

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: P398017

Luminaire Tested: **ARCH-S-PA1-70-827-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P398017
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-PA1-70-827-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 930mA 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: 5311 lumens
Efficiency: N/A
Efficacy: 71.8 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

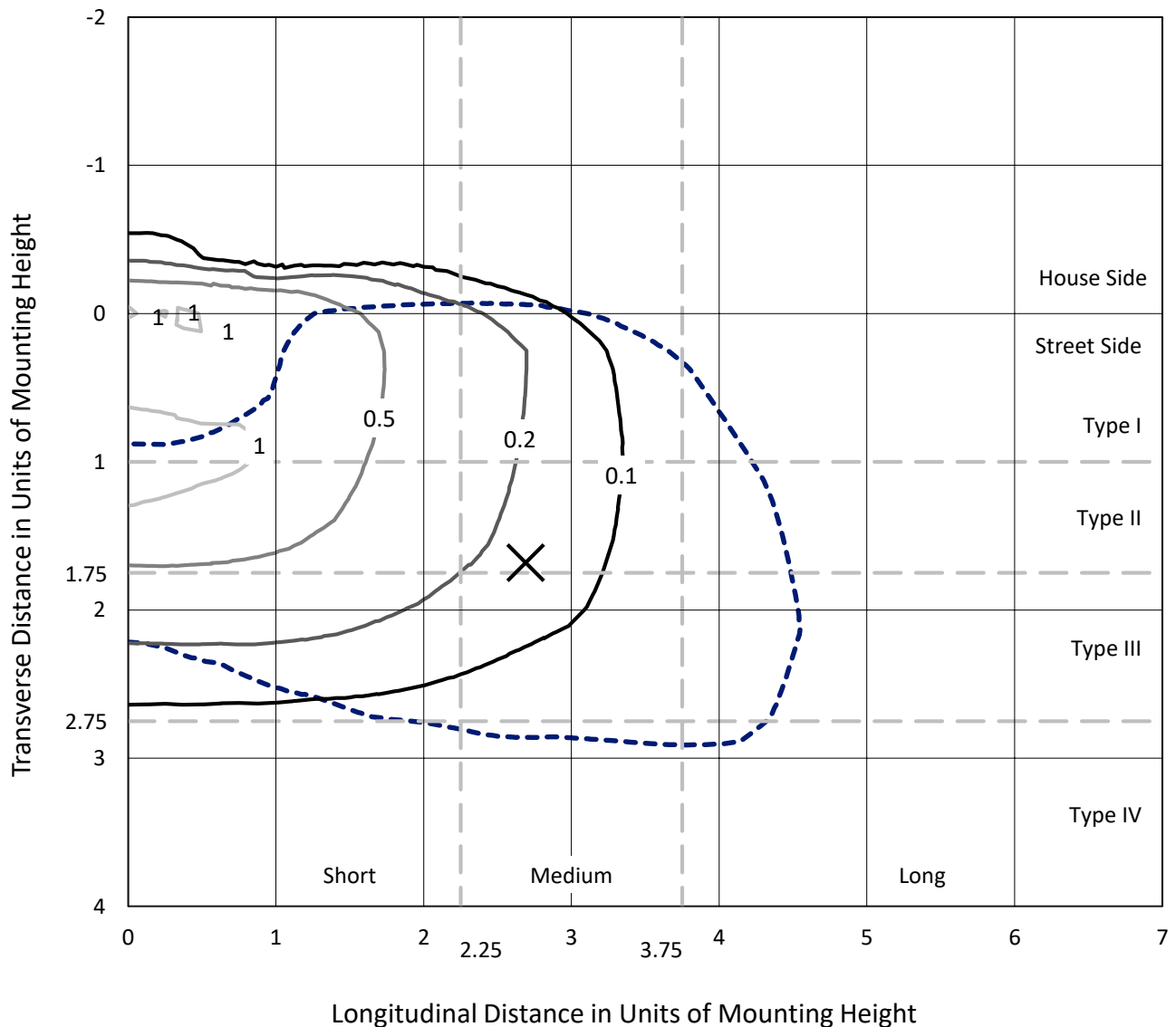
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

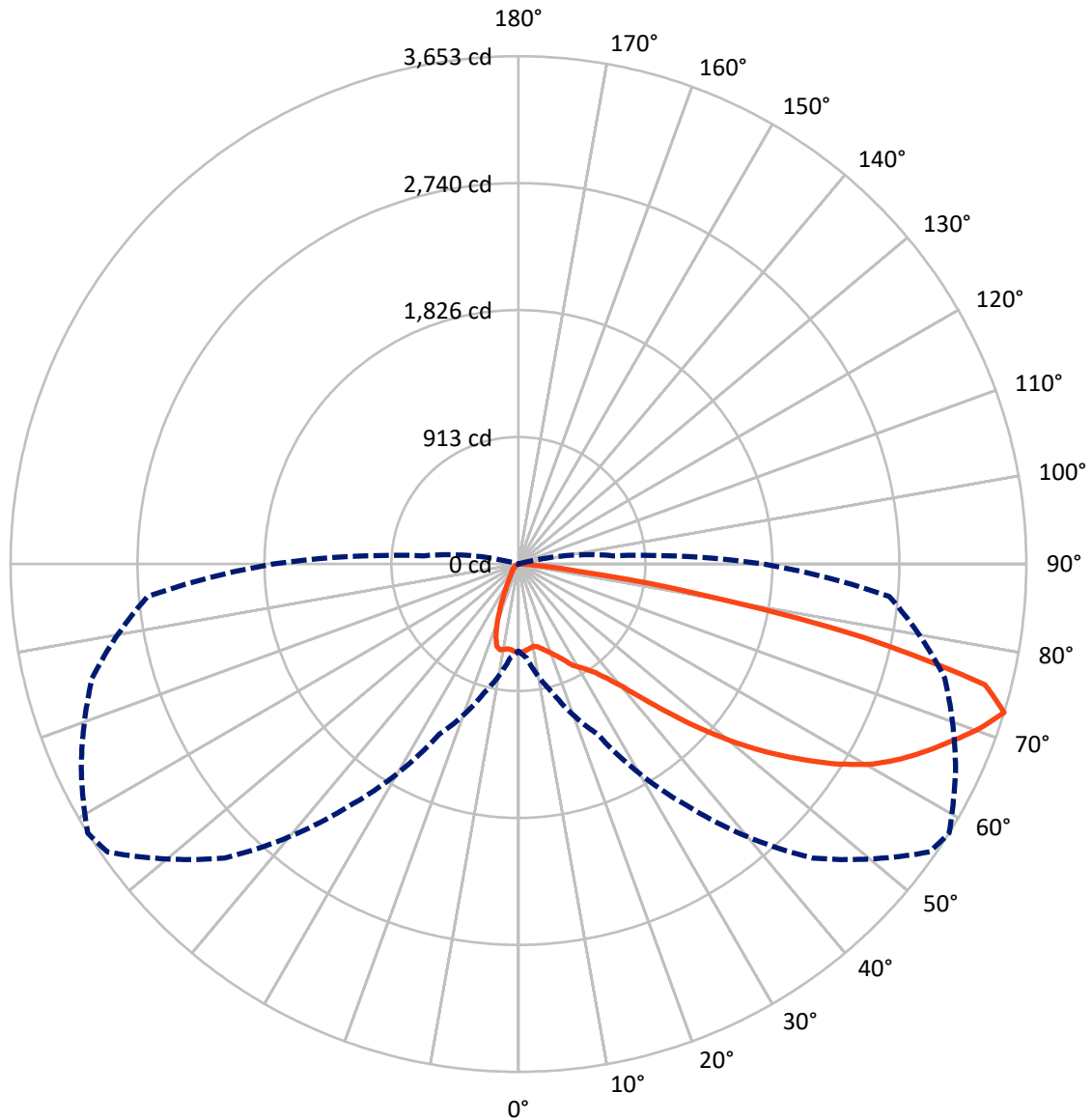


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Medium - Non-Cutoff

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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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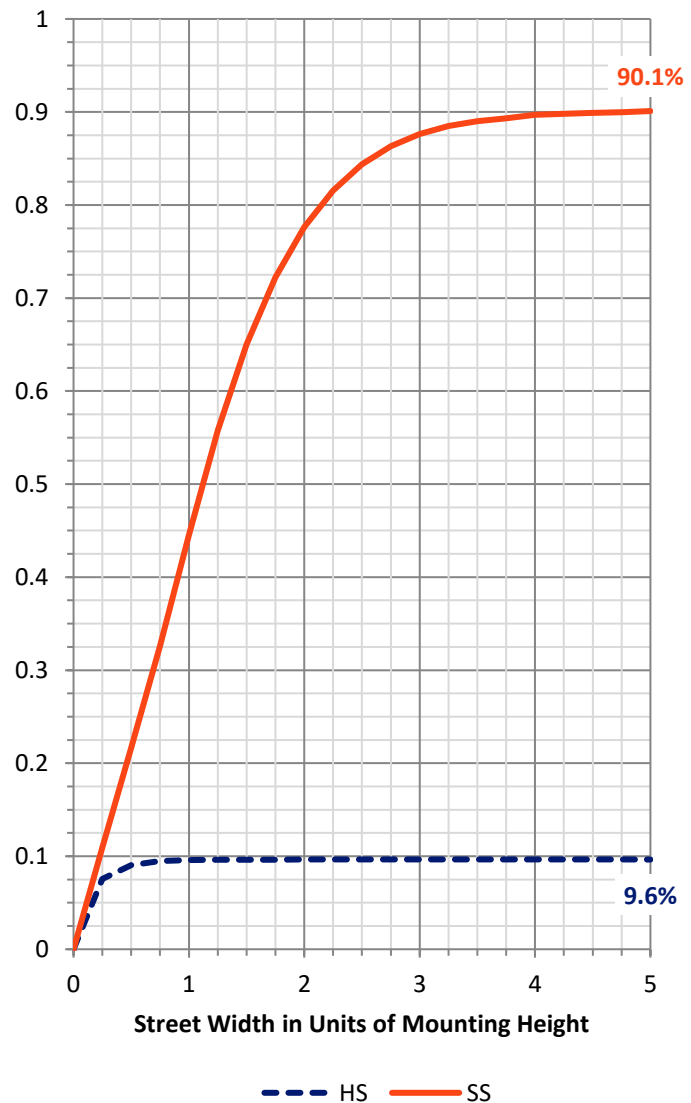
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	516.4	0.0	516.4
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	4794.5	0.0	4794.5
	% Fixture	90.3	0.0	90.3
Total	Lumens	5311.0	0.0	5311.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	1.1
10°-20°	152.3	2.9
20°-30°	239.3	4.5
30°-40°	412.7	7.8
40°-50°	785.2	14.8
50°-60°	1243.5	23.4
60°-70°	1451.0	27.3
70°-80°	908.8	17.1
80°-90°	59.6	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°	5311.0	100.0
0°-180°	5311.0	100.0



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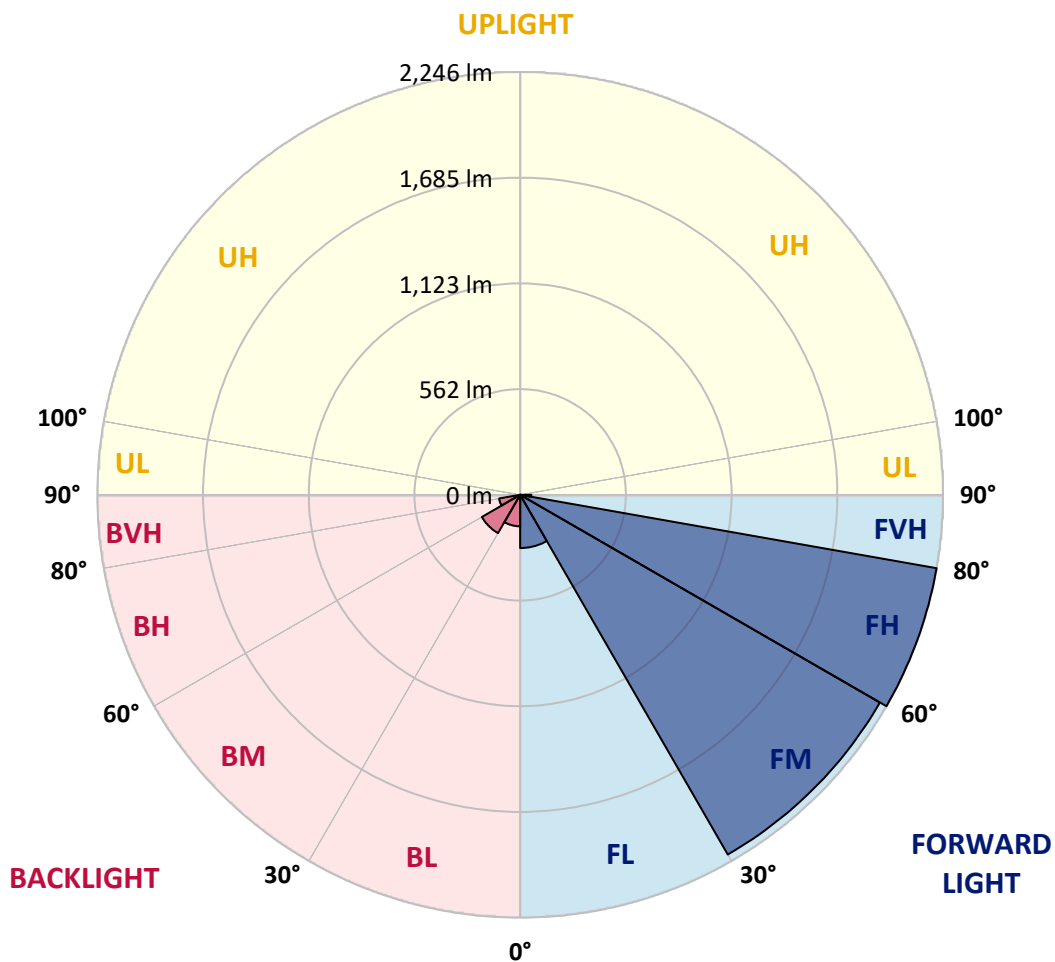
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	282.9	5.3			
FM (30°-60°)	2206.4	41.5			
FH (60°-80°)	2246.2	42.3			G2/5000
FVH (80°-90°)	59.1	1.1			G1/100
BL (0°-30°)	167.2	3.1	B1/500		
BM (30°-60°)	235.0	4.4	B1/1000		
BH (60°-80°)	113.6	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°	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.3
2.5°	634.4	631.6	630.6	629.7	630.6	631.6	628.7	631.6	629.7	630.6	632.5
5°	611.6	608.8	607.8	608.8	611.6	616.4	618.3	621.1	621.1	624.0	624.9
7.5°	586.0	584.1	583.2	585.1	590.7	601.2	606.9	610.7	614.5	620.2	625.9
10°	571.8	570.8	569.9	572.7	578.4	587.9	595.5	601.2	615.4	631.6	642.0
12.5°	562.3	562.3	564.2	569.9	577.5	585.1	603.1	610.7	632.5	657.2	671.5
15°	554.7	554.7	557.5	568.0	578.4	596.4	623.0	631.6	657.2	687.6	706.6
17.5°	549.0	550.9	552.8	563.2	583.2	613.5	644.9	657.2	688.6	721.8	742.7
20°	549.9	551.8	552.8	563.2	591.7	633.5	673.4	687.6	723.7	758.9	779.8
22.5°	555.6	558.5	559.4	573.7	606.9	654.4	705.7	721.8	760.8	797.8	813.9
25°	579.4	581.3	575.6	587.9	628.7	686.7	747.5	764.6	803.5	837.7	851.0
27.5°	660.1	662.0	630.6	616.4	645.8	713.3	798.7	822.5	870.9	893.7	895.6
30°	834.8	836.7	775.0	707.6	686.7	736.1	827.2	860.5	923.2	948.8	937.4
32.5°	1059.9	1058.0	973.5	873.8	783.6	776.0	868.1	903.2	971.6	996.3	987.7
35°	1286.0	1288.8	1216.6	1066.6	937.4	851.0	920.3	961.2	1043.8	1078.9	1063.7
37.5°	1440.8	1459.8	1428.4	1266.0	1126.4	989.6	1004.8	1048.5	1152.1	1199.5	1167.3
40°	1659.2	1654.5	1578.5	1458.8	1335.4	1194.8	1141.6	1162.5	1281.2	1344.9	1294.5
42.5°	1952.7	1943.2	1814.0	1697.2	1559.5	1444.6	1336.3	1332.5	1429.4	1503.5	1430.3
45°	2218.6	2204.4	2116.1	2003.0	1852.0	1720.0	1573.7	1540.5	1607.9	1670.6	1585.1
47.5°	2430.4	2406.7	2344.0	2284.2	2247.1	2042.0	1822.6	1772.2	1806.4	1853.0	1732.4
50°	2681.2	2615.6	2524.5	2488.4	2565.3	2406.7	2061.9	2013.5	2011.6	2038.2	1884.3
52.5°	2795.1	2676.4	2625.1	2655.5	2791.3	2745.8	2320.3	2250.9	2223.4	2226.2	2025.8
55°	2657.4	2644.1	2671.7	2766.6	2944.2	2917.7	2568.1	2482.7	2441.8	2390.5	2161.6
57.5°	2500.7	2541.6	2650.8	2832.2	3138.0	3097.2	2812.2	2715.4	2640.3	2522.6	2312.7
60°	2356.3	2398.1	2578.6	2847.4	3244.4	3270.0	3015.5	2923.4	2812.2	2657.4	2478.9
62.5°	2137.0	2169.2	2422.8	2825.5	3197.8	3370.7	3157.0	3087.7	2984.1	2785.6	2669.8
65°	1890.0	1910.9	2161.6	2650.8	3106.7	3359.3	3273.8	3234.9	3134.2	2919.6	2858.8
67.5°	1619.3	1644.0	1853.0	2336.4	2928.1	3306.1	3384.0	3380.2	3265.3	3067.7	2995.5
70°	1307.8	1309.7	1482.6	1937.5	2616.6	3199.7	3520.8	3529.3	3390.6	3178.8	3001.2
72.5°	625.9	677.2	961.2	1352.5	2126.5	2990.8	3610.0	3652.8	3469.5	3175.0	2677.4
75°	143.4	148.2	280.2	643.0	1247.0	2295.6	3386.8	3466.6	3277.6	2745.8	1886.2
77.5°	52.2	55.1	78.8	188.1	479.6	1186.2	2423.8	2540.6	2422.8	1775.1	891.8
80°	35.1	34.2	40.8	83.6	220.3	336.2	1239.4	1308.8	1194.8	605.9	213.7
82.5°	18.0	19.0	28.5	46.5	148.2	116.8	414.1	450.2	370.4	121.6	39.9
85°	8.5	8.5	16.1	29.4	62.7	40.8	92.1	111.1	99.7	53.2	13.3
87.5°	8.5	8.5	15.2	19.0	32.3	17.1	22.8	28.5	26.6	28.5	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°	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.3
2.5°	632.5	631.6	630.6	632.5	631.6	633.5	633.5	635.4	635.4	633.5	632.5
5°	624.0	622.1	620.2	620.2	619.2	621.1	626.8	631.6	632.5	629.7	628.7
7.5°	624.9	624.9	623.0	619.2	612.6	612.6	612.6	618.3	621.1	619.2	618.3
10°	642.0	643.0	638.2	629.7	618.3	607.8	587.9	558.5	530.9	523.3	520.5
12.5°	671.5	672.4	662.9	647.7	624.0	562.3	486.3	416.0	361.9	346.7	343.8
15°	706.6	707.6	690.5	665.8	593.6	450.2	337.2	257.4	209.9	198.5	197.5
17.5°	742.7	740.8	715.2	667.7	503.4	319.1	205.1	164.3	152.0	149.1	150.1
20°	777.9	772.2	737.0	632.5	387.5	208.9	150.1	140.6	137.7	135.8	135.8
22.5°	810.1	798.7	755.1	563.2	271.6	150.1	133.9	132.0	128.2	125.4	124.4
25°	842.4	826.3	766.5	473.0	182.4	131.1	126.3	122.5	117.8	114.0	113.0
27.5°	881.4	858.6	760.8	359.0	136.8	121.6	117.8	112.1	105.4	99.7	97.8
30°	918.4	892.8	728.5	247.9	116.8	112.1	106.4	97.8	89.3	82.6	80.7
32.5°	965.0	935.5	670.5	162.4	101.6	97.8	92.1	81.7	70.3	62.7	60.8
35°	1031.4	998.2	596.4	114.0	89.3	82.6	75.0	63.6	51.3	45.6	44.6
37.5°	1124.5	1079.9	503.4	92.1	78.8	69.3	57.9	46.5	38.0	33.2	32.3
40°	1238.5	1170.1	399.8	81.7	70.3	57.9	43.7	33.2	27.5	23.7	23.7
42.5°	1362.0	1254.6	294.4	75.0	61.7	47.5	32.3	23.7	19.9	18.0	17.1
45°	1489.2	1329.7	198.5	69.3	54.1	36.1	22.8	16.1	13.3	13.3	12.3
47.5°	1621.2	1380.0	128.2	62.7	45.6	26.6	15.2	11.4	9.5	9.5	9.5
50°	1752.3	1406.6	91.2	57.0	37.0	18.0	11.4	8.5	7.6	7.6	7.6
52.5°	1847.3	1389.5	73.1	49.4	28.5	13.3	8.5	6.6	5.7	5.7	5.7
55°	1929.9	1360.1	63.6	42.7	20.9	9.5	6.6	5.7	4.7	4.7	4.7
57.5°	2014.4	1322.1	57.0	36.1	15.2	6.6	4.7	3.8	3.8	3.8	3.8
60°	2091.4	1257.5	49.4	28.5	10.4	4.7	3.8	2.8	2.8	2.8	2.8
62.5°	2166.4	1202.4	42.7	21.8	7.6	3.8	1.9	1.9	0.9	0.9	0.9
65°	2209.1	1128.3	34.2	14.2	4.7	2.8	0.9	0.9	0.0	0.0	0.0
67.5°	2195.8	1040.0	23.7	8.5	2.8	1.9	0.9	0.0	0.0	0.0	0.0
70°	2103.7	921.3	14.2	4.7	2.8	1.9	0.9	0.0	0.0	0.0	0.0
72.5°	1761.8	681.9	8.5	3.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0
75°	1176.8	313.4	4.7	2.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0
77.5°	538.5	94.0	2.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	108.3	24.7	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.8	4.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	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)