.0	428.6	113.3	102.6	101.5	106.9	110.1	110.1	115.4	117.6
35°	955.6	882.9	365.6	100.5	94.1	91.9	94.1	99.4	101.5	105.8	106.9
37.5°	1033.6	936.4	298.2	93.0	87.7	83.4	83.4	84.4	88.7	93.0	94.1
40°	1133.0	995.2	232.0	87.7	81.2	77.0	73.8	72.7	71.6	74.8	77.0
42.5°	1258.1	1061.4	173.2	82.3	75.9	69.5	65.2	60.9	55.6	54.5	55.6
45°	1418.4	1142.7	128.3	78.0	72.7	63.1	55.6	48.1	38.5	35.3	36.3
47.5°	1607.6	1227.1	100.5	73.8	70.5	55.6	46.0	33.1	23.5	21.4	22.4
50°	1808.6	1308.3	85.5	68.4	66.3	48.1	33.1	20.3	13.9	13.9	15.0
52.5°	1979.6	1354.3	78.0	64.1	59.9	39.5	21.4	11.8	8.6	8.6	9.6
55°	2145.3	1378.9	72.7	59.9	51.3	27.8	11.8	7.5	5.3	5.3	5.3
57.5°	2316.3	1389.6	66.3	54.5	40.6	17.1	6.4	4.3	3.2	3.2	3.2
60°	2468.1	1369.3	56.7	44.9	26.7	8.6	3.2	3.2	2.1	1.1	1.1
62.5°	2595.3	1330.8	39.5	32.1	16.0	4.3	2.1	1.1	0.0	0.0	0.0
65°	2673.3	1268.8	25.7	21.4	9.6	3.2	1.1	0.0	0.0	0.0	0.0
67.5°	2650.9	1152.3	16.0	13.9	4.3	2.1	1.1	0.0	0.0	0.0	0.0
70°	2392.2	944.9	11.8	8.6	3.2	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	1724.1	639.2	8.6	5.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	829.5	227.7	5.3	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	203.1	50.2	3.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	44.9	9.6	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.0	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	1.1	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)