

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: P318955

Luminaire Tested: **GAN-SA1B-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4969 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

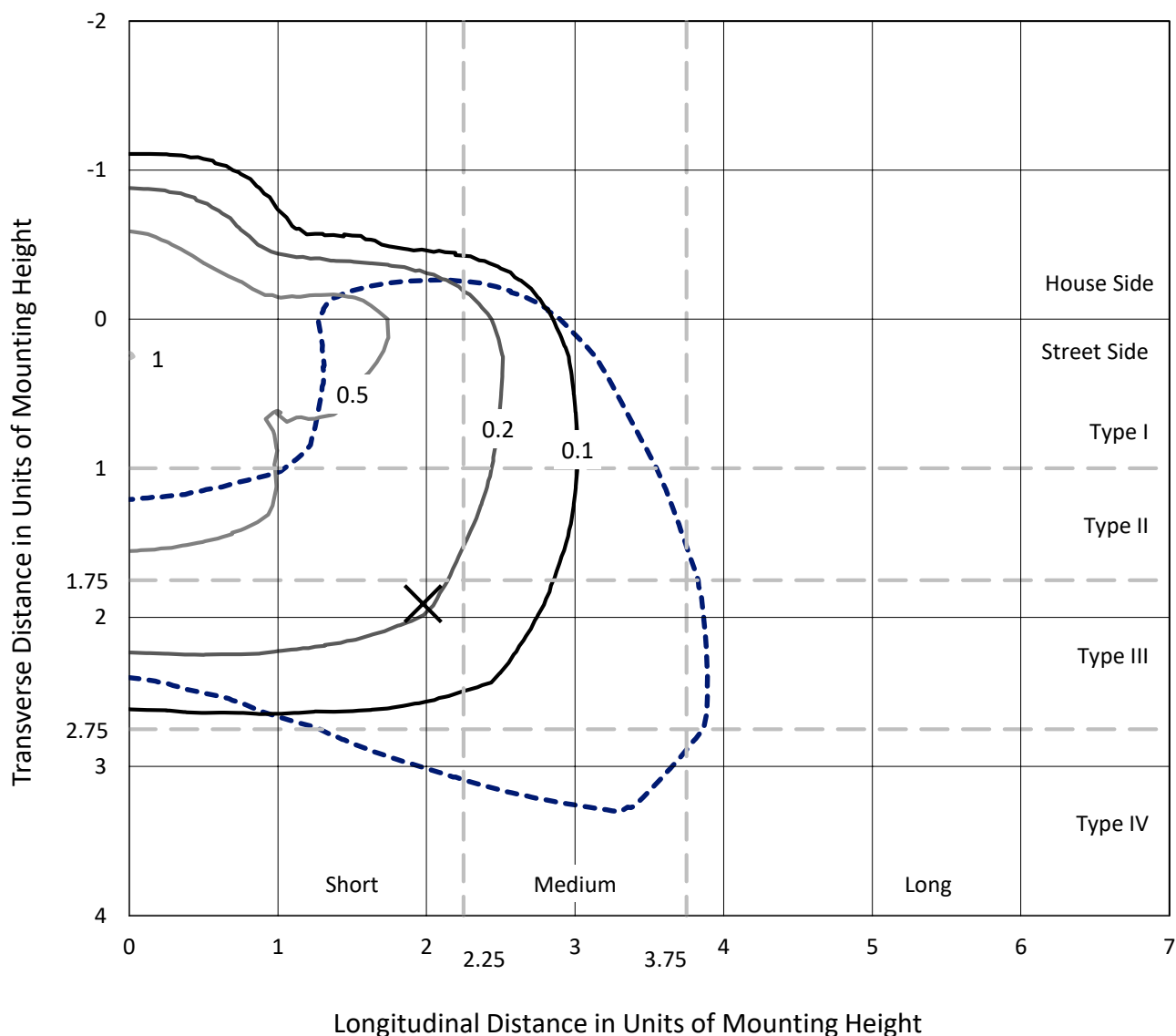
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

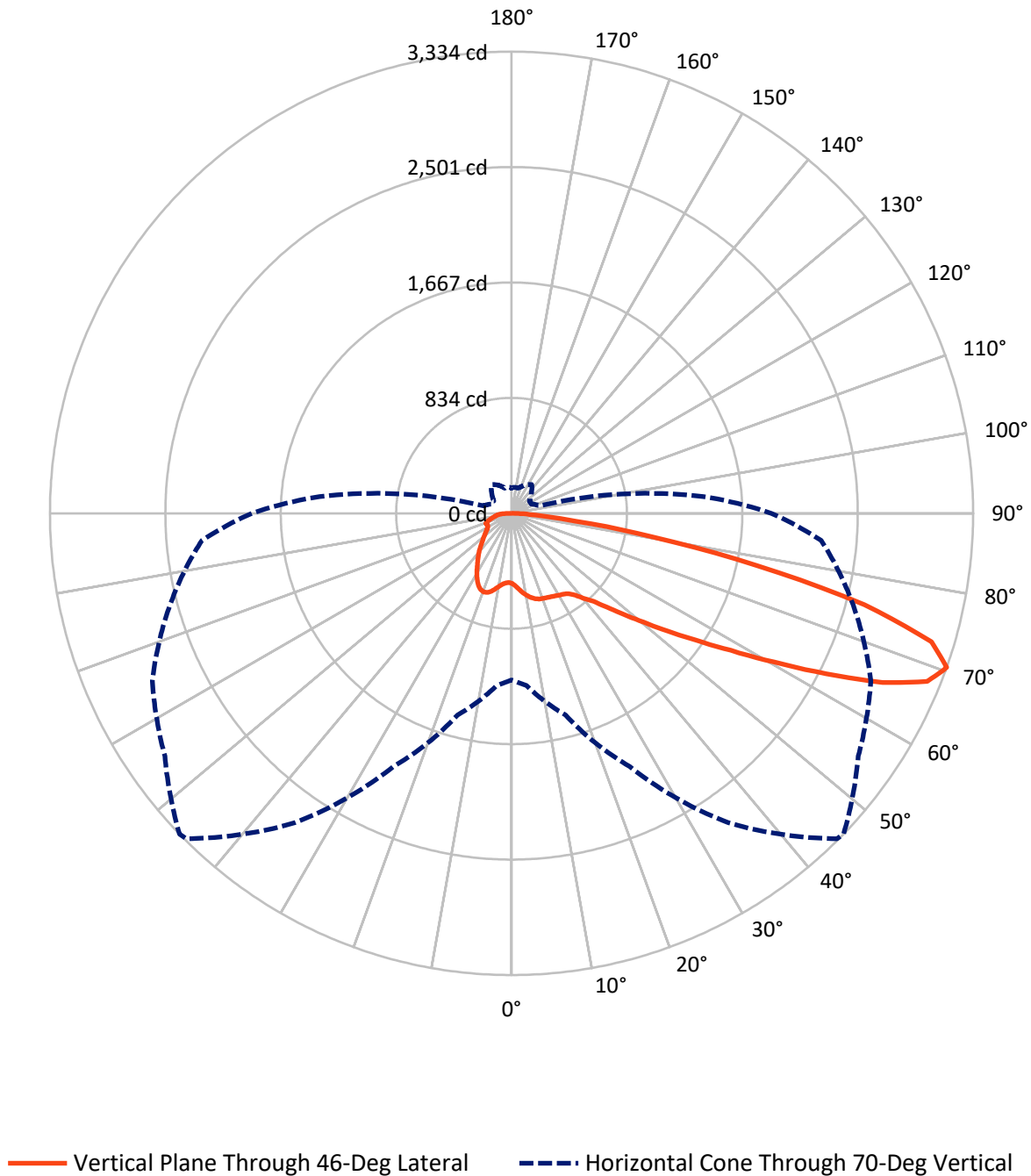
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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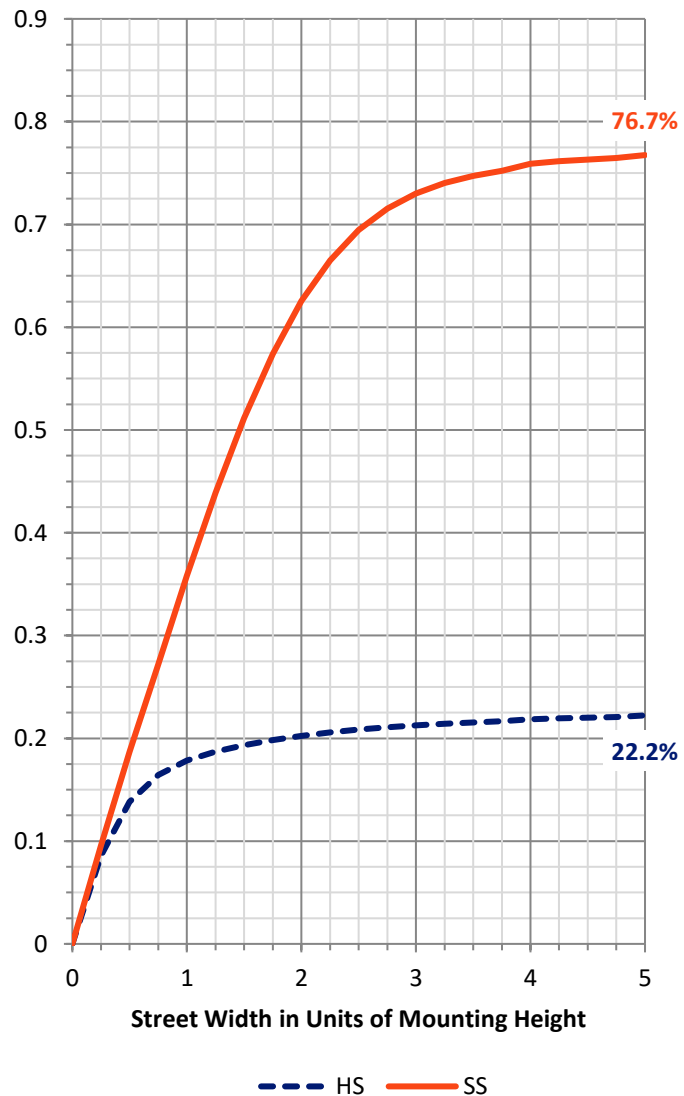
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1138.9	0.0	1138.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3830.1	0.0	3830.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	4969.0	0.0	4969.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	1.0
10°-20°	171.9	3.5
20°-30°	286.7	5.8
30°-40°	406.8	8.2
40°-50°	598.4	12.0
50°-60°	1013.4	20.4
60°-70°	1438.6	29.0
70°-80°	873.9	17.6
80°-90°	127.5	2.6
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°	4969.0	100.0
0°-180°	4969.0	100.0

Coefficient of Utilization



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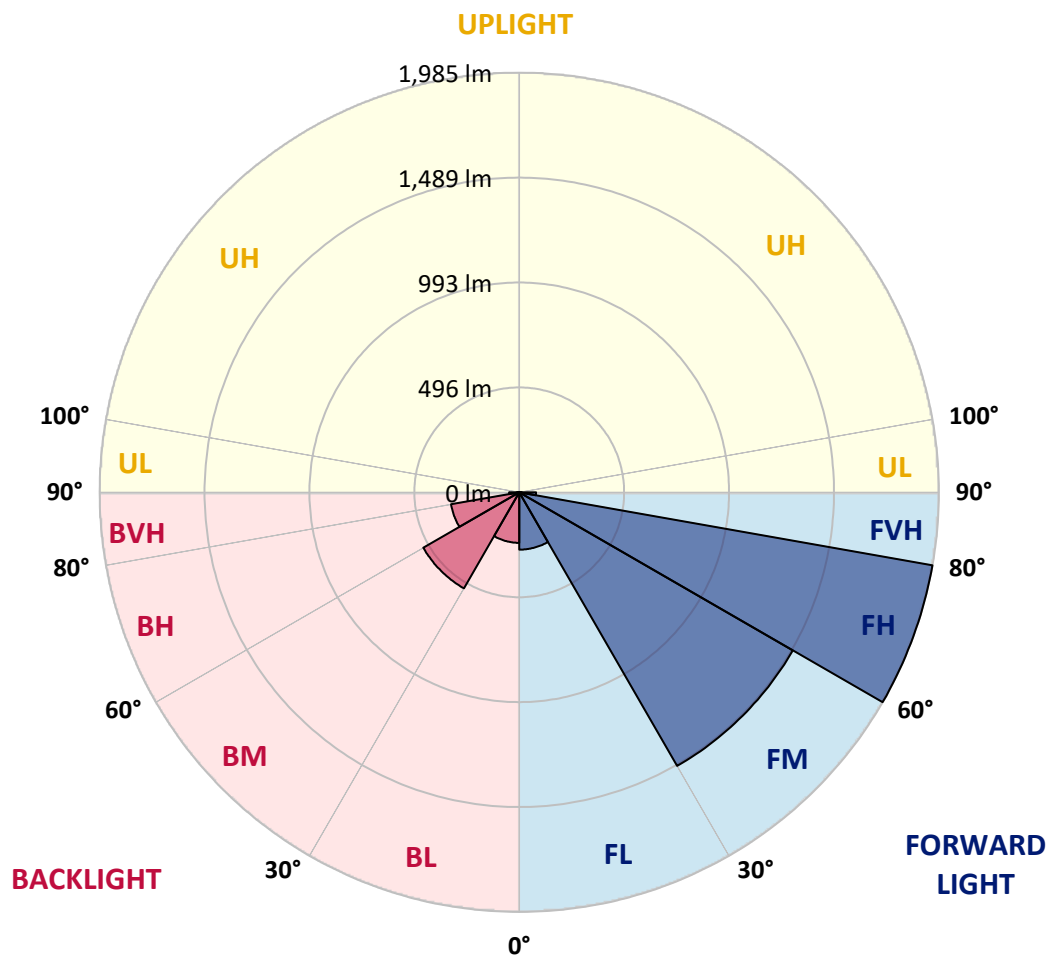
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	271.1	5.5			
FM	(30°-60°)	1494.5	30.1			
FH	(60°-80°)	1985.1	39.9			G2/5000
FVH	(80°-90°)	79.4	1.6			G1/100
BL	(0°-30°)	239.1	4.8	B1/500		
BM	(30°-60°)	524.3	10.6	B1/1000		
BH	(60°-80°)	327.4	6.6	B1/500		G1/500
BVH	(80°-90°)	48.1	1.0			G1/100
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	506.2	506.2	506.2	506.2	506.2	506.2	506.2	506.2	506.2	506.2	506.2
2.5°	531.6	531.9	532.6	530.9	526.1	524.8	524.3	519.3	516.1	511.3	507.3
5°	574.1	574.4	573.4	568.7	558.1	550.3	549.6	538.4	528.2	517.3	509.1
7.5°	618.5	619.0	615.8	606.7	591.9	578.3	577.5	562.2	546.7	530.2	518.0
10°	657.8	655.7	650.4	637.9	620.3	603.7	603.0	587.0	569.2	549.3	532.9
12.5°	683.9	682.2	675.4	660.1	640.9	625.6	624.3	609.5	592.1	570.4	550.8
15°	698.4	699.6	690.4	673.1	654.4	641.4	640.2	629.7	614.2	592.3	569.8
17.5°	700.3	701.3	692.5	675.3	660.0	651.1	650.6	643.6	632.4	611.3	587.9
20°	689.4	690.1	682.8	668.6	658.6	655.9	655.7	652.7	644.3	625.6	602.8
22.5°	673.6	674.1	668.8	658.6	655.2	659.5	660.7	659.5	653.5	636.0	614.6
25°	669.7	669.3	663.9	653.5	656.4	665.4	666.9	667.5	663.4	648.1	629.5
27.5°	688.5	687.3	677.0	660.3	662.2	673.1	675.1	680.0	677.5	664.1	646.5
30°	743.1	741.1	719.8	686.2	677.0	682.6	685.1	693.0	693.5	682.2	669.2
32.5°	835.3	832.7	794.7	734.5	702.0	692.3	694.7	706.4	712.7	704.0	689.9
35°	951.8	948.9	898.9	816.6	743.8	710.8	712.5	721.9	734.5	722.2	703.5
37.5°	1073.2	1066.2	1018.1	913.2	810.3	750.4	750.4	751.6	757.6	732.1	719.5
40°	1193.9	1187.0	1143.4	1026.8	896.3	812.8	808.9	782.6	777.8	755.9	751.6
42.5°	1306.2	1304.1	1278.4	1155.2	997.4	874.2	868.8	824.1	825.1	811.5	811.7
45°	1425.5	1425.5	1404.6	1284.7	1115.0	972.9	967.4	901.6	911.8	905.5	920.7
47.5°	1523.0	1526.0	1523.2	1419.8	1251.9	1098.2	1088.3	1009.1	1037.7	1059.3	1103.3
50°	1622.5	1627.2	1627.7	1567.9	1417.4	1247.2	1235.9	1151.8	1215.5	1277.4	1364.0
52.5°	1766.8	1777.6	1734.9	1715.7	1620.1	1424.0	1413.0	1335.2	1441.7	1528.6	1677.7
55°	1900.7	1891.3	1860.9	1872.8	1837.1	1625.4	1617.0	1548.8	1693.7	1806.6	2000.3
57.5°	1973.1	1972.4	2003.0	2054.1	2071.1	1873.6	1866.7	1800.3	1977.9	2062.7	2303.2
60°	2058.1	2059.3	2135.2	2251.0	2321.0	2182.8	2179.7	2129.4	2253.9	2301.8	2540.7
62.5°	2070.0	2091.5	2222.1	2421.4	2555.0	2544.0	2550.8	2425.8	2500.8	2492.6	2718.1
65°	1933.1	1961.4	2197.7	2472.9	2787.7	2939.0	2945.3	2723.9	2695.5	2655.7	2781.5
67.5°	1652.6	1694.4	1951.2	2360.8	2864.4	3231.0	3239.8	2955.0	2857.0	2711.0	2628.8
70°	1202.6	1249.0	1507.5	2016.3	2727.6	3324.3	3334.4	3057.2	2863.2	2553.7	2244.2
72.5°	726.5	762.9	975.9	1484.4	2302.2	3154.3	3172.1	2927.6	2614.0	2163.1	1657.2
75°	319.0	342.8	471.9	855.4	1648.1	2609.8	2632.1	2505.9	2123.9	1572.0	979.5
77.5°	135.9	142.7	193.5	371.6	931.7	1783.3	1813.9	1830.9	1441.0	855.4	413.9
80°	84.7	87.4	109.5	168.2	436.0	1001.6	1034.6	1077.3	715.6	314.4	144.5
82.5°	51.5	54.6	72.8	101.7	227.0	454.0	469.9	500.0	277.7	135.9	74.8
85°	30.9	33.2	44.6	64.3	129.2	178.6	178.4	197.3	130.8	87.4	39.5
87.5°	14.8	16.5	23.8	33.3	65.1	67.0	62.7	71.1	79.4	57.3	19.9
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°	506.2	506.2	506.2	506.2	506.2	506.2	506.2	506.2	506.2	506.2	506.2
2.5°	505.9	505.2	503.0	501.3	501.0	500.0	499.1	499.6	500.3	500.5	500.5
5°	505.7	503.9	501.0	499.8	501.3	503.4	505.9	509.3	511.3	512.9	513.9
7.5°	513.9	510.3	507.1	506.4	509.5	514.9	520.7	527.8	532.8	536.2	536.9
10°	527.5	523.1	519.8	520.5	526.0	533.8	542.0	551.1	558.6	563.2	563.6
12.5°	543.1	538.9	535.8	538.7	547.7	557.3	565.8	573.8	580.6	585.1	585.1
15°	561.2	558.1	554.5	561.2	573.4	581.9	585.5	589.4	593.1	596.5	595.9
17.5°	578.5	575.6	573.8	581.6	594.3	598.2	595.9	593.0	593.0	594.8	595.2
20°	593.5	590.9	592.1	599.8	606.4	602.3	593.5	584.3	580.6	581.6	582.6
22.5°	606.6	605.4	609.0	612.5	607.8	593.5	577.2	564.7	560.2	559.8	560.2
25°	621.9	621.7	626.1	619.7	598.6	572.2	550.3	538.2	535.7	537.7	541.1
27.5°	640.9	642.8	645.0	621.4	579.9	540.1	517.8	509.5	512.0	517.0	520.2
30°	665.2	670.3	665.6	617.1	553.0	503.4	482.1	479.7	486.7	493.7	497.1
32.5°	688.9	696.9	685.3	606.1	518.3	464.4	447.9	447.2	455.7	462.5	467.3
35°	707.9	723.7	700.1	584.1	478.2	428.5	416.5	411.9	414.9	422.9	428.4
37.5°	732.8	759.1	710.3	550.6	434.7	398.9	384.8	374.3	371.6	374.8	377.5
40°	778.2	813.0	715.1	503.9	392.1	369.4	355.1	339.6	328.9	321.1	321.2
42.5°	852.3	883.2	712.0	447.1	352.9	340.4	324.3	306.4	289.1	271.4	270.0
45°	972.7	987.7	702.8	386.9	318.3	310.2	295.0	277.2	254.1	234.0	232.1
47.5°	1165.4	1132.2	688.5	334.3	287.9	284.5	270.6	250.0	225.5	209.3	208.0
50°	1428.1	1340.9	681.6	292.5	261.0	262.0	250.7	228.9	205.8	193.9	192.5
52.5°	1742.3	1583.9	695.0	260.2	239.4	243.0	234.5	214.1	194.7	185.4	184.0
55°	2068.3	1835.5	709.5	236.7	219.0	226.0	223.1	206.3	188.8	180.1	178.9
57.5°	2347.4	2023.4	680.5	217.7	200.8	211.7	214.3	201.3	185.7	177.9	176.5
60°	2523.1	2099.1	604.7	199.8	186.4	200.3	209.2	200.0	186.9	186.2	185.2
62.5°	2606.4	2092.5	490.9	185.7	177.4	195.4	212.9	207.6	200.5	206.6	207.1
65°	2569.0	1992.5	365.6	176.3	170.9	197.3	224.1	222.1	204.4	210.5	211.4
67.5°	2322.7	1753.9	270.7	168.2	163.8	202.5	244.5	226.8	196.7	201.2	198.5
70°	1877.4	1390.5	208.8	159.0	156.4	201.9	253.7	224.0	188.4	189.4	182.1
72.5°	1294.6	948.2	169.9	150.5	145.9	184.0	247.3	216.8	181.4	173.6	163.9
75°	704.0	509.0	144.4	141.7	127.4	161.5	235.4	211.7	175.2	164.8	159.3
77.5°	277.0	211.2	125.3	129.6	111.4	142.7	222.1	202.0	166.5	152.9	150.2
80°	113.1	107.8	103.9	112.1	95.7	124.8	206.1	190.6	156.1	141.8	136.4
82.5°	64.1	67.0	80.8	88.4	77.7	115.0	198.5	181.4	143.7	127.0	120.6
85°	32.8	39.3	56.3	63.4	57.1	97.8	182.8	158.8	115.3	97.3	97.8
87.5°	15.8	21.9	35.5	39.8	37.1	70.7	136.6	115.1	89.8	71.1	68.9
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)