

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: P382714

Luminaire Tested: **GAN-SA1A-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4664.3 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

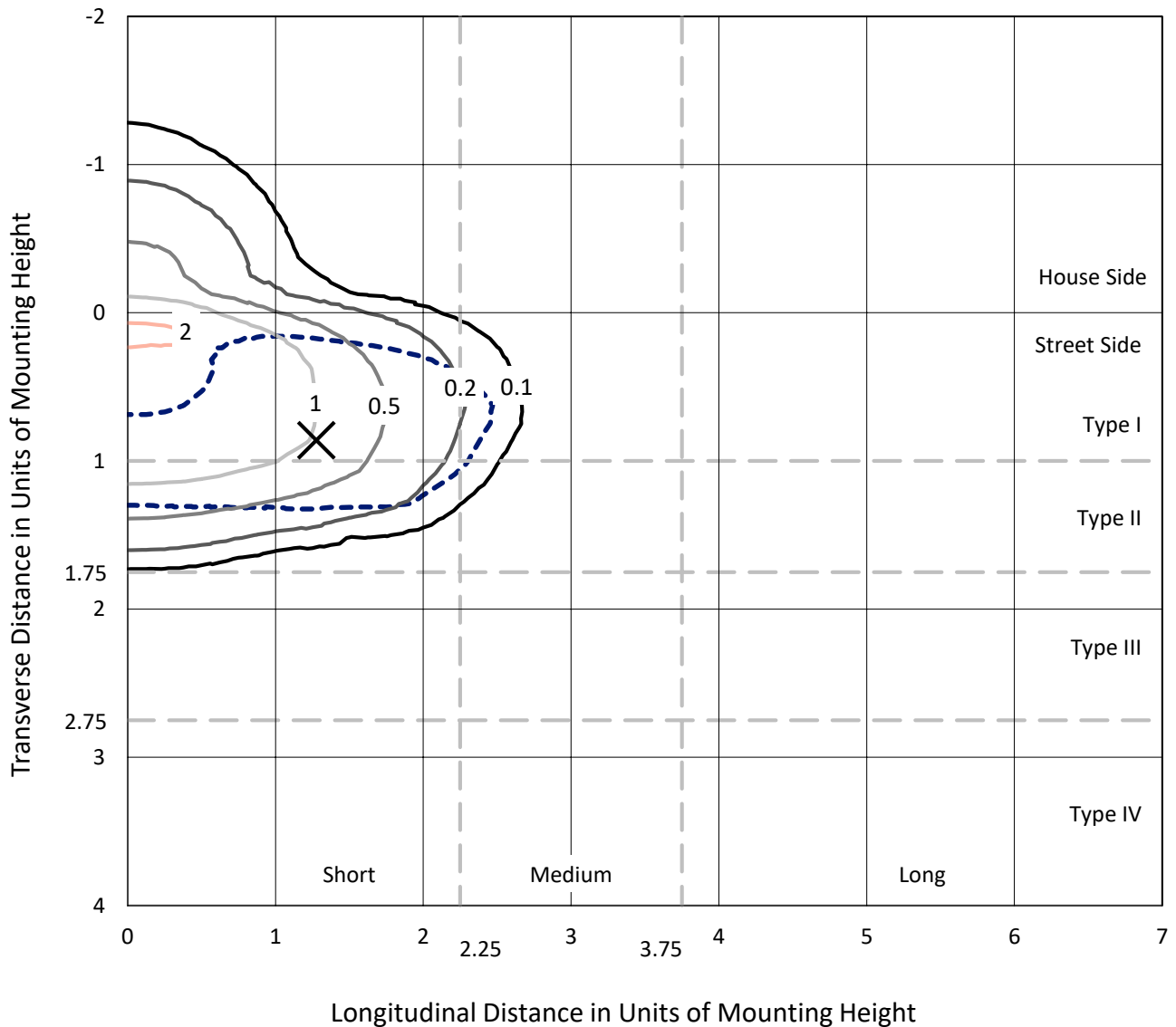
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

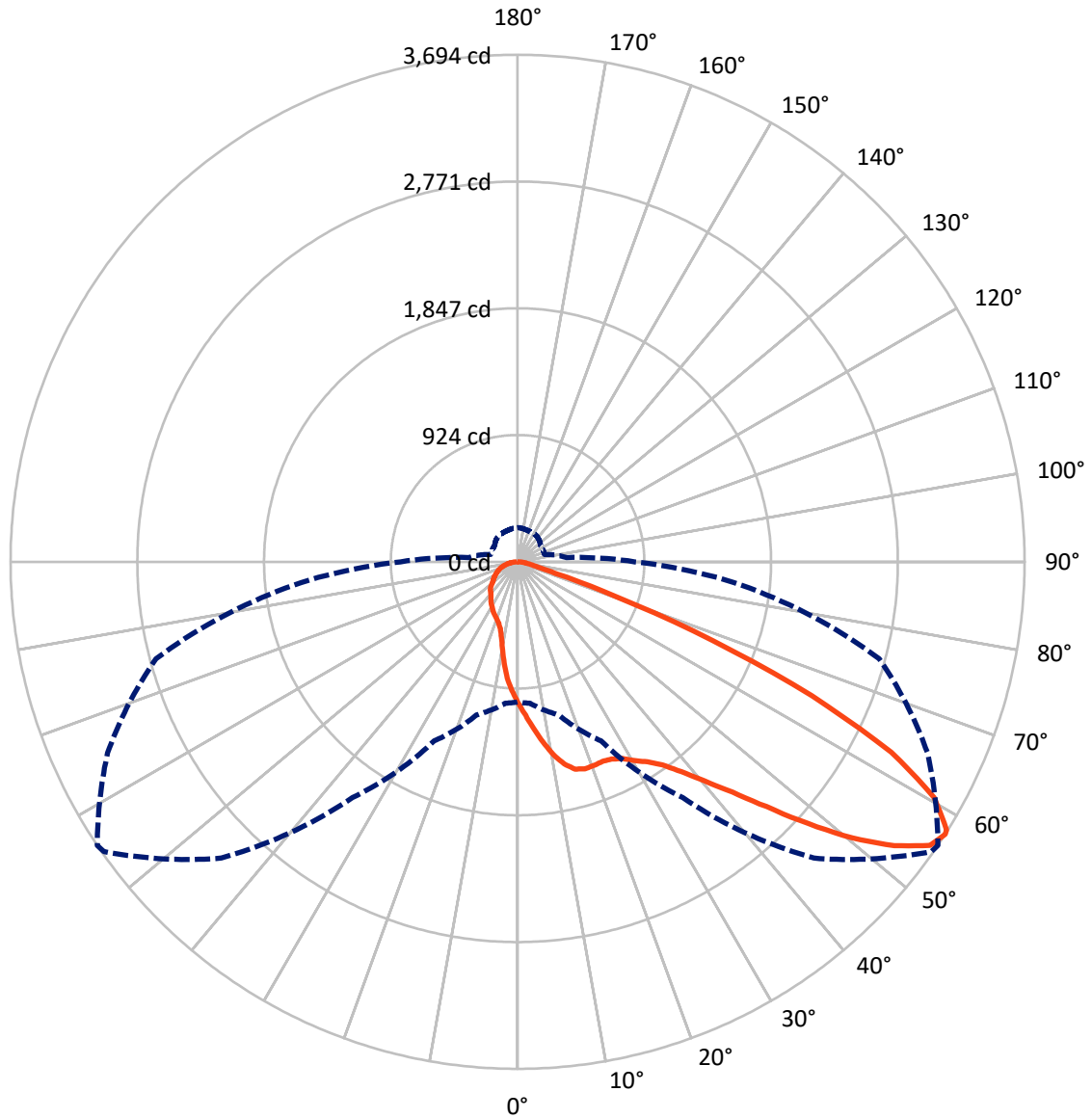
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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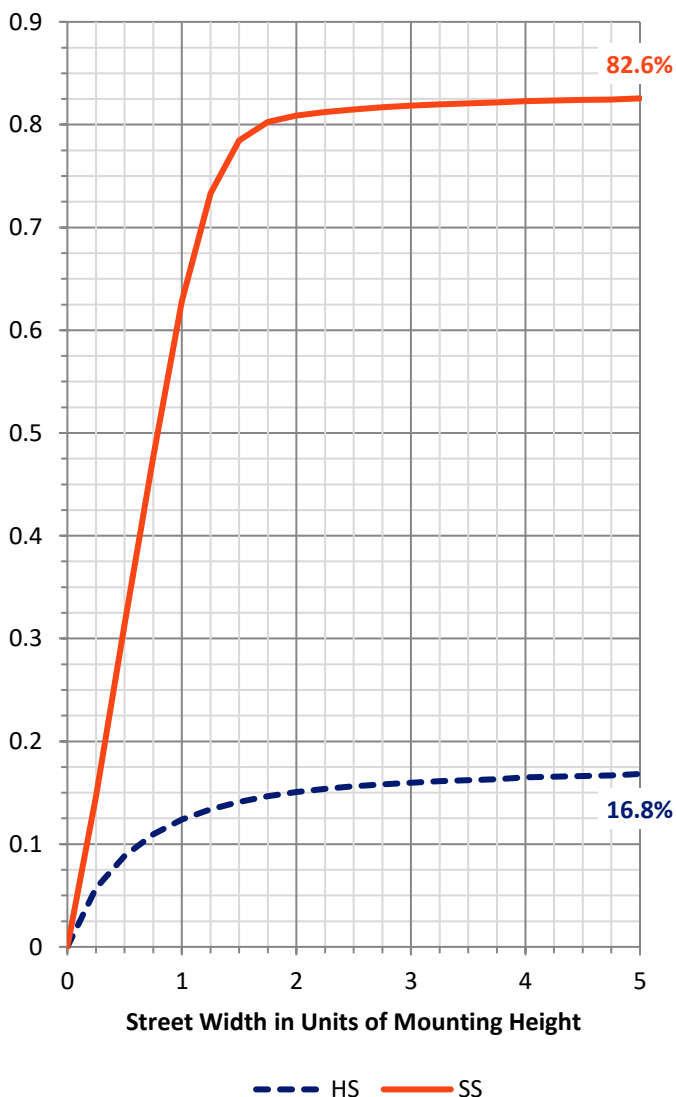
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	804.0	0.0	804.0
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	3860.2	0.0	3860.2
	% Fixture	82.8	0.0	82.8
Total	Lumens	4664.3	0.0	4664.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	2.1
10°-20°	279.4	6.0
20°-30°	455.1	9.8
30°-40°	680.3	14.6
40°-50°	1031.9	22.1
50°-60°	1156.6	24.8
60°-70°	683.1	14.6
70°-80°	223.8	4.8
80°-90°	55.3	1.2
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°	4664.3	100.0
0°-180°	4664.3	100.0

Coefficient of Utilization

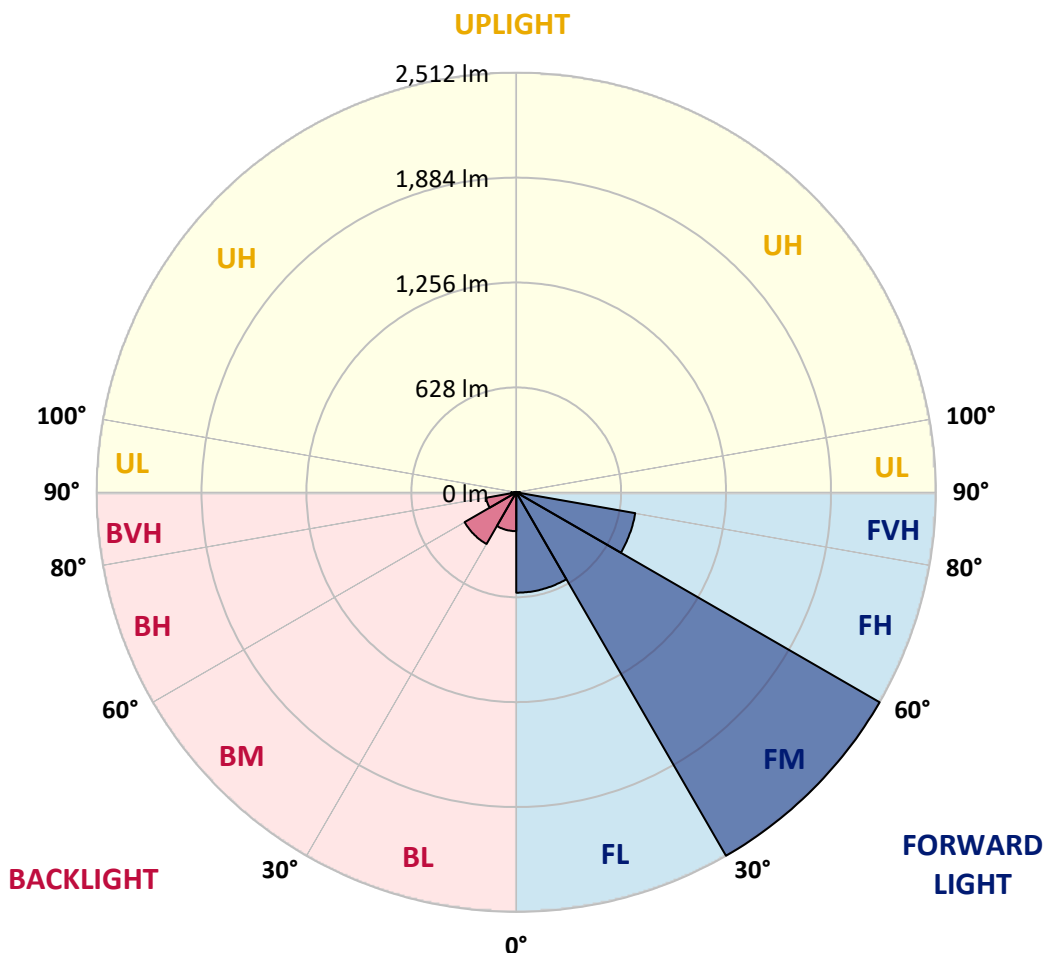


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	600.8	12.9			
FM (30°-60°)	2511.9	53.9			
FH (60°-80°)	723.2	15.5			G1/1800
FVH (80°-90°)	24.3	0.5			G1/100
BL (0°-30°)	232.5	5.0	B1/500		
BM (30°-60°)	356.9	7.7	B1/1000		
BH (60°-80°)	183.7	3.9	B1/500		G1/500
BVH (80°-90°)	30.9	0.7			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6
2.5°	1187.9	1198.8	1194.1	1177.4	1164.5	1146.5	1126.2	1120.1	1098.9	1074.9	1046.2
5°	1376.0	1370.5	1362.7	1336.7	1309.3	1277.3	1226.8	1218.7	1171.2	1117.2	1060.2
7.5°	1483.0	1482.6	1477.9	1462.7	1437.7	1396.0	1334.9	1325.5	1253.9	1166.9	1078.5
10°	1467.5	1466.3	1474.1	1489.9	1497.5	1488.8	1437.4	1427.9	1339.9	1221.9	1099.6
12.5°	1379.2	1379.8	1392.2	1425.5	1470.8	1525.3	1517.0	1512.4	1429.2	1284.1	1125.3
15°	1310.4	1311.8	1321.6	1350.7	1404.2	1503.1	1565.5	1567.0	1515.5	1352.7	1155.2
17.5°	1280.2	1283.3	1287.8	1308.2	1357.2	1458.7	1577.0	1585.6	1591.3	1423.9	1184.1
20°	1289.9	1292.8	1294.0	1307.1	1347.3	1431.8	1568.9	1584.5	1649.3	1490.8	1213.0
22.5°	1333.0	1334.7	1335.6	1338.9	1370.2	1439.4	1563.7	1580.0	1691.2	1551.0	1234.8
25°	1404.5	1403.2	1398.1	1393.8	1414.7	1469.9	1575.8	1591.4	1725.4	1605.5	1249.0
27.5°	1490.1	1488.5	1478.6	1466.7	1478.7	1517.3	1610.9	1623.3	1756.1	1656.5	1256.2
30°	1592.9	1588.7	1569.9	1555.8	1560.4	1588.5	1668.8	1680.0	1803.3	1714.3	1263.3
32.5°	1711.6	1707.2	1680.0	1656.7	1656.7	1680.0	1728.5	1737.7	1843.3	1779.7	1274.6
35°	1860.4	1854.8	1819.5	1780.2	1769.2	1781.0	1809.7	1816.3	1915.5	1862.2	1295.3
37.5°	2035.7	2028.2	1982.5	1930.0	1905.8	1905.1	1925.8	1939.2	2030.8	1970.3	1330.4
40°	2211.6	2206.3	2166.4	2125.0	2077.5	2062.4	2094.2	2098.4	2181.4	2104.6	1375.3
42.5°	2347.5	2346.6	2339.2	2344.6	2296.1	2265.2	2290.3	2293.7	2365.5	2250.1	1423.1
45°	2419.3	2420.9	2456.7	2535.9	2553.8	2531.4	2543.7	2544.7	2575.7	2396.7	1466.8
47.5°	2361.8	2370.1	2460.5	2637.7	2784.6	2859.2	2838.6	2850.5	2779.6	2522.7	1501.2
50°	2137.5	2147.8	2301.7	2592.3	2892.4	3176.4	3165.7	3162.9	2944.2	2615.0	1519.7
52.5°	1859.7	1867.8	1994.7	2356.4	2813.3	3351.7	3450.4	3436.2	3090.3	2684.2	1523.3
55°	1436.7	1449.2	1570.9	1885.8	2493.7	3284.7	3659.7	3647.0	3223.5	2720.3	1519.1
57°	1021.3	1034.6	1155.4	1439.2	2097.8	3052.8	3680.5	3694.0	3295.4	2726.5	1523.7
57.5°	911.4	924.9	1044.6	1320.4	1974.3	2968.9	3662.6	3685.0	3308.5	2725.5	1526.3
60°	458.9	464.1	540.4	737.0	1248.1	2400.2	3428.4	3486.2	3320.1	2678.4	1537.3
62.5°	285.3	281.6	279.3	339.5	607.2	1591.7	2945.1	3056.5	3096.3	2564.2	1510.6
65°	250.9	244.0	217.5	212.7	268.2	773.1	2217.8	2356.4	2617.7	2384.4	1446.8
67.5°	235.6	228.9	199.1	181.1	181.3	306.5	1376.9	1533.0	2039.3	2080.3	1296.3
70°	219.9	213.8	185.9	164.8	154.4	169.7	633.5	751.9	1329.3	1635.1	1083.4
72.5°	199.7	195.5	169.1	147.3	136.3	127.2	242.5	286.5	769.6	1098.2	752.4
75°	178.6	174.8	152.1	131.3	117.8	100.0	136.6	147.2	391.0	561.8	370.5
77.5°	155.3	153.1	135.3	116.1	105.4	82.9	96.7	101.8	167.7	240.9	185.8
80°	123.6	127.9	118.3	103.4	93.4	66.3	68.5	71.8	97.6	117.7	105.5
82.5°	80.5	88.0	92.7	84.0	76.9	52.3	49.2	50.7	63.6	71.8	45.8
85°	33.5	37.6	60.9	55.0	51.1	38.2	33.0	33.6	39.4	40.9	18.7
87.5°	14.9	15.8	26.7	25.2	21.6	13.1	14.1	15.4	21.0	19.8	7.2
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°	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6
2.5°	1035.5	1022.0	999.0	973.5	952.6	935.9	919.2	907.6	894.1	886.9	883.2
5°	1036.3	1009.9	961.3	911.4	866.9	826.2	787.3	757.5	729.7	714.6	710.4
7.5°	1039.7	999.9	921.4	839.3	760.1	687.9	632.1	597.1	572.0	560.7	557.5
10°	1042.4	988.2	872.0	750.5	642.8	569.5	526.2	506.7	498.0	496.6	495.1
12.5°	1048.8	976.2	820.0	657.9	551.6	500.9	485.9	484.6	487.0	490.5	490.5
15°	1058.9	964.3	760.8	578.3	493.5	475.7	478.8	485.9	492.4	497.9	498.7
17.5°	1066.2	949.7	697.0	514.7	462.6	467.5	478.3	488.2	495.0	500.2	500.8
20°	1071.6	927.2	628.8	466.1	444.8	459.7	473.3	482.2	486.8	492.1	492.9
22.5°	1068.9	896.8	568.4	431.3	430.4	448.5	461.5	472.1	468.6	463.4	466.8
25°	1055.7	855.2	506.2	405.4	415.2	433.4	449.5	442.4	430.6	428.3	429.6
27.5°	1032.2	802.0	448.6	381.4	397.5	419.5	418.5	411.5	407.3	404.4	406.2
30°	1007.1	744.2	398.3	360.3	377.9	396.1	392.4	392.3	388.1	383.4	385.7
32.5°	982.3	686.2	358.5	343.0	363.2	365.6	373.6	376.1	367.9	358.1	357.4
35°	960.6	631.4	328.1	327.3	345.4	345.8	357.4	354.1	333.8	323.6	323.6
37.5°	944.5	576.7	305.1	313.2	322.0	330.3	336.3	322.3	319.0	313.4	313.2
40°	937.4	528.7	290.6	302.5	305.5	316.1	300.9	306.3	308.0	305.1	305.1
42.5°	930.1	486.8	278.1	294.3	293.8	292.4	284.7	291.8	298.2	298.3	297.8
45°	922.7	450.8	267.1	276.9	283.6	268.0	269.5	276.9	286.0	289.2	289.2
47.5°	914.5	422.2	256.9	258.4	268.8	258.4	257.3	263.1	273.6	278.7	279.8
50°	896.5	396.6	245.4	242.2	245.1	248.6	249.6	252.3	264.0	272.2	274.1
52.5°	871.6	373.6	230.7	227.3	227.3	240.6	245.1	245.9	255.8	265.6	267.5
55°	851.0	359.0	215.5	214.8	214.2	232.1	239.8	241.1	248.0	255.7	256.6
57°	852.5	357.9	203.7	204.4	204.2	223.5	234.8	237.5	241.1	247.7	248.8
57.5°	853.2	358.7	201.2	201.5	201.3	221.1	233.4	236.4	239.1	246.0	247.1
60°	865.2	360.8	190.8	187.2	188.0	208.2	225.2	229.1	230.8	240.0	241.4
62.5°	847.4	351.6	182.4	173.9	173.9	194.8	213.8	219.9	222.6	235.0	237.4
65°	795.8	325.4	172.6	158.8	160.4	181.3	200.2	210.2	214.3	229.7	232.2
67.5°	716.2	295.1	162.2	145.4	147.0	167.2	186.1	196.8	203.4	223.9	226.0
70°	612.5	258.0	148.1	131.2	133.0	151.8	169.4	181.7	191.4	218.4	219.1
72.5°	451.5	211.6	128.4	115.4	117.5	133.9	152.6	166.7	179.9	204.8	204.6
75°	268.5	165.4	106.6	99.6	101.0	116.3	137.4	154.5	174.2	199.5	202.6
77.5°	162.8	124.5	86.9	83.4	85.1	100.7	126.5	144.8	171.9	188.2	187.2
80°	98.5	89.0	69.4	67.2	68.9	86.1	117.0	137.4	150.2	160.8	160.8
82.5°	51.4	54.3	51.0	49.2	51.6	69.9	106.5	119.9	132.7	113.9	106.5
85°	21.0	28.4	30.9	30.7	32.2	48.4	91.9	102.6	85.6	81.2	83.2
87.5°	7.1	12.0	15.1	12.9	13.6	30.5	63.6	49.6	58.9	41.1	38.9
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)