

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: P397909

Luminaire Tested: **ARCH-S-PA1-60-730-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397909
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-PA1-60-730-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 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: 5901 lumens
Efficiency: N/A
Efficacy: 92.2 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

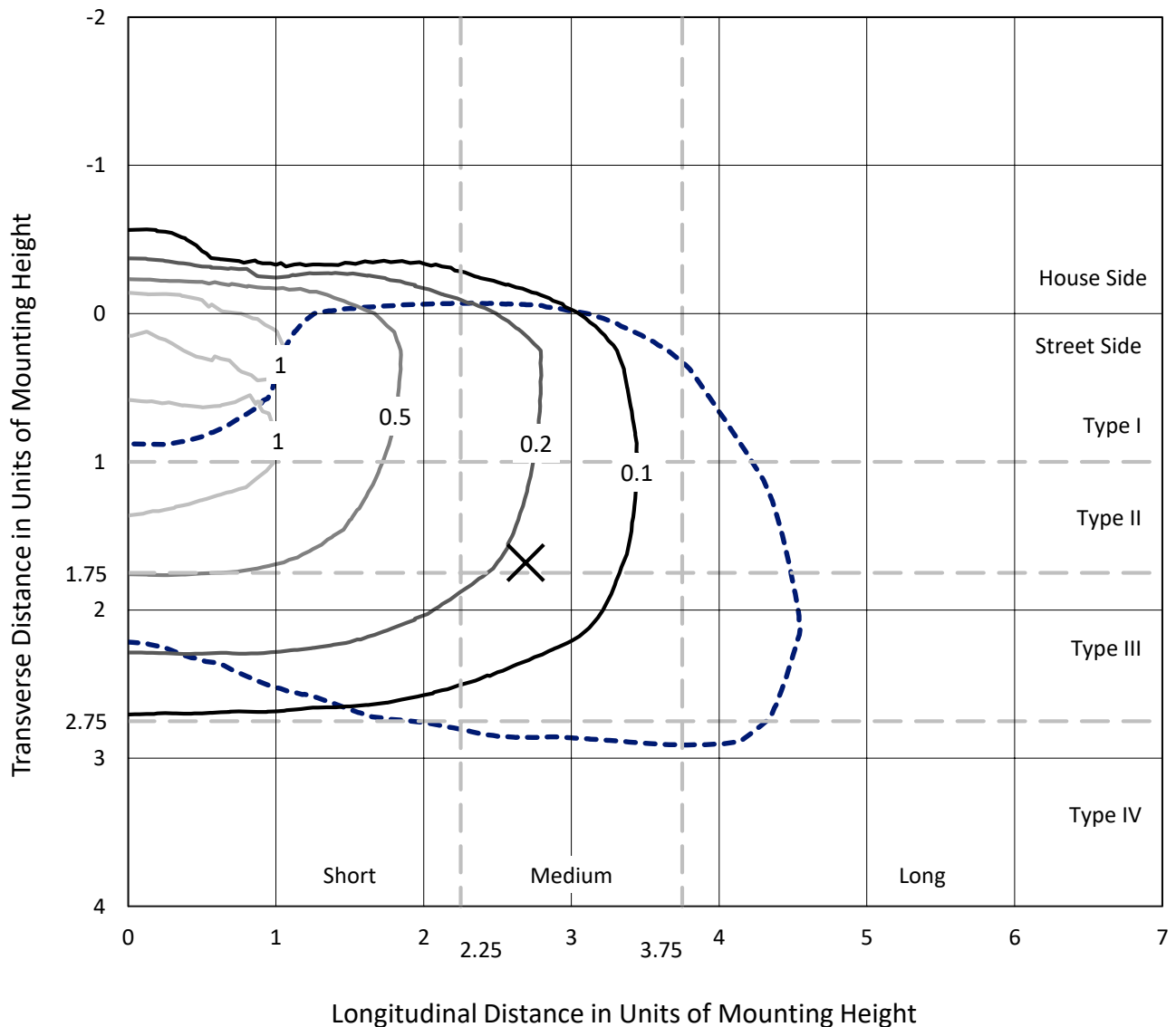
Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P397909
 CATALOG NUMBER: ARCH-S-PA1-60-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

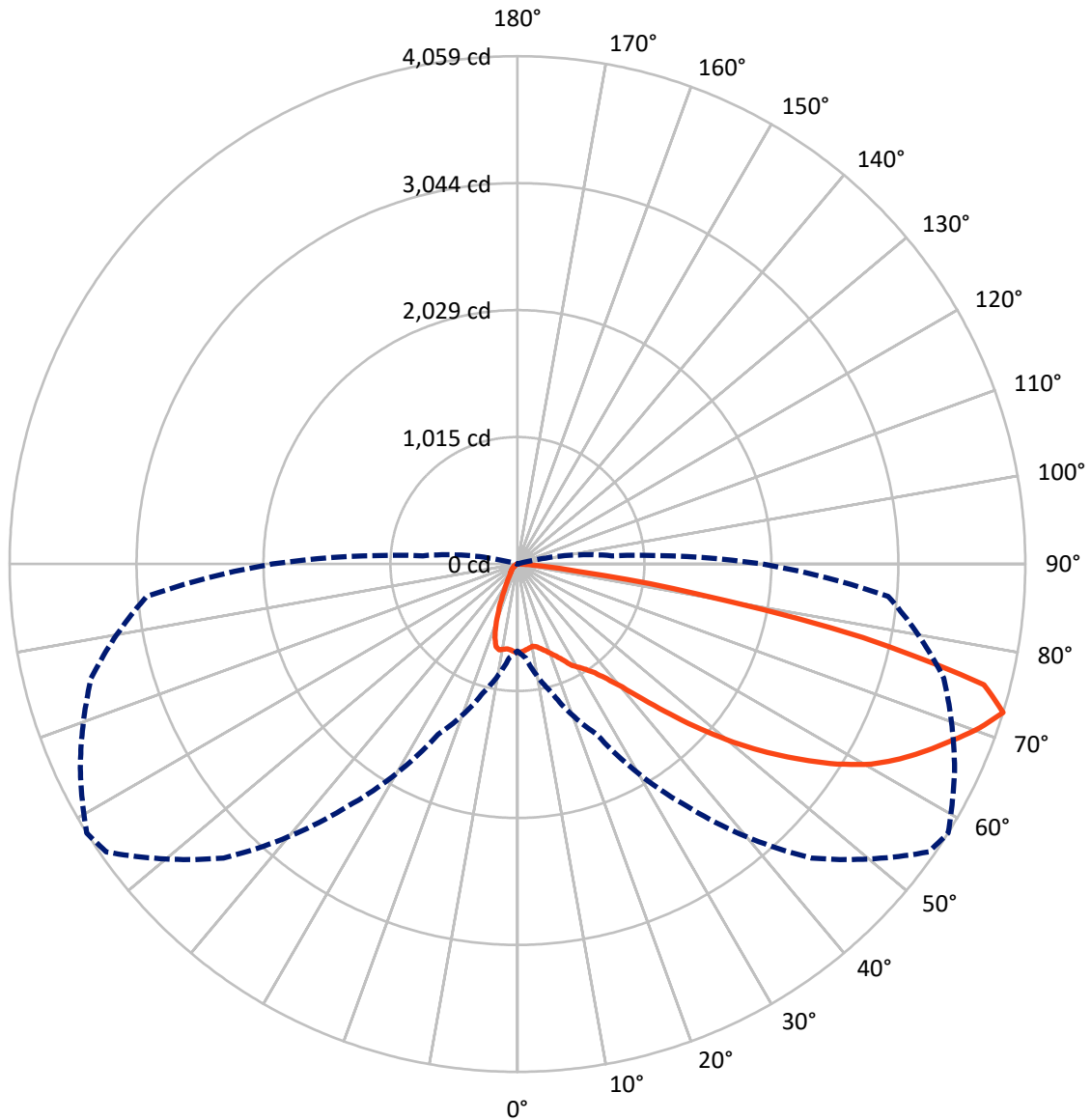


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P397909

CATALOG NUMBER: ARCH-S-PA1-60-730-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P397909

CATALOG NUMBER: ARCH-S-PA1-60-730-U-T3-HSS

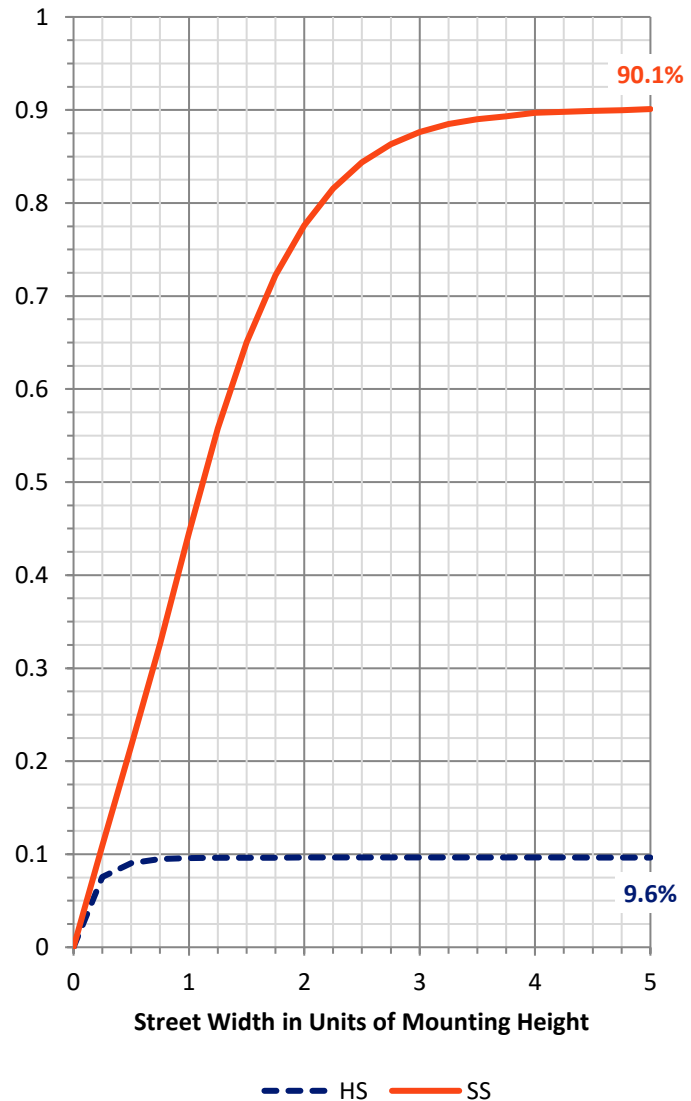
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	573.9	0.0	573.9
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	5327.2	0.0	5327.2
	% Fixture	90.3	0.0	90.3
Total	Lumens	5901.0	0.0	5901.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	1.1
10°-20°	169.3	2.9
20°-30°	265.9	4.5
30°-40°	458.6	7.8
40°-50°	872.4	14.8
50°-60°	1381.6	23.4
60°-70°	1612.2	27.3
70°-80°	1009.7	17.1
80°-90°	66.3	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°	5901.0	100.0
0°-180°	5901.0	100.0



REPORT NUMBER: P397909

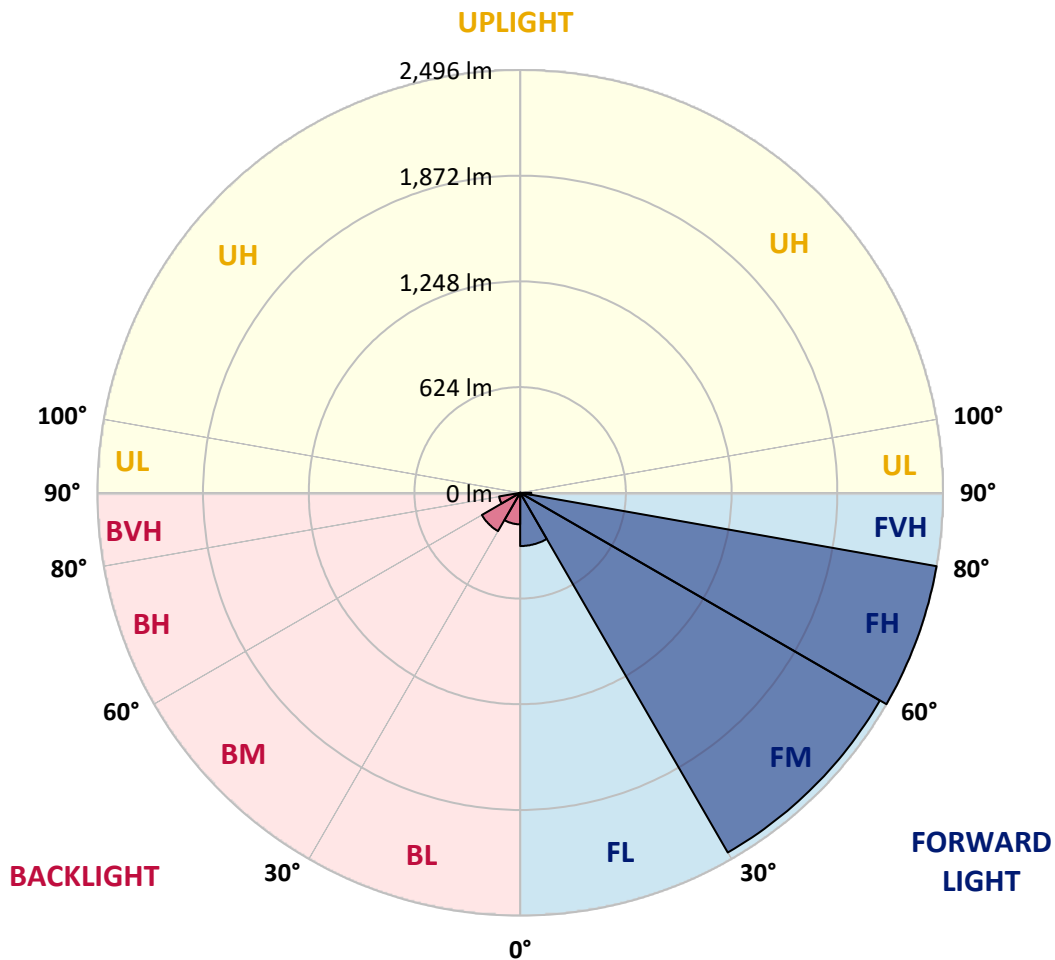
CATALOG NUMBER: ARCH-S-PA1-60-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	314.3	5.3			
FM	(30°-60°)	2451.5	41.5			
FH	(60°-80°)	2495.7	42.3			G2/5000
FVH	(80°-90°)	65.6	1.1			G1/100
BL	(0°-30°)	185.8	3.1	B1/500		
BM	(30°-60°)	261.1	4.4	B1/1000		
BH	(60°-80°)	126.3	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





REPORT NUMBER: P397909

CATALOG NUMBER: ARCH-S-PA1-60-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1
2.5°	704.9	701.8	700.7	699.6	700.7	701.8	698.6	701.8	699.6	700.7	702.8
5°	679.6	676.4	675.4	676.4	679.6	684.9	687.0	690.1	690.1	693.3	694.4
7.5°	651.1	649.0	647.9	650.0	656.4	668.0	674.3	678.5	682.8	689.1	695.4
10°	635.3	634.2	633.2	636.3	642.7	653.2	661.7	668.0	683.8	701.8	713.4
12.5°	624.7	624.7	626.8	633.2	641.6	650.0	670.1	678.5	702.8	730.2	746.1
15°	616.3	616.3	619.4	631.0	642.7	662.7	692.3	701.8	730.2	764.0	785.1
17.5°	609.9	612.1	614.2	625.8	647.9	681.7	716.5	730.2	765.1	802.0	825.2
20°	611.0	613.1	614.2	625.8	657.4	703.9	748.2	764.0	804.1	843.2	866.4
22.5°	617.3	620.5	621.6	637.4	674.3	727.1	784.1	802.0	845.3	886.4	904.4
25°	643.7	645.8	639.5	653.2	698.6	763.0	830.5	849.5	892.8	930.7	945.5
27.5°	733.4	735.5	700.7	684.9	717.6	792.5	887.5	913.9	967.7	993.0	995.1
30°	927.6	929.7	861.1	786.2	763.0	817.8	919.1	956.1	1025.7	1054.2	1041.5
32.5°	1177.7	1175.6	1081.6	970.8	870.6	862.2	964.5	1003.6	1079.5	1107.0	1097.5
35°	1428.8	1432.0	1351.8	1185.1	1041.5	945.5	1022.6	1067.9	1159.7	1198.8	1181.9
37.5°	1600.8	1621.9	1587.1	1406.7	1251.5	1099.6	1116.5	1165.0	1280.0	1332.8	1296.9
40°	1843.6	1838.3	1753.9	1620.9	1483.7	1327.5	1268.4	1291.6	1423.6	1494.3	1438.3
42.5°	2169.6	2159.1	2015.6	1885.8	1732.7	1605.1	1484.8	1480.5	1588.2	1670.5	1589.2
45°	2465.1	2449.3	2351.1	2225.6	2057.8	1911.1	1748.6	1711.6	1786.6	1856.2	1761.2
47.5°	2700.4	2674.0	2604.4	2537.9	2496.8	2268.8	2025.1	1969.1	2007.1	2058.8	1924.8
50°	2979.0	2906.2	2804.9	2764.8	2850.3	2674.0	2291.0	2237.2	2235.1	2264.6	2093.6
52.5°	3105.7	2973.7	2916.8	2950.5	3101.4	3050.8	2578.0	2501.0	2470.4	2473.5	2250.9
55°	2952.6	2937.9	2968.5	3074.0	3271.3	3241.8	2853.4	2758.5	2713.1	2656.1	2401.8
57.5°	2778.5	2823.9	2945.2	3146.8	3486.6	3441.2	3124.6	3017.0	2933.6	2802.8	2569.6
60°	2618.1	2664.5	2865.0	3163.7	3604.8	3633.3	3350.5	3248.1	3124.6	2952.6	2754.2
62.5°	2374.4	2410.2	2692.0	3139.4	3553.1	3745.1	3507.7	3430.7	3315.6	3095.1	2966.4
65°	2100.0	2123.2	2401.8	2945.2	3451.8	3732.5	3637.5	3594.2	3482.4	3243.9	3176.4
67.5°	1799.2	1826.7	2058.8	2596.0	3253.4	3673.4	3759.9	3755.7	3628.0	3408.5	3328.3
70°	1453.1	1455.2	1647.3	2152.7	2907.3	3555.2	3911.9	3921.4	3767.3	3532.0	3334.6
72.5°	695.4	752.4	1067.9	1502.7	2362.7	3323.0	4011.1	4058.6	3854.9	3527.8	2974.8
75°	159.3	164.6	311.3	714.4	1385.6	2550.6	3763.1	3851.7	3641.7	3050.8	2095.8
77.5°	58.0	61.2	87.6	208.9	532.9	1318.0	2693.0	2822.8	2692.0	1972.3	990.9
80°	39.0	38.0	45.4	92.9	244.8	373.6	1377.1	1454.2	1327.5	673.3	237.4
82.5°	20.1	21.1	31.7	51.7	164.6	129.8	460.1	500.2	411.6	135.1	44.3
85°	9.5	9.5	17.9	32.7	69.6	45.4	102.4	123.5	110.8	59.1	14.8
87.5°	9.5	9.5	16.9	21.1	35.9	19.0	25.3	31.7	29.5	31.7	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P397909

CATALOG NUMBER: ARCH-S-PA1-60-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1	708.1
2.5°	702.8	701.8	700.7	702.8	701.8	703.9	703.9	706.0	706.0	703.9	702.8
5°	693.3	691.2	689.1	689.1	688.0	690.1	696.5	701.8	702.8	699.6	698.6
7.5°	694.4	694.4	692.3	688.0	680.6	680.6	680.6	687.0	690.1	688.0	687.0
10°	713.4	714.4	709.1	699.6	687.0	675.4	653.2	620.5	589.9	581.5	578.3
12.5°	746.1	747.1	736.6	719.7	693.3	624.7	540.3	462.2	402.1	385.2	382.0
15°	785.1	786.2	767.2	739.7	659.5	500.2	374.6	286.0	233.2	220.6	219.5
17.5°	825.2	823.1	794.6	741.9	559.3	354.6	227.9	182.6	168.8	165.7	166.7
20°	864.3	857.9	818.9	702.8	430.5	232.2	166.7	156.2	153.0	150.9	150.9
22.5°	900.1	887.5	838.9	625.8	301.8	166.7	148.8	146.7	142.5	139.3	138.2
25°	936.0	918.1	851.6	525.5	202.6	145.6	140.4	136.1	130.9	126.6	125.6
27.5°	979.3	954.0	845.3	398.9	152.0	135.1	130.9	124.5	117.1	110.8	108.7
30°	1020.4	992.0	809.4	275.4	129.8	124.5	118.2	108.7	99.2	91.8	89.7
32.5°	1072.2	1039.4	745.0	180.5	112.9	108.7	102.4	90.8	78.1	69.6	67.5
35°	1146.0	1109.1	662.7	126.6	99.2	91.8	83.4	70.7	57.0	50.7	49.6
37.5°	1249.4	1199.8	559.3	102.4	87.6	77.0	64.4	51.7	42.2	36.9	35.9
40°	1376.1	1300.1	444.3	90.8	78.1	64.4	48.5	36.9	30.6	26.4	26.4
42.5°	1513.3	1394.0	327.1	83.4	68.6	52.8	35.9	26.4	22.2	20.1	19.0
45°	1654.7	1477.4	220.6	77.0	60.2	40.1	25.3	17.9	14.8	14.8	13.7
47.5°	1801.3	1533.3	142.5	69.6	50.7	29.5	16.9	12.7	10.6	10.6	10.6
50°	1947.0	1562.9	101.3	63.3	41.2	20.1	12.7	9.5	8.4	8.4	8.4
52.5°	2052.5	1543.9	81.3	54.9	31.7	14.8	9.5	7.4	6.3	6.3	6.3
55°	2144.3	1511.1	70.7	47.5	23.2	10.6	7.4	6.3	5.3	5.3	5.3
57.5°	2238.2	1468.9	63.3	40.1	16.9	7.4	5.3	4.2	4.2	4.2	4.2
60°	2323.7	1397.2	54.9	31.7	11.6	5.3	4.2	3.2	3.2	3.2	3.2
62.5°	2407.1	1336.0	47.5	24.3	8.4	4.2	2.1	2.1	1.1	1.1	1.1
65°	2454.6	1253.7	38.0	15.8	5.3	3.2	1.1	1.1	0.0	0.0	0.0
67.5°	2439.8	1155.5	26.4	9.5	3.2	2.1	1.1	0.0	0.0	0.0	0.0
70°	2337.4	1023.6	15.8	5.3	3.2	2.1	1.1	0.0	0.0	0.0	0.0
72.5°	1957.5	757.7	9.5	4.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0
75°	1307.5	348.2	5.3	3.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0
77.5°	598.3	104.5	3.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	120.3	27.4	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	25.3	5.3	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°	2.1	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)