

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: P398026

Luminaire Tested: **ARCH-S-PA1-70-830-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P398026
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-PA1-70-830-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 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: 5741 lumens
Efficiency: N/A
Efficacy: 77.6 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

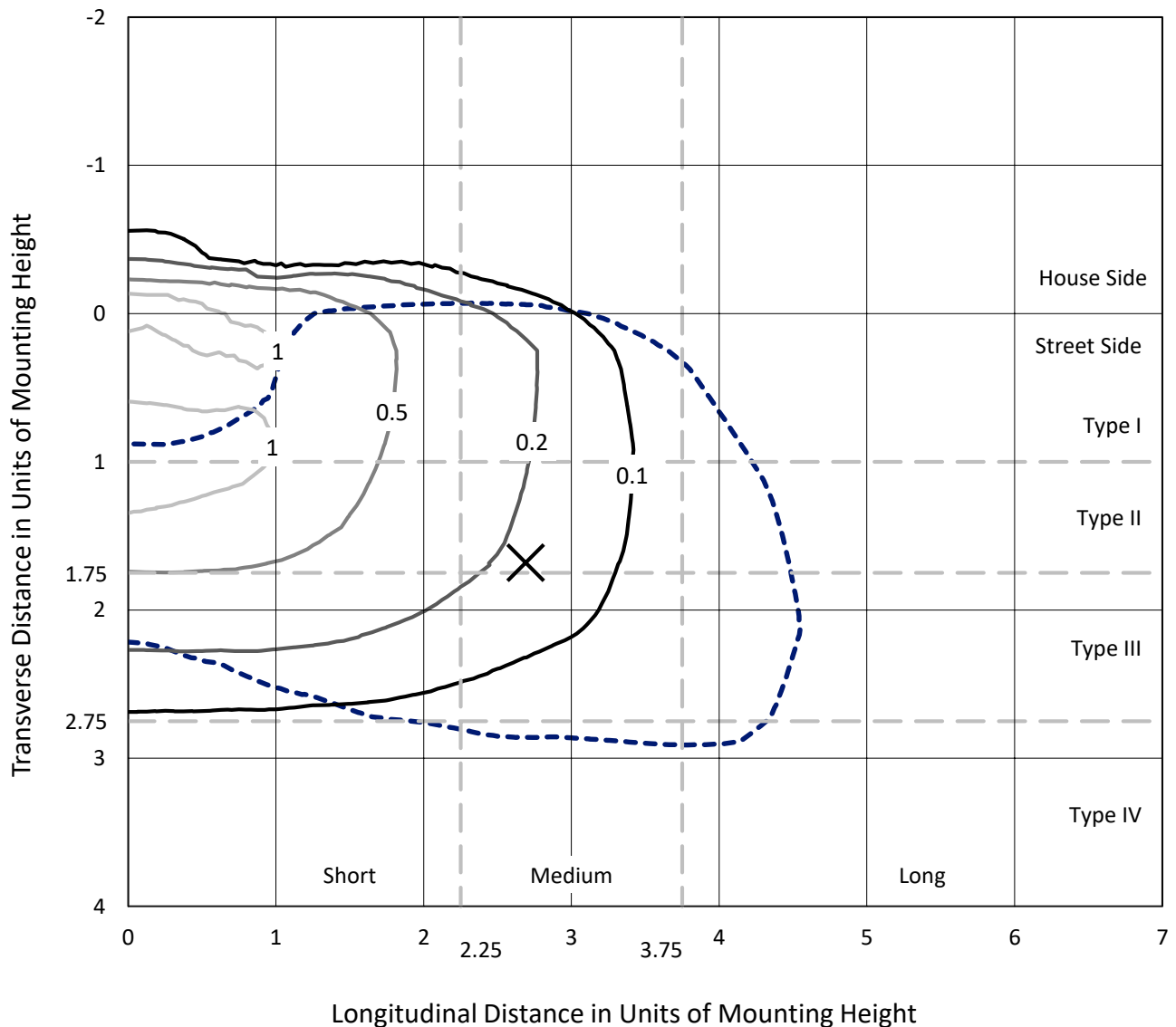
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

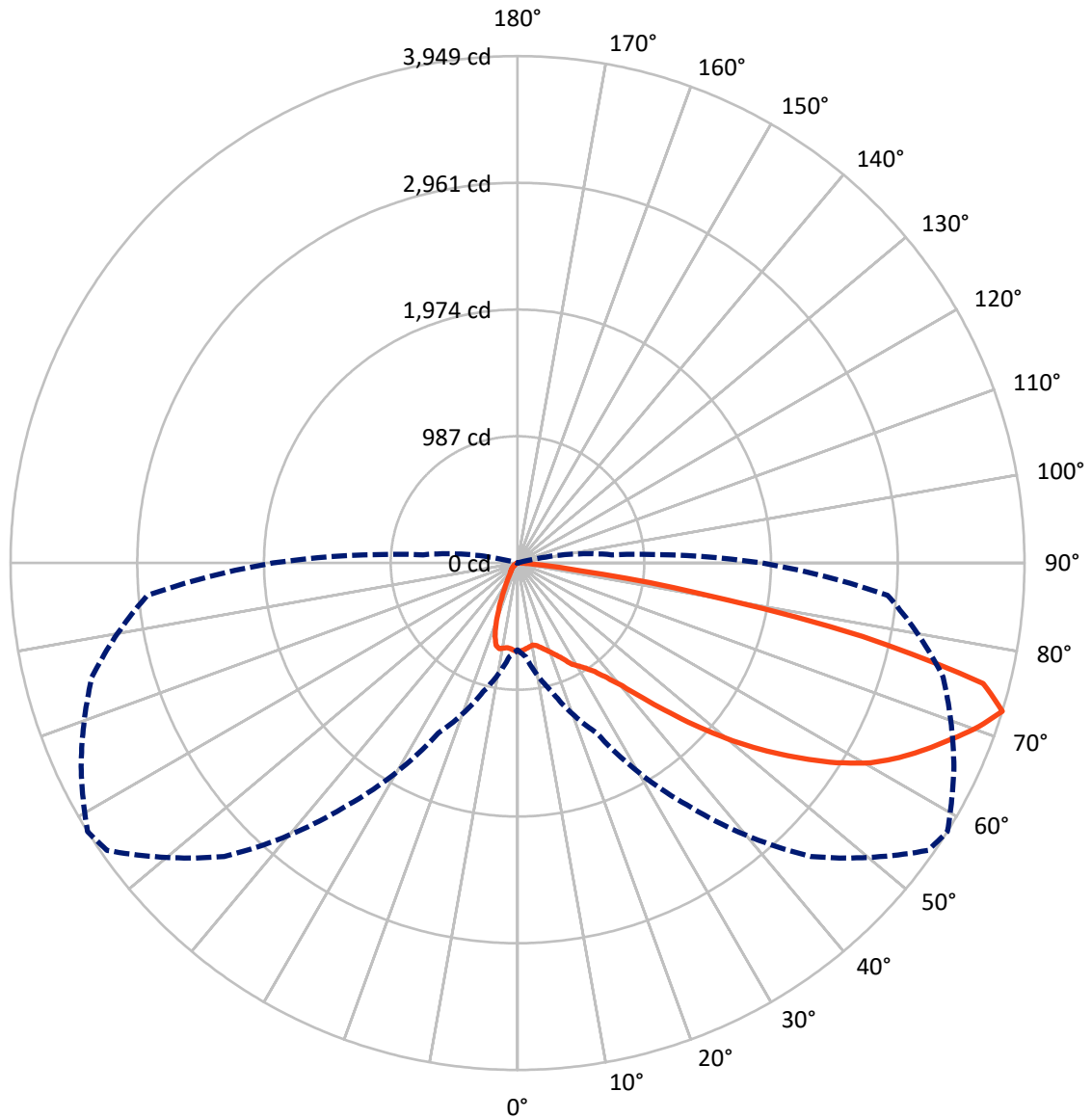


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Medium - Non-Cutoff

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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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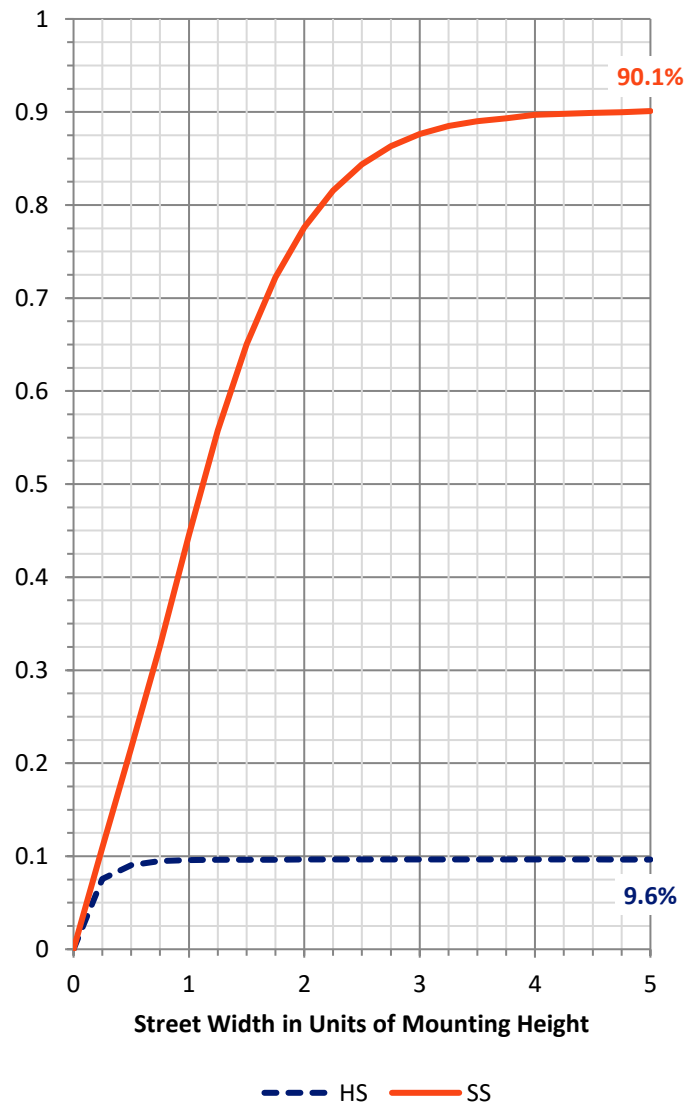
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	558.3	0.0	558.3
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	5182.7	0.0	5182.7
	% Fixture	90.3	0.0	90.3
Total	Lumens	5741.0	0.0	5741.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	1.1
10°-20°	164.7	2.9
20°-30°	258.7	4.5
30°-40°	446.1	7.8
40°-50°	848.8	14.8
50°-60°	1344.2	23.4
60°-70°	1568.5	27.3
70°-80°	982.4	17.1
80°-90°	64.5	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°	5741.0	100.0
0°-180°	5741.0	100.0

Coefficient of Utilization



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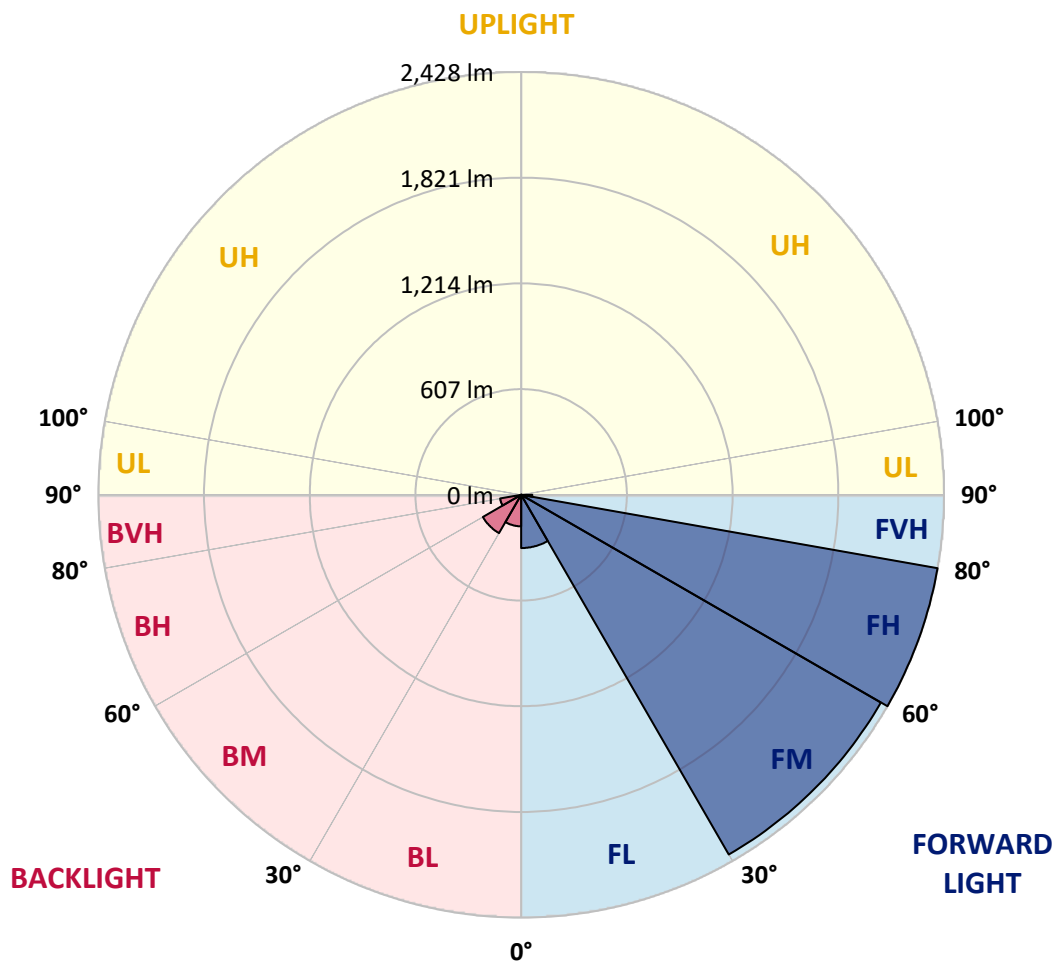
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	305.8	5.3			
FM	(30°-60°)	2385.1	41.5			
FH	(60°-80°)	2428.0	42.3			G2/5000
FVH	(80°-90°)	63.9	1.1			G1/100
BL	(0°-30°)	180.8	3.1	B1/500		
BM	(30°-60°)	254.0	4.4	B1/1000		
BH	(60°-80°)	122.8	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°	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9
2.5°	685.8	682.7	681.7	680.7	681.7	682.7	679.6	682.7	680.7	681.7	683.8
5°	661.2	658.1	657.1	658.1	661.2	666.3	668.4	671.4	671.4	674.5	675.5
7.5°	633.4	631.4	630.4	632.4	638.6	649.9	656.0	660.1	664.2	670.4	676.6
10°	618.0	617.0	616.0	619.1	625.2	635.5	643.7	649.9	665.3	682.7	694.0
12.5°	607.8	607.8	609.8	616.0	624.2	632.4	651.9	660.1	683.8	710.4	725.8
15°	599.6	599.6	602.6	613.9	625.2	644.7	673.5	682.7	710.4	743.3	763.8
17.5°	593.4	595.5	597.5	608.8	630.4	663.2	697.1	710.4	744.3	780.3	802.8
20°	594.4	596.5	597.5	608.8	639.6	684.8	727.9	743.3	782.3	820.3	842.9
22.5°	600.6	603.7	604.7	620.1	656.0	707.4	762.8	780.3	822.4	862.4	879.8
25°	626.3	628.3	622.2	635.5	679.6	742.3	808.0	826.5	868.5	905.5	919.9
27.5°	713.5	715.6	681.7	666.3	698.1	771.0	863.4	889.1	941.4	966.1	968.1
30°	902.4	904.5	837.7	764.9	742.3	795.7	894.2	930.1	997.9	1025.6	1013.3
32.5°	1145.7	1143.7	1052.3	944.5	847.0	838.8	938.4	976.3	1050.3	1077.0	1067.7
35°	1390.1	1393.2	1315.1	1152.9	1013.3	919.9	994.8	1039.0	1128.3	1166.3	1149.9
37.5°	1557.4	1578.0	1544.1	1368.5	1217.6	1069.8	1086.2	1133.4	1245.3	1296.7	1261.8
40°	1793.6	1788.4	1706.3	1576.9	1443.5	1291.5	1234.0	1256.6	1385.0	1453.7	1399.3
42.5°	2110.8	2100.5	1960.9	1834.6	1685.8	1561.5	1444.5	1440.4	1545.1	1625.2	1546.1
45°	2398.3	2382.9	2287.4	2165.2	2002.0	1859.3	1701.2	1665.2	1738.1	1805.9	1713.5
47.5°	2627.2	2601.5	2533.8	2469.1	2429.1	2207.3	1970.1	1915.7	1952.7	2003.0	1872.6
50°	2898.2	2827.4	2728.8	2689.8	2773.0	2601.5	2228.9	2176.5	2174.5	2203.2	2036.9
52.5°	3021.4	2893.1	2837.7	2870.5	3017.3	2968.1	2508.1	2433.2	2403.4	2406.5	2189.9
55°	2872.6	2858.2	2888.0	2990.6	3182.6	3153.9	2776.1	2683.7	2639.5	2584.1	2336.7
57.5°	2703.2	2747.3	2865.4	3061.5	3392.1	3347.9	3039.9	2935.2	2854.1	2726.8	2499.9
60°	2547.1	2592.3	2787.4	3077.9	3507.1	3534.8	3259.6	3160.0	3039.9	2872.6	2679.6
62.5°	2310.0	2344.9	2619.0	3054.3	3456.7	3643.6	3412.6	3337.7	3225.7	3011.2	2885.9
65°	2043.0	2065.6	2336.7	2865.4	3358.2	3631.3	3538.9	3496.8	3388.0	3155.9	3090.2
67.5°	1750.4	1777.1	2003.0	2525.6	3165.2	3573.8	3658.0	3653.9	3529.6	3316.1	3238.1
70°	1413.7	1415.8	1602.6	2094.4	2828.4	3458.8	3805.8	3815.0	3665.2	3436.2	3244.2
72.5°	676.6	732.0	1039.0	1462.0	2298.7	3232.9	3902.3	3948.5	3750.4	3432.1	2894.1
75°	155.0	160.2	302.9	695.0	1348.0	2481.4	3661.0	3747.3	3543.0	2968.1	2038.9
77.5°	56.5	59.5	85.2	203.3	518.5	1282.3	2620.0	2746.3	2619.0	1918.8	964.0
80°	38.0	37.0	44.1	90.3	238.2	363.4	1339.8	1414.7	1291.5	655.0	231.0
82.5°	19.5	20.5	30.8	50.3	160.2	126.3	447.6	486.6	400.4	131.4	43.1
85°	9.2	9.2	17.5	31.8	67.8	44.1	99.6	120.1	107.8	57.5	14.4
87.5°	9.2	9.2	16.4	20.5	34.9	18.5	24.6	30.8	28.7	30.8	5.1
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°	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9
2.5°	683.8	682.7	681.7	683.8	682.7	684.8	684.8	686.8	686.8	684.8	683.8
5°	674.5	672.5	670.4	670.4	669.4	671.4	677.6	682.7	683.8	680.7	679.6
7.5°	675.5	675.5	673.5	669.4	662.2	662.2	662.2	668.4	671.4	669.4	668.4
10°	694.0	695.0	689.9	680.7	668.4	657.1	635.5	603.7	573.9	565.7	562.6
12.5°	725.8	726.9	716.6	700.2	674.5	607.8	525.6	449.7	391.2	374.7	371.6
15°	763.8	764.9	746.4	719.7	641.7	486.6	364.5	278.2	226.9	214.6	213.5
17.5°	802.8	800.8	773.1	721.7	544.1	345.0	221.8	177.6	164.3	161.2	162.2
20°	840.8	834.7	796.7	683.8	418.9	225.9	162.2	151.9	148.9	146.8	146.8
22.5°	875.7	863.4	816.2	608.8	293.6	162.2	144.8	142.7	138.6	135.5	134.5
25°	910.6	893.2	828.5	511.3	197.1	141.7	136.5	132.4	127.3	123.2	122.2
27.5°	952.7	928.1	822.4	388.1	147.8	131.4	127.3	121.1	114.0	107.8	105.7
30°	992.8	965.1	787.4	268.0	126.3	121.1	115.0	105.7	96.5	89.3	87.3
32.5°	1043.1	1011.3	724.8	175.6	109.9	105.7	99.6	88.3	76.0	67.8	65.7
35°	1114.9	1079.0	644.7	123.2	96.5	89.3	81.1	68.8	55.4	49.3	48.3
37.5°	1215.6	1167.3	544.1	99.6	85.2	74.9	62.6	50.3	41.1	35.9	34.9
40°	1338.8	1264.8	432.2	88.3	76.0	62.6	47.2	35.9	29.8	25.7	25.7
42.5°	1472.2	1356.2	318.3	81.1	66.7	51.3	34.9	25.7	21.6	19.5	18.5
45°	1609.8	1437.3	214.6	74.9	58.5	39.0	24.6	17.5	14.4	14.4	13.3
47.5°	1752.5	1491.7	138.6	67.8	49.3	28.7	16.4	12.3	10.3	10.3	10.3
50°	1894.2	1520.5	98.6	61.6	40.0	19.5	12.3	9.2	8.2	8.2	8.2
52.5°	1996.8	1502.0	79.1	53.4	30.8	14.4	9.2	7.2	6.2	6.2	6.2
55°	2086.2	1470.2	68.8	46.2	22.6	10.3	7.2	6.2	5.1	5.1	5.1
57.5°	2177.5	1429.1	61.6	39.0	16.4	7.2	5.1	4.1	4.1	4.1	4.1
60°	2260.7	1359.3	53.4	30.8	11.3	5.1	4.1	3.1	3.1	3.1	3.1
62.5°	2341.8	1299.7	46.2	23.6	8.2	4.1	2.1	2.1	1.0	1.0	1.0
65°	2388.0	1219.7	37.0	15.4	5.1	3.1	1.0	1.0	0.0	0.0	0.0
67.5°	2373.6	1124.2	25.7	9.2	3.1	2.1	1.0	0.0	0.0	0.0	0.0
70°	2274.0	995.9	15.4	5.1	3.1	2.1	1.0	0.0	0.0	0.0	0.0
72.5°	1904.4	737.1	9.2	4.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0
75°	1272.0	338.8	5.1	3.1	1.0	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	582.1	101.6	3.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	117.0	26.7	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.6	5.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.0	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)