

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: P321275

Luminaire Tested: **GAN-SA1B-740-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4830 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

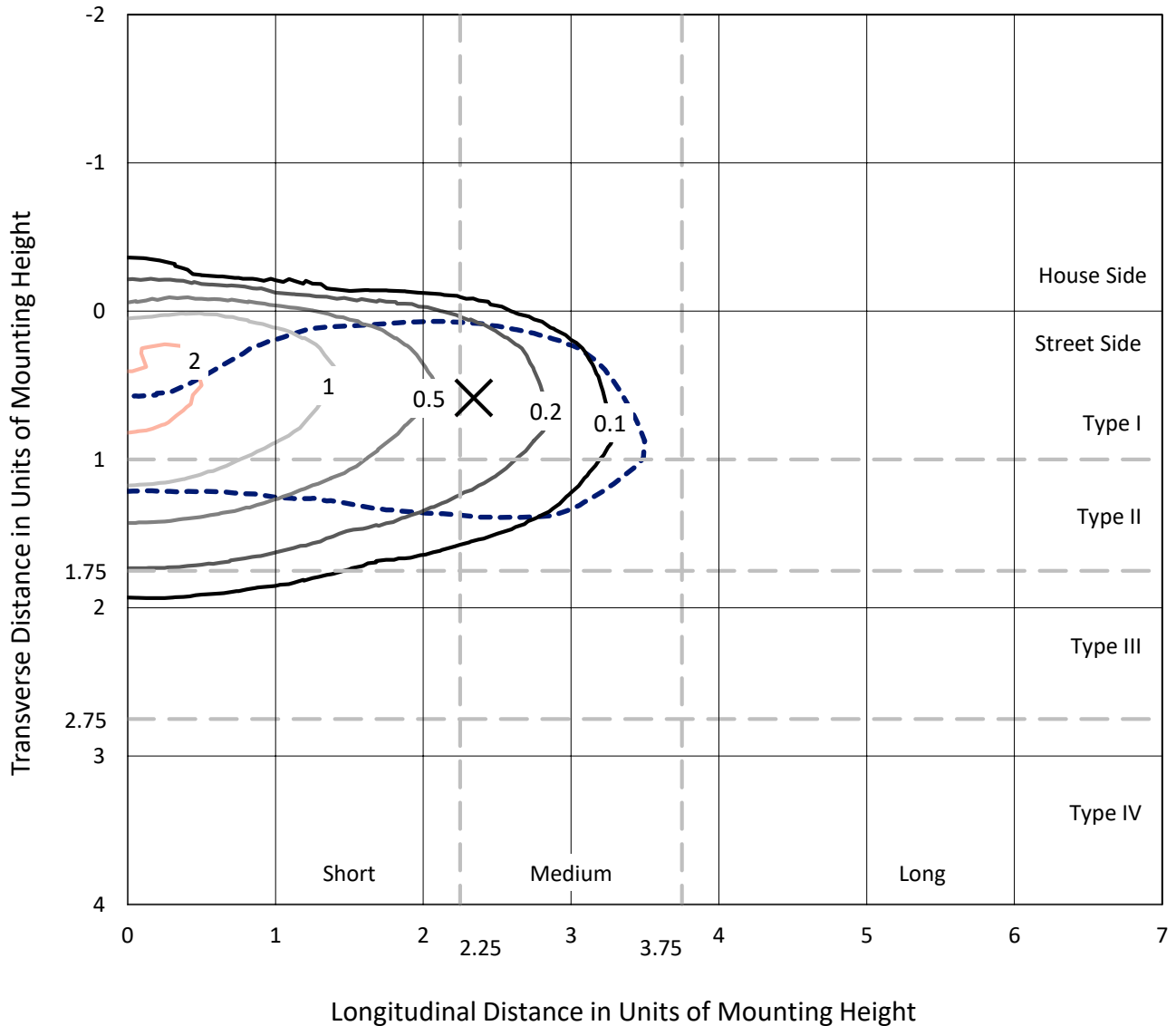
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

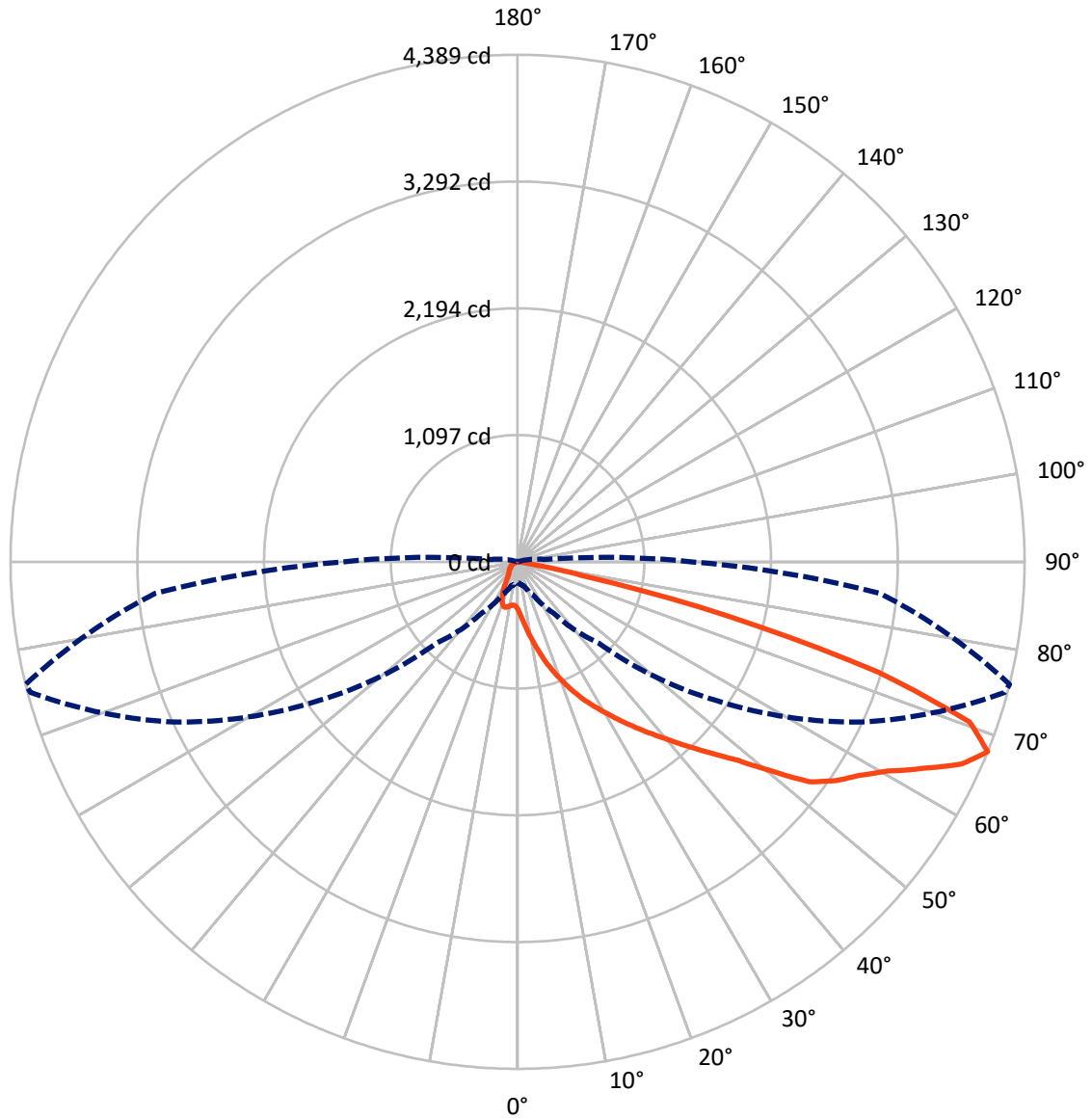
✕ Max cd
 - - - 1/2 Max cd



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

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CATALOG NUMBER: GAN-SA1B-740-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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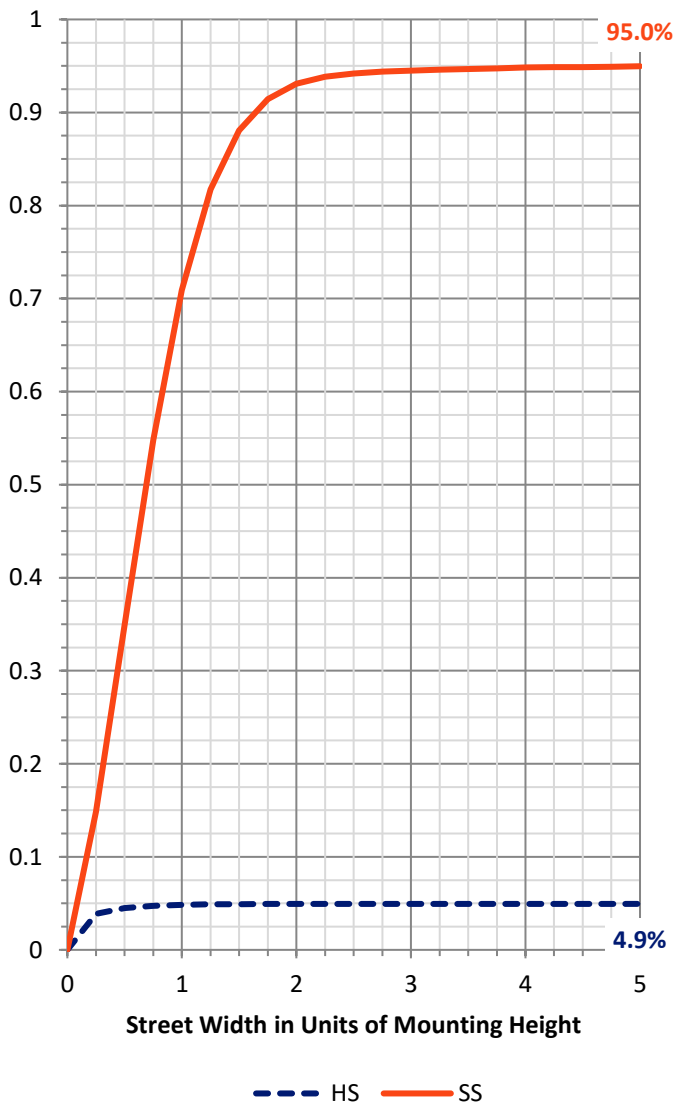
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	239.8	0.0	239.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	4590.2	0.0	4590.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	4830.0	0.0	4830.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.9	1.1
10°-20°	202.0	4.2
20°-30°	410.9	8.5
30°-40°	713.3	14.8
40°-50°	1007.7	20.9
50°-60°	1142.8	23.7
60°-70°	947.9	19.6
70°-80°	343.3	7.1
80°-90°	11.1	0.2
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°	4830.0	100.0
0°-180°	4830.0	100.0

Coefficient of Utilization

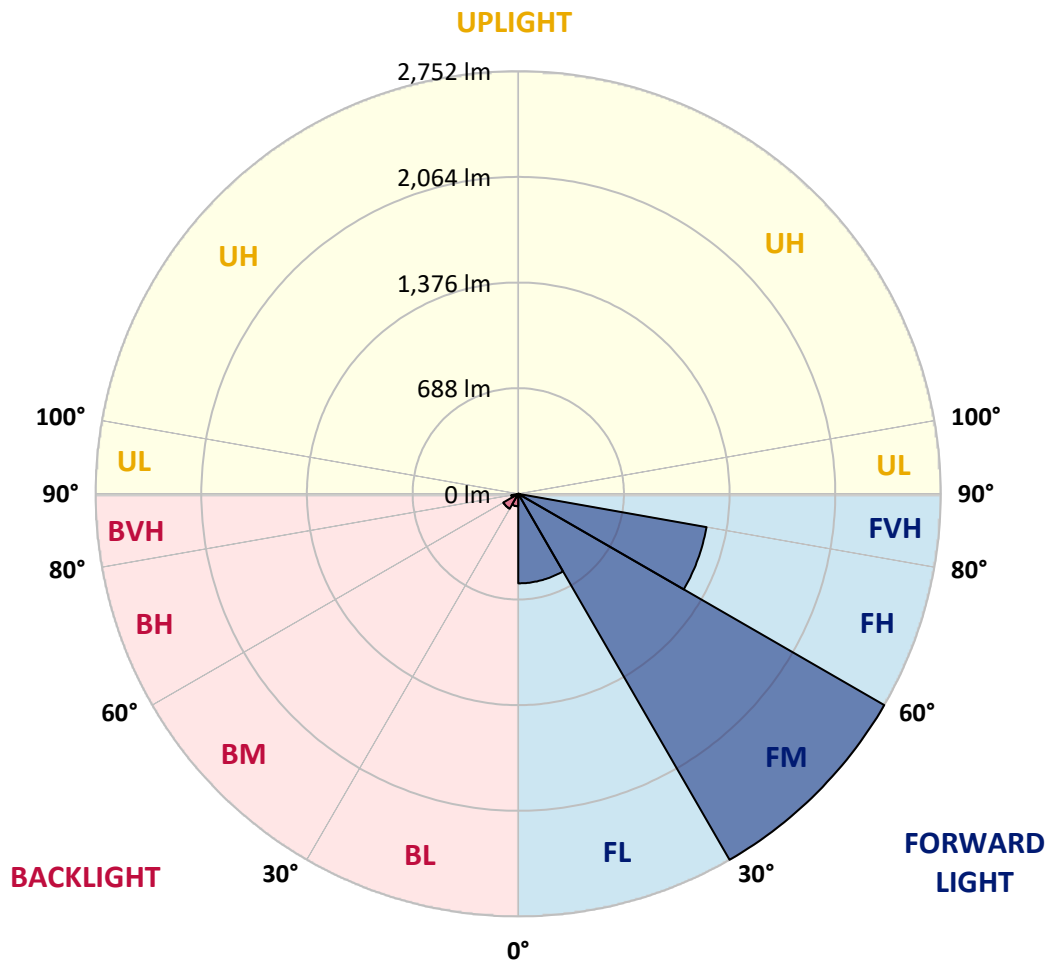


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	583.0	12.1			
FM (30°-60°)	2751.6	57.0			
FH (60°-80°)	1244.9	25.8			G1/1800
FVH (80°-90°)	10.8	0.2			G1/100
BL (0°-30°)	80.9	1.7	B0/110		
BM (30°-60°)	112.3	2.3	B0/220		
BH (60°-80°)	46.4	1.0	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7
2.5°	611.6	597.9	601.0	592.2	576.1	543.1	514.9	488.2	457.1	456.1	430.5
5°	824.7	813.1	811.6	793.6	764.4	708.3	653.7	591.5	522.1	517.0	462.6
7.5°	1018.2	1008.9	1005.5	984.1	929.7	875.1	804.0	712.6	604.0	594.7	506.0
10°	1166.7	1162.3	1163.1	1147.9	1101.3	1050.6	957.2	840.6	696.9	682.5	558.1
12.5°	1279.3	1280.4	1288.0	1278.7	1252.7	1215.0	1115.3	977.1	799.8	780.1	617.5
15°	1362.1	1367.4	1381.3	1393.0	1391.1	1358.5	1267.1	1115.7	909.0	887.2	683.8
17.5°	1415.6	1421.5	1441.9	1467.7	1491.4	1483.8	1413.5	1249.5	1019.4	994.3	754.7
20°	1462.6	1469.6	1491.4	1525.5	1569.7	1579.2	1533.1	1379.2	1129.7	1099.0	827.9
22.5°	1564.4	1564.2	1577.5	1597.4	1639.5	1664.1	1634.9	1499.6	1238.7	1206.7	902.6
25°	1748.5	1741.5	1736.9	1721.2	1730.5	1745.8	1729.5	1612.2	1348.3	1315.9	978.4
27.5°	1967.4	1971.6	1933.9	1891.8	1859.2	1843.5	1816.9	1716.6	1453.7	1418.2	1052.5
30°	2198.2	2199.5	2155.1	2101.3	2029.6	1970.1	1924.0	1816.2	1562.1	1523.3	1124.4
32.5°	2406.5	2398.2	2354.2	2281.0	2190.4	2123.5	2027.7	1927.6	1676.8	1639.3	1204.4
35°	2571.6	2561.8	2508.3	2441.6	2347.7	2280.4	2165.0	2038.7	1797.4	1760.8	1284.6
37.5°	2692.2	2680.8	2625.7	2557.2	2476.1	2437.0	2324.4	2159.5	1929.0	1889.7	1369.1
40°	2734.1	2724.2	2689.7	2639.5	2574.3	2565.4	2493.5	2298.6	2072.3	2030.4	1464.7
42.5°	2709.1	2699.4	2687.1	2670.2	2643.1	2651.6	2653.0	2457.1	2231.5	2190.2	1570.3
45°	2610.1	2601.4	2614.1	2638.9	2672.5	2714.4	2798.7	2627.4	2409.2	2365.2	1692.4
47.5°	2464.3	2457.9	2493.1	2554.8	2653.3	2768.8	2931.8	2806.5	2608.8	2568.0	1844.8
50°	2256.9	2255.8	2326.1	2438.9	2590.2	2795.1	3069.3	3010.1	2886.1	2843.1	2056.7
52.5°	1933.9	1936.0	2074.2	2254.8	2479.5	2777.3	3157.8	3271.7	3208.6	3163.9	2240.1
55°	1626.4	1639.1	1737.1	1997.4	2309.8	2711.2	3188.3	3393.8	3386.6	3344.2	2342.2
57.5°	1325.3	1348.3	1442.7	1685.9	2062.0	2559.1	3171.6	3446.7	3519.1	3486.7	2476.8
60°	998.9	1009.5	1118.3	1345.6	1743.9	2281.4	3050.3	3475.5	3700.2	3677.8	2672.1
62.5°	635.5	662.0	758.5	977.8	1357.8	1895.8	2845.8	3475.0	3926.9	3939.1	2924.2
65°	334.8	365.7	416.9	605.9	933.1	1465.1	2538.3	3442.4	4205.0	4222.1	3121.2
67.5°	180.5	189.4	216.5	314.5	541.1	992.6	2086.5	3281.6	4366.0	4388.7	3148.7
70°	132.1	136.9	147.1	174.0	272.4	576.5	1522.5	2917.0	4158.4	4149.9	2797.6
72.5°	101.4	109.0	116.6	127.4	156.6	307.7	947.9	2284.2	3318.0	3262.1	2091.2
75°	80.0	81.3	92.1	101.8	117.5	175.2	420.9	1330.3	2025.1	1892.9	1084.4
77.5°	63.9	64.8	71.1	79.6	94.4	115.1	130.4	523.4	646.5	576.9	235.3
80°	37.9	40.0	52.9	61.4	78.3	72.6	47.6	113.6	100.9	91.4	39.6
82.5°	21.2	22.9	29.8	48.5	54.6	34.7	23.7	30.7	23.7	23.1	11.2
85°	0.0	1.1	19.3	30.1	22.2	7.6	9.9	10.2	7.0	6.6	4.4
87.5°	0.0	0.0	5.9	5.7	0.8	1.3	2.3	3.4	2.8	2.8	2.3
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°	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7
2.5°	417.8	406.3	384.8	363.6	345.8	331.2	318.1	312.8	308.6	307.9	304.5
5°	436.4	413.3	372.1	338.2	315.5	299.5	285.7	277.2	270.7	268.1	265.8
7.5°	464.5	429.6	370.4	331.4	304.3	277.2	251.8	224.3	207.2	200.6	196.8
10°	498.8	451.2	376.7	329.5	282.1	225.0	182.9	147.9	133.8	129.1	127.8
12.5°	538.8	478.1	387.7	317.7	234.7	159.8	126.1	114.3	111.1	109.6	109.6
15°	584.7	507.5	395.5	283.4	173.5	120.8	109.2	103.7	100.3	98.4	98.6
17.5°	631.7	536.3	391.7	233.6	128.0	107.5	98.8	92.9	88.3	86.3	85.9
20°	679.1	562.9	370.6	174.0	108.4	97.6	87.8	81.3	76.6	74.7	74.3
22.5°	728.2	585.6	333.3	127.6	97.4	86.6	77.0	70.5	66.0	64.3	63.5
25°	776.1	604.0	281.3	103.3	87.0	76.2	67.1	61.0	56.9	55.2	55.0
27.5°	820.7	615.6	220.9	91.2	77.9	66.9	58.6	53.1	49.7	48.5	48.3
30°	860.9	616.7	163.4	82.3	69.8	58.8	51.2	46.3	43.4	42.1	41.7
32.5°	901.6	607.8	118.9	74.3	62.4	51.9	44.4	40.6	38.5	37.5	37.5
35°	939.9	587.3	92.7	67.3	55.2	45.1	39.2	36.4	35.1	34.1	34.1
37.5°	977.3	557.9	78.7	61.2	48.5	39.4	34.5	32.8	31.7	30.7	30.7
40°	1015.4	520.8	71.5	55.4	43.0	34.9	30.7	29.2	28.1	27.3	27.1
42.5°	1062.2	478.1	66.9	50.2	38.1	30.9	27.1	25.4	24.5	23.7	23.3
45°	1116.4	441.3	63.1	44.9	34.1	27.5	23.5	21.8	20.5	19.5	19.3
47.5°	1194.5	414.6	58.0	39.2	30.3	23.9	20.3	18.4	16.5	15.4	15.2
50°	1294.1	392.6	51.4	34.1	26.5	20.3	16.9	14.6	12.9	11.9	11.9
52.5°	1343.7	363.8	45.5	29.6	22.2	17.1	13.8	11.0	10.2	9.1	9.1
55°	1363.6	341.8	39.6	25.2	18.4	14.2	10.8	8.5	7.8	7.2	7.0
57.5°	1419.4	335.4	34.5	21.4	15.2	11.2	8.3	6.3	5.9	5.1	5.1
60°	1509.4	338.6	29.8	18.2	12.3	8.7	6.1	4.9	4.4	3.6	3.6
62.5°	1606.5	334.6	25.2	15.7	9.5	6.3	4.2	3.6	3.6	2.1	1.9
65°	1625.1	298.0	21.6	12.9	7.4	4.7	2.8	2.3	3.2	0.4	0.0
67.5°	1508.3	231.1	18.6	9.9	5.5	3.6	2.1	1.1	2.8	0.0	0.0
70°	1206.1	146.9	15.0	7.2	4.2	3.0	1.7	0.4	2.1	0.0	0.0
72.5°	852.9	85.3	11.9	5.1	3.6	2.3	1.3	0.0	1.3	0.0	0.0
75°	431.3	45.5	7.4	3.8	2.8	1.7	0.8	0.0	0.2	0.0	0.0
77.5°	93.3	21.2	4.7	2.8	1.9	1.1	0.4	0.0	0.0	0.0	0.0
80°	20.3	9.3	3.0	1.7	1.1	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	7.4	4.9	1.5	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.0	2.5	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	0.8	0.2	0.2	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)