

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: P397907

Luminaire Tested: **ARCH-S-PA1-60-730-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
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-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5613 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

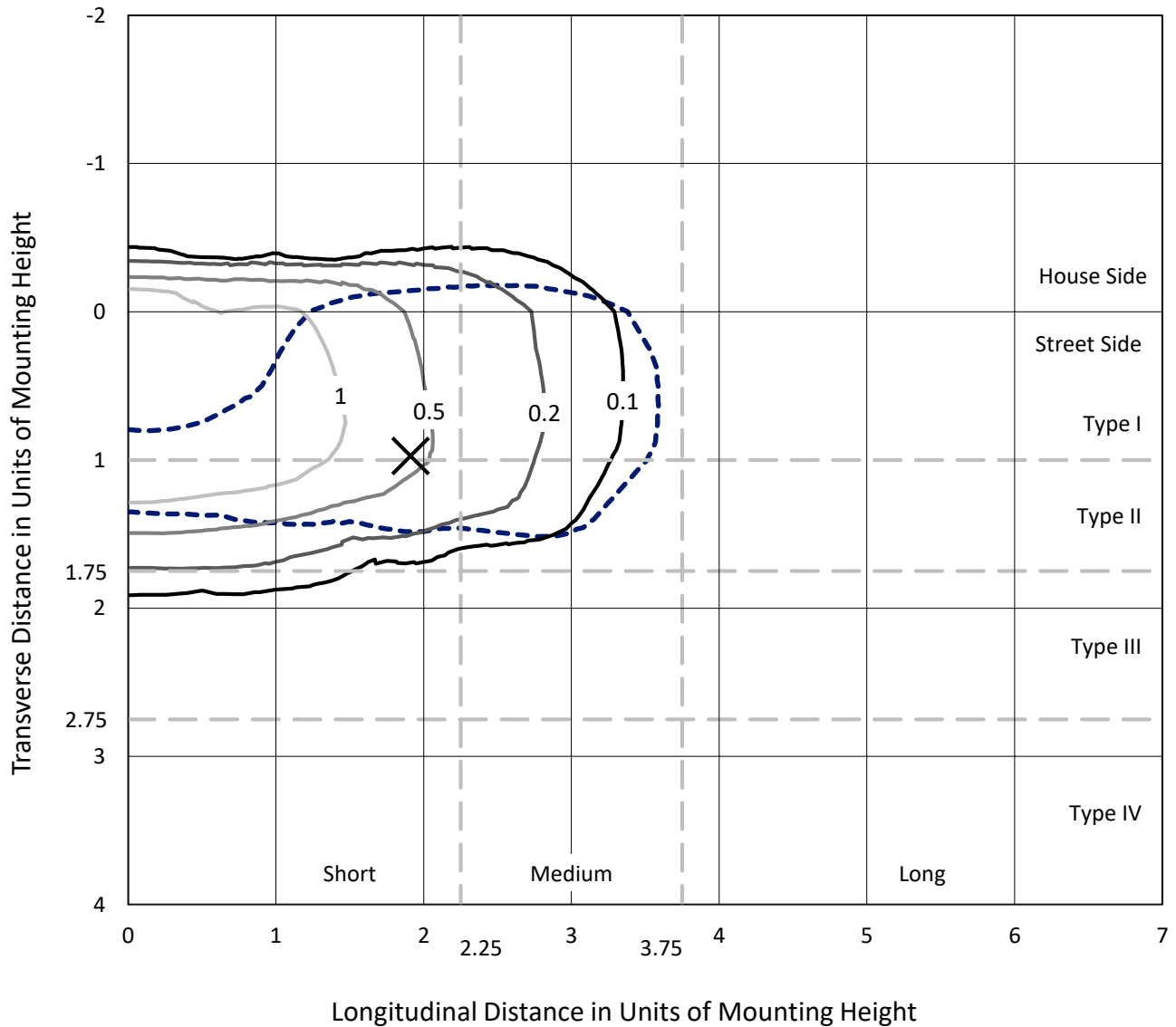
Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: ARCH-S-PA1-60-730-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

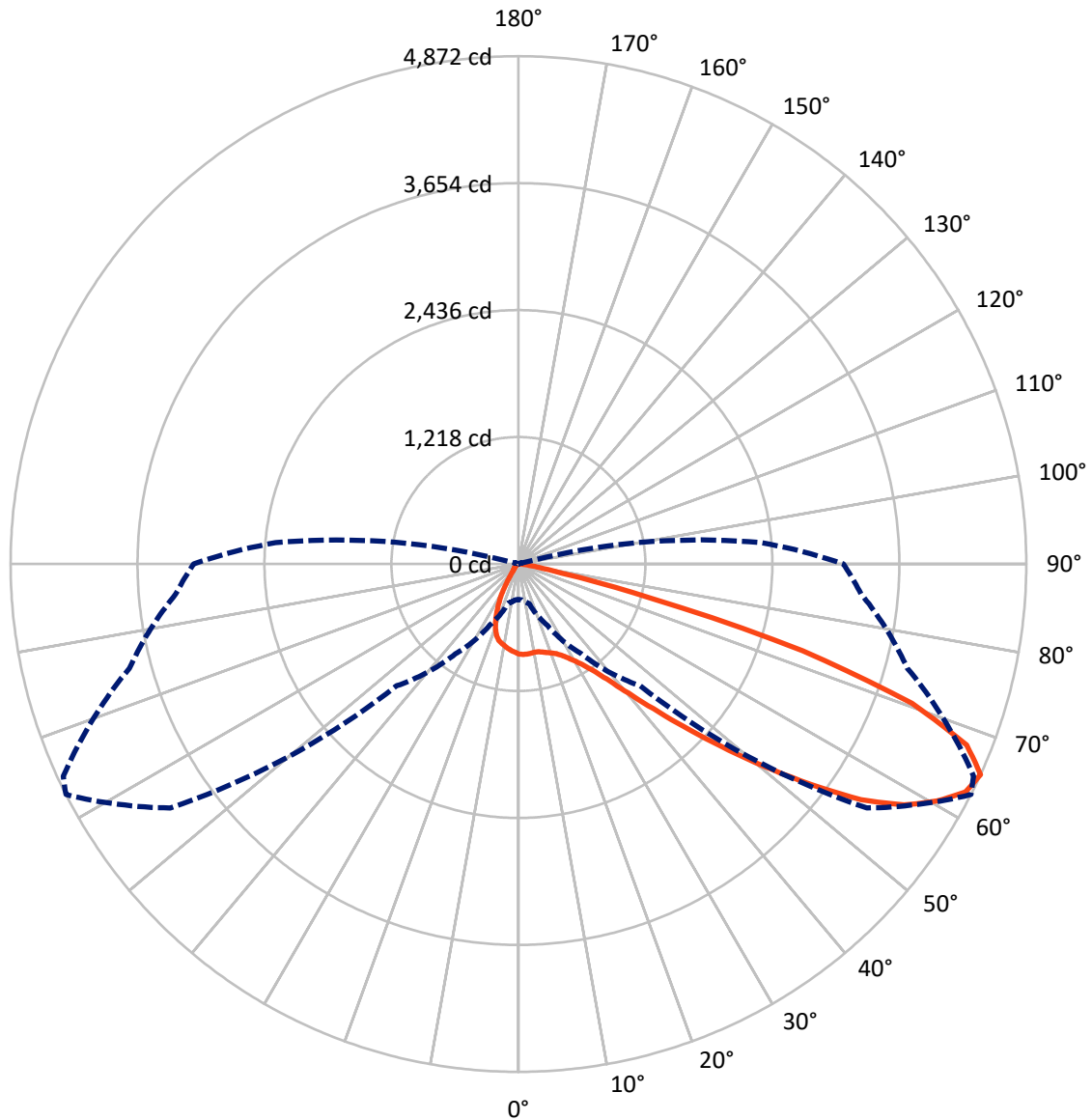
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P397907
CATALOG NUMBER: ARCH-S-PA1-60-730-U-T2U-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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CATALOG NUMBER: ARCH-S-PA1-60-730-U-T2U-HSS

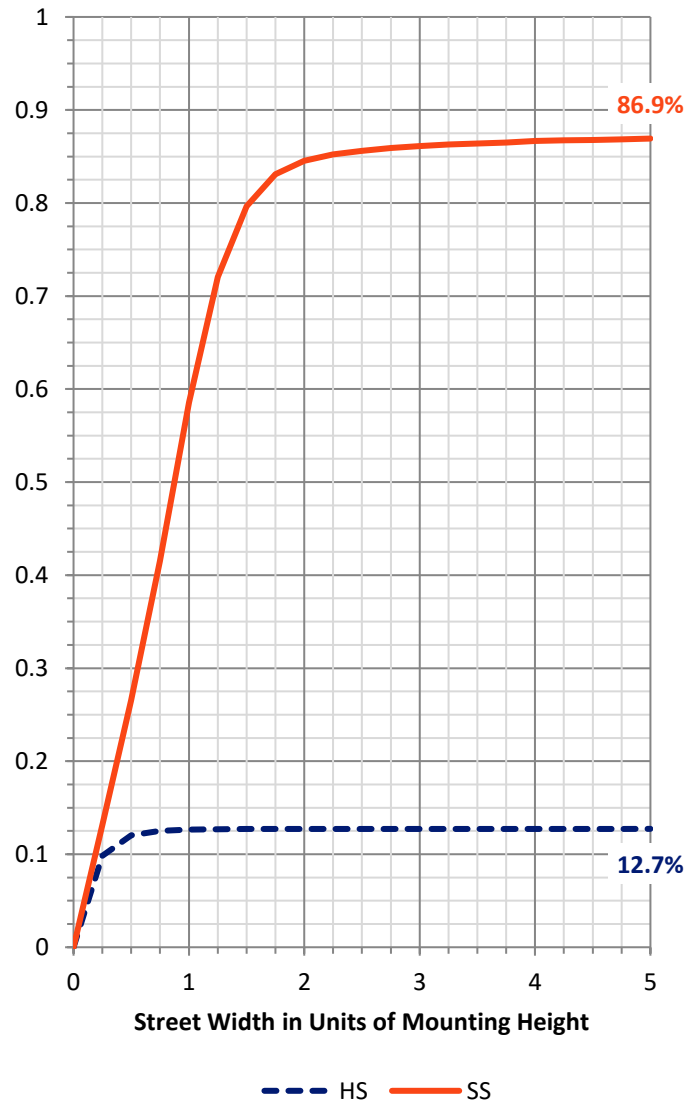
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	722.4	0.0	722.4
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	4890.6	0.0	4890.6
	% Fixture	87.1	0.0	87.1
Total	Lumens	5613.0	0.0	5613.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	1.4
10°-20°	194.6	3.5
20°-30°	288.5	5.1
30°-40°	535.7	9.5
40°-50°	1134.8	20.2
50°-60°	1569.1	28.0
60°-70°	1256.1	22.4
70°-80°	521.9	9.3
80°-90°	33.5	0.6
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°	5613.0	100.0
0°-180°	5613.0	100.0

Coefficient of Utilization



REPORT NUMBER: P397907

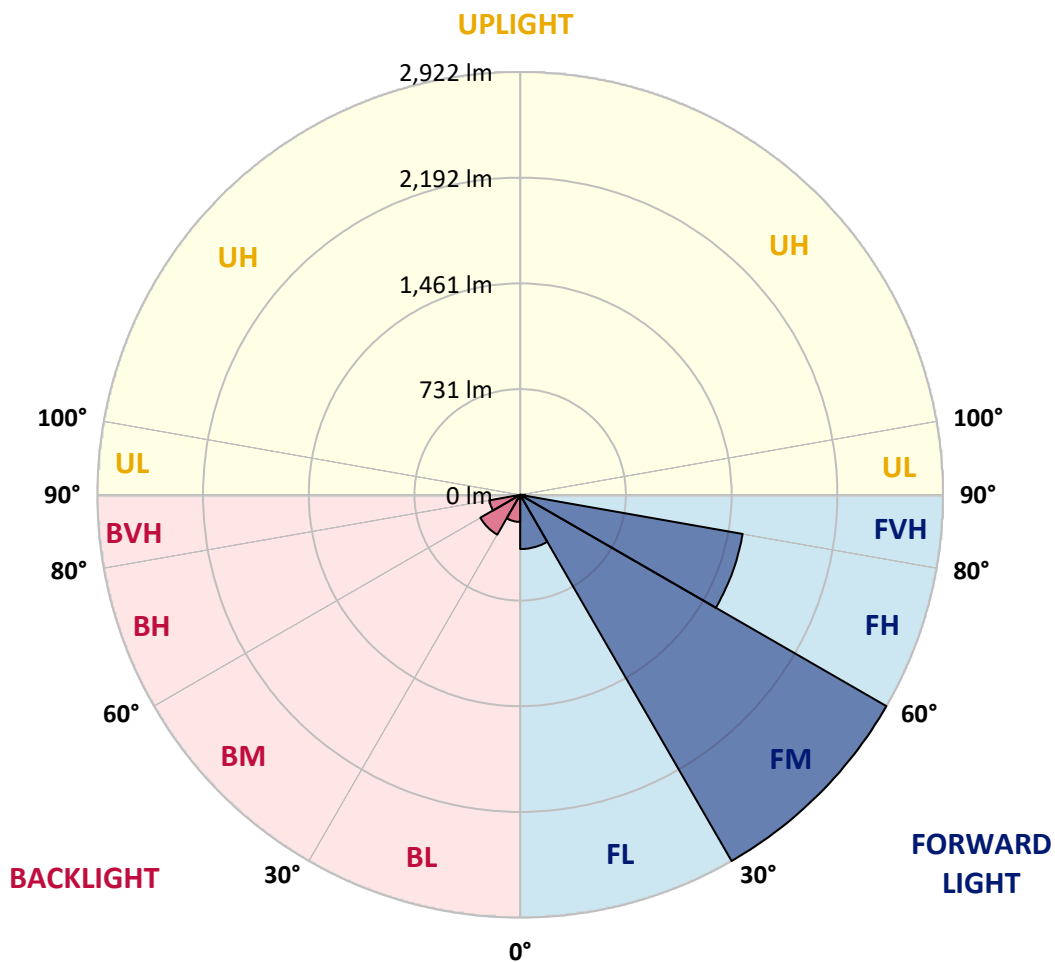
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	374.8	6.7			
FM	(30°-60°)	2922.2	52.1			
FH	(60°-80°)	1561.7	27.8			G1/1800
FVH	(80°-90°)	32.0	0.6			G1/100
BL	(0°-30°)	187.2	3.3	B1/500		
BM	(30°-60°)	317.3	5.7	B1/1000		
BH	(60°-80°)	216.3	3.9	B1/500		G1/500
BVH	(80°-90°)	1.5	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-G1

Type II Short





REPORT NUMBER: P397907

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	864.7	864.7	864.7	864.7	864.7	864.7	864.7	864.7	864.7	864.7	864.7
2.5°	879.5	877.4	875.3	874.2	874.2	873.2	868.9	867.9	865.7	863.6	861.5
5°	871.0	867.9	866.8	867.9	868.9	871.0	868.9	868.9	866.8	864.7	860.4
7.5°	849.9	847.7	848.8	852.0	853.0	860.4	861.5	864.7	864.7	862.6	859.4
10°	824.4	823.4	823.4	828.7	834.0	844.6	852.0	860.4	861.5	861.5	856.2
12.5°	805.3	804.3	807.5	813.8	824.4	838.2	850.9	863.6	865.7	866.8	858.3
15°	793.7	793.7	797.9	810.6	825.5	844.6	859.4	876.3	878.5	877.4	865.7
17.5°	783.1	784.2	792.6	813.8	830.8	856.2	874.2	893.3	894.4	893.3	874.2
20°	778.9	781.0	793.7	821.2	840.3	868.9	892.2	911.3	912.4	908.1	882.7
22.5°	790.5	791.6	807.5	837.1	855.1	886.9	916.6	934.6	935.7	929.3	895.4
25°	830.8	830.8	844.6	870.0	885.9	917.7	949.5	970.7	970.7	963.2	924.0
27.5°	925.1	916.6	913.4	920.8	926.1	960.1	994.0	1020.5	1019.4	1008.8	961.1
30°	1107.3	1086.2	1052.2	1014.1	995.0	1018.3	1050.1	1084.0	1083.0	1066.0	1006.7
32.5°	1413.6	1382.9	1302.3	1201.7	1120.1	1093.6	1123.2	1160.3	1161.4	1141.3	1079.8
35°	1842.8	1794.0	1649.9	1510.0	1323.5	1222.9	1231.3	1271.6	1284.3	1273.7	1202.7
37.5°	2256.0	2211.5	2073.8	1879.8	1626.6	1421.0	1385.0	1419.9	1434.8	1434.8	1359.5
40°	2672.5	2620.5	2498.7	2303.7	2036.7	1730.4	1601.2	1629.8	1645.7	1648.8	1550.3
42.5°	3006.3	2972.4	2879.1	2727.6	2477.5	2273.0	1912.7	1896.8	1911.6	1900.0	1771.8
45°	3237.3	3210.8	3146.1	3088.9	2967.1	2864.3	2329.1	2222.1	2231.7	2191.4	2020.8
47.5°	3285.0	3255.3	3241.5	3321.0	3407.9	3433.3	2841.0	2608.9	2599.4	2510.3	2279.3
50°	3077.3	3080.4	3131.3	3358.1	3720.5	3949.4	3434.4	3045.5	3010.5	2812.3	2519.9
52.5°	2629.0	2679.9	2808.1	3175.8	3815.8	4324.5	4027.8	3508.5	3454.5	3105.9	2700.0
55°	2056.8	2122.5	2333.4	2756.2	3616.6	4491.9	4527.9	3989.6	3866.7	3326.3	2839.9
57.5°	1529.1	1549.2	1795.1	2180.8	3145.1	4327.7	4784.4	4360.5	4202.6	3502.2	2978.7
60°	952.6	965.4	1225.0	1660.5	2382.1	3720.5	4784.4	4615.9	4465.4	3660.1	3105.9
62.5°	592.4	596.6	694.1	1138.1	1619.2	2759.4	4586.2	4814.1	4693.3	3773.5	3215.0
65°	341.2	345.5	391.0	643.2	1053.3	1652.0	4079.7	4872.3	4818.3	3863.5	3299.8
67.5°	249.0	251.1	269.2	361.3	688.8	848.8	3064.5	4638.1	4706.0	3908.0	3297.7
70°	216.2	219.4	242.7	281.9	497.0	521.4	1559.8	4005.5	4195.2	3844.5	3199.1
72.5°	166.4	170.6	205.6	264.9	364.5	375.1	564.8	2850.5	3137.7	3447.1	2928.9
75°	114.4	118.7	153.7	218.3	300.9	280.8	310.5	1311.9	1655.2	2312.2	2229.5
77.5°	73.1	74.2	96.4	158.9	259.6	199.2	213.0	428.1	600.8	1045.9	1052.2
80°	48.7	49.8	59.3	102.8	178.0	184.4	131.4	198.2	217.2	305.2	211.9
82.5°	29.7	29.7	40.3	64.6	108.1	152.6	85.8	103.8	111.3	117.6	55.1
85°	11.7	11.7	24.4	42.4	67.8	71.0	54.0	60.4	63.6	68.9	25.4
87.5°	3.2	3.2	13.8	23.3	29.7	32.8	32.8	29.7	31.8	39.2	12.7
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: P397907

CATALOG NUMBER: ARCH-S-PA1-60-730-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	864.7	864.7	864.7	864.7	864.7	864.7	864.7	864.7	864.7	864.7	864.7
2.5°	860.4	857.3	853.0	848.8	844.6	841.4	838.2	838.2	836.1	832.9	830.8
5°	858.3	853.0	843.5	836.1	824.4	815.9	809.6	804.3	801.1	793.7	792.6
7.5°	855.1	848.8	835.0	820.2	801.1	786.3	771.4	760.8	750.2	741.8	739.6
10°	849.9	842.4	822.3	801.1	774.6	747.1	712.1	671.8	634.7	613.5	607.2
12.5°	849.9	840.3	813.8	785.2	747.1	679.2	590.2	501.2	432.3	401.6	393.1
15°	855.1	842.4	807.5	768.3	697.3	559.5	415.4	297.8	222.5	199.2	193.9
17.5°	860.4	842.4	797.9	744.9	606.1	405.9	236.3	156.8	132.5	127.2	127.2
20°	862.6	840.3	785.2	701.5	484.3	252.2	140.9	117.6	108.1	104.9	104.9
22.5°	871.0	841.4	775.7	639.0	351.8	148.4	111.3	98.5	89.0	85.8	85.8
25°	892.2	854.1	777.8	559.5	225.7	112.3	94.3	81.6	72.1	67.8	67.8
27.5°	926.1	882.7	789.4	467.3	142.0	96.4	79.5	65.7	58.3	54.0	54.0
30°	964.3	914.5	794.7	361.3	106.0	81.6	64.6	51.9	46.6	43.4	42.4
32.5°	1031.1	969.6	790.5	248.0	86.9	68.9	51.9	41.3	37.1	36.0	36.0
35°	1138.1	1066.0	782.0	155.8	72.1	55.1	41.3	33.9	30.7	29.7	28.6
37.5°	1283.3	1207.0	756.6	102.8	59.3	43.4	33.9	28.6	25.4	24.4	24.4
40°	1460.2	1368.0	707.9	78.4	50.9	35.0	28.6	24.4	22.3	21.2	21.2
42.5°	1662.6	1547.1	630.5	67.8	42.4	29.7	24.4	20.1	19.1	18.0	18.0
45°	1884.1	1734.7	523.5	60.4	36.0	24.4	20.1	18.0	15.9	15.9	14.8
47.5°	2119.3	1923.3	402.7	53.0	30.7	21.2	18.0	14.8	13.8	12.7	12.7
50°	2346.1	2091.8	282.9	45.6	25.4	18.0	14.8	12.7	11.7	10.6	10.6
52.5°	2506.1	2193.5	200.3	39.2	21.2	15.9	11.7	9.5	8.5	8.5	8.5
55°	2634.3	2257.1	139.9	32.8	18.0	13.8	9.5	7.4	7.4	6.4	6.4
57.5°	2755.1	2298.4	102.8	27.6	14.8	10.6	7.4	5.3	5.3	4.2	4.2
60°	2880.2	2320.7	78.4	22.3	12.7	8.5	5.3	4.2	3.2	3.2	3.2
62.5°	3006.3	2334.4	60.4	18.0	10.6	6.4	4.2	3.2	2.1	1.1	1.1
65°	3116.5	2338.7	46.6	13.8	8.5	4.2	3.2	1.1	0.0	0.0	0.0
67.5°	3149.3	2289.9	36.0	10.6	6.4	3.2	2.1	0.0	0.0	0.0	0.0
70°	3060.3	2160.7	27.6	8.5	5.3	2.1	1.1	0.0	0.0	0.0	0.0
72.5°	2715.9	1812.0	21.2	5.3	4.2	2.1	1.1	0.0	0.0	0.0	0.0
75°	1943.4	966.4	14.8	4.2	3.2	1.1	0.0	0.0	0.0	0.0	0.0
77.5°	894.4	374.1	10.6	3.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0
80°	174.8	93.3	4.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	40.3	15.9	2.1	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.8	5.3	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	2.1	1.1	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)