

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: P322205

Luminaire Tested: **GAN-SA1C-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4914 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

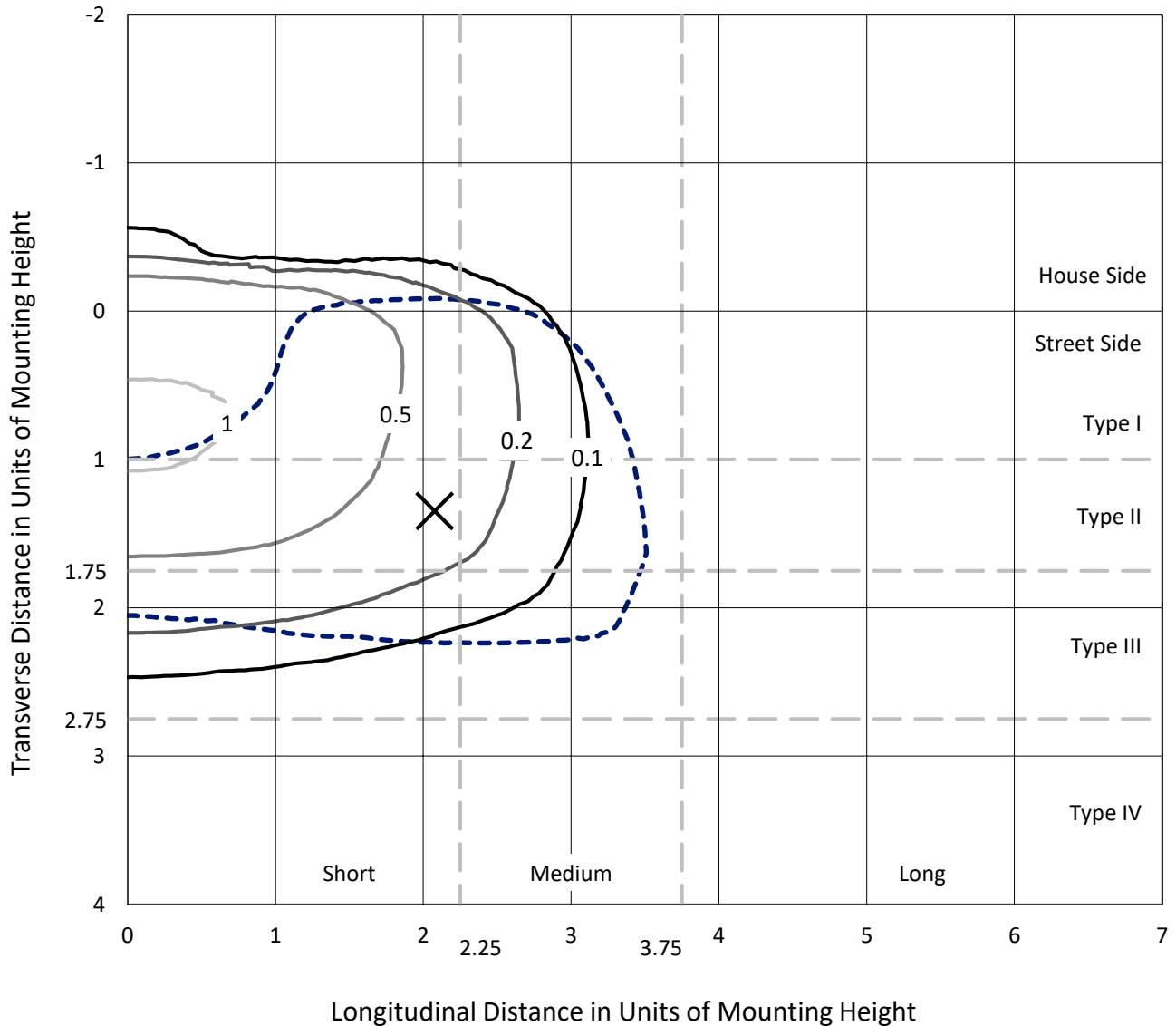
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322205
 CATALOG NUMBER: GAN-SA1C-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

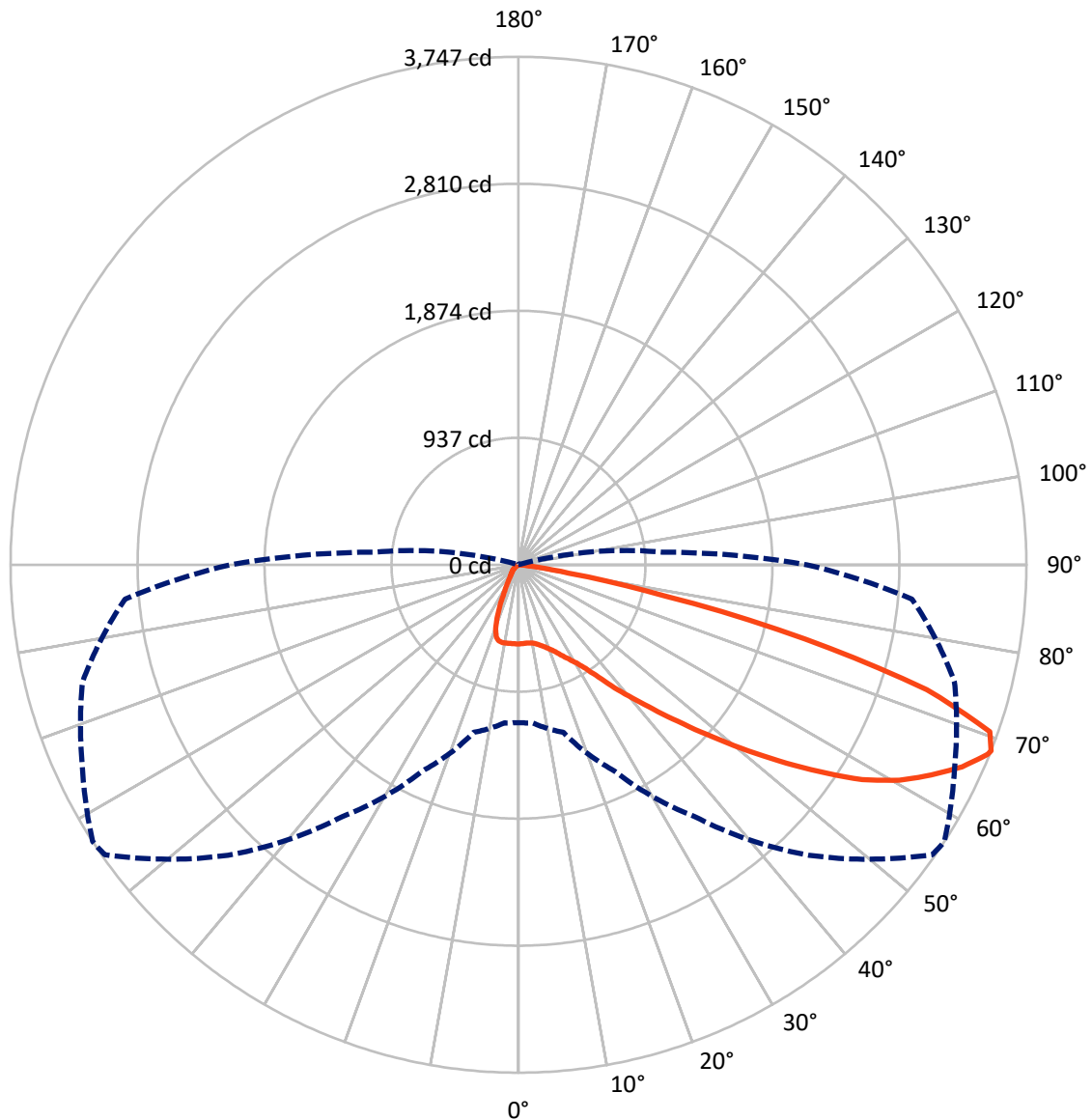
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type III - Short - N/A

REPORT NUMBER: P322205
CATALOG NUMBER: GAN-SA1C-730-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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 CATALOG NUMBER: GAN-SA1C-730-U-T3-HSS

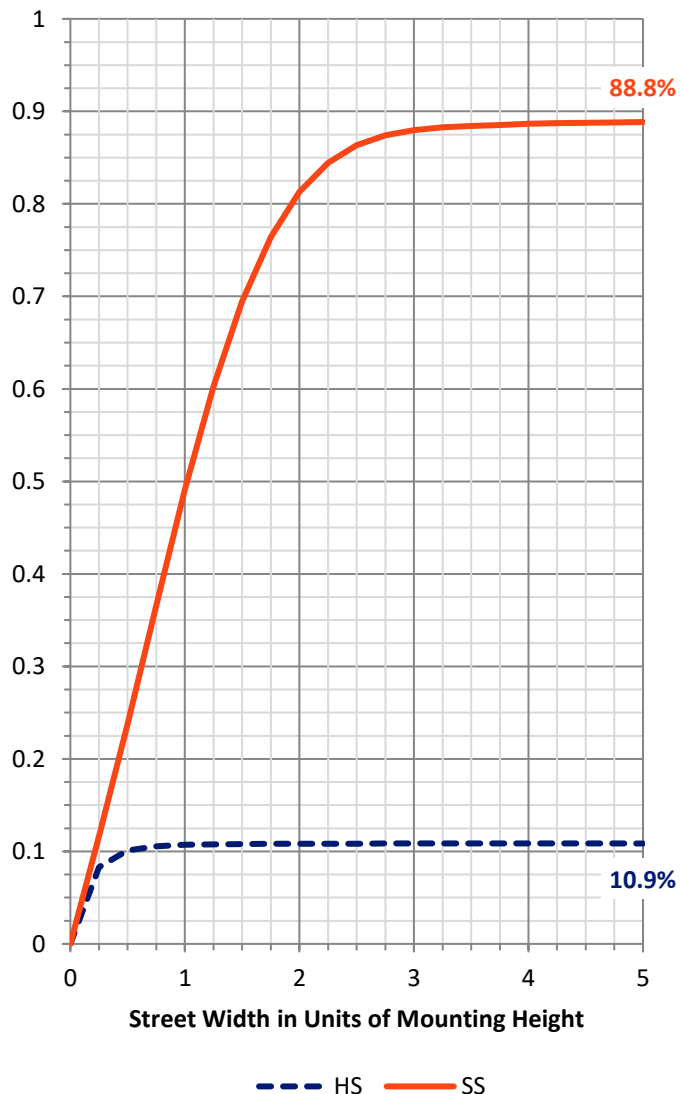
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	538.8	0.0	538.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	4375.2	0.0	4375.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	4914.0	0.0	4914.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	1.1
10°-20°	151.4	3.1
20°-30°	261.2	5.3
30°-40°	450.9	9.2
40°-50°	771.2	15.7
50°-60°	1233.9	25.1
60°-70°	1425.6	29.0
70°-80°	544.7	11.1
80°-90°	20.4	0.4
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°	4914.0	100.0
0°-180°	4914.0	100.0

Coefficient of Utilization

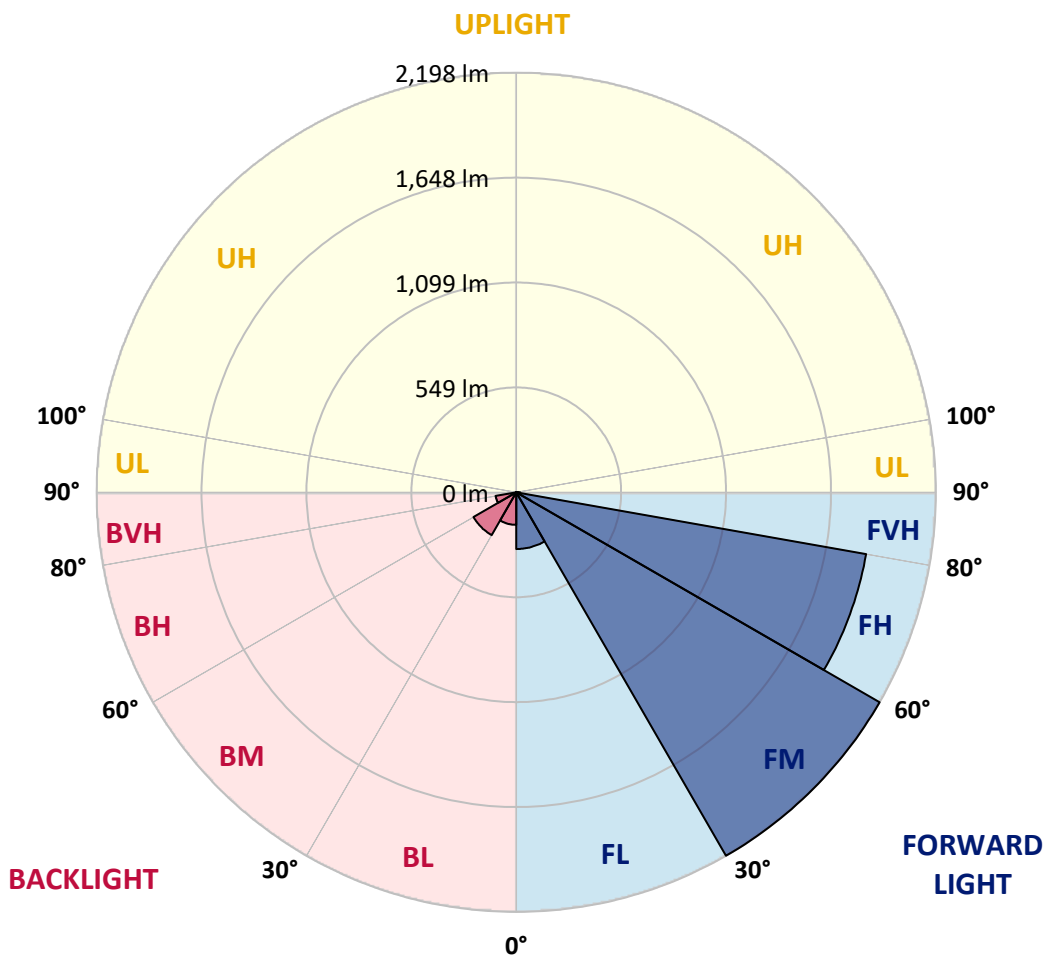


REPORT NUMBER: P322205
 CATALOG NUMBER: GAN-SA1C-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	297.0	6.0			
FM (30°-60°)	2197.5	44.7			
FH (60°-80°)	1860.6	37.9			G2/5000
FVH (80°-90°)	20.0	0.4			G1/100
BL (0°-30°)	170.3	3.5	B1/500		
BM (30°-60°)	258.4	5.3	B1/1000		
BH (60°-80°)	109.7	2.2	B0/110		G0/110
BVH (80°-90°)	0.4	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	583.9	583.9	583.9	583.9	583.9	583.9	583.9	583.9	583.9	583.9	583.9
2.5°	570.2	572.8	574.6	575.8	577.2	580.2	581.1	582.5	583.2	583.2	584.8
5°	547.7	550.5	554.4	557.7	564.2	572.5	578.6	580.9	585.1	588.8	590.9
7.5°	526.8	530.0	534.7	542.3	553.5	567.0	579.5	582.8	590.9	598.8	602.7
10°	513.3	515.8	521.9	532.8	547.4	566.3	583.9	587.9	601.8	615.0	622.5
12.5°	508.6	511.0	517.2	529.5	547.7	569.7	594.1	599.9	620.4	639.7	650.1
15°	515.4	515.8	522.6	534.2	552.1	578.3	611.1	618.1	643.9	669.0	682.0
17.5°	541.4	539.3	542.8	547.9	562.1	589.7	629.0	639.4	673.8	703.3	715.7
20°	606.5	606.5	598.6	584.6	584.8	607.4	653.2	665.0	707.1	741.2	752.4
22.5°	717.8	715.7	699.9	665.7	634.3	637.8	682.7	698.0	747.0	783.5	787.2
25°	851.6	849.0	824.6	776.5	722.2	687.1	722.6	740.3	794.7	827.0	819.3
27.5°	993.3	991.2	967.1	907.4	830.0	765.6	770.3	787.0	843.2	875.1	850.7
30°	1130.6	1131.3	1107.4	1046.1	958.5	865.8	830.7	840.4	890.4	922.7	887.8
32.5°	1261.2	1262.2	1241.5	1172.9	1091.1	982.2	914.3	911.8	945.2	977.1	937.1
35°	1377.6	1380.0	1365.8	1312.6	1225.9	1111.8	1022.8	1016.8	1023.1	1059.1	1012.6
37.5°	1489.9	1491.3	1480.6	1435.7	1363.2	1254.3	1159.9	1151.3	1137.9	1165.5	1112.3
40°	1612.8	1609.3	1597.0	1556.3	1494.1	1411.6	1307.2	1292.4	1268.9	1293.5	1243.3
42.5°	1727.1	1723.2	1725.2	1679.2	1626.7	1573.3	1479.0	1453.4	1439.7	1468.0	1404.1
45°	1870.0	1867.9	1874.9	1834.9	1792.4	1753.6	1675.8	1647.9	1641.8	1675.1	1598.6
47.5°	2011.0	2016.2	2037.8	2020.8	2003.6	1969.5	1884.2	1871.6	1875.4	1915.5	1803.8
50°	2128.6	2134.7	2193.9	2213.4	2238.3	2218.3	2132.8	2125.1	2139.8	2176.0	2024.5
52.5°	2213.7	2226.0	2299.6	2389.6	2480.2	2493.7	2408.4	2401.4	2421.2	2426.7	2195.1
55°	2272.7	2283.6	2367.0	2531.5	2716.0	2774.1	2721.1	2694.2	2690.5	2635.4	2374.5
57.5°	2283.1	2282.0	2401.9	2623.3	2901.0	3050.8	3017.4	2990.9	2914.7	2828.2	2580.1
60°	2224.1	2230.9	2370.0	2655.1	3017.2	3260.2	3262.8	3228.4	3109.6	3015.8	2779.5
62.5°	2042.4	2069.8	2210.4	2571.7	3015.8	3344.5	3442.6	3416.3	3274.4	3169.3	2981.6
65°	1747.8	1757.5	1891.6	2285.9	2812.0	3309.2	3604.6	3594.8	3422.8	3318.5	3085.5
67.5°	1276.3	1255.2	1396.0	1800.1	2380.7	3103.4	3720.7	3733.0	3537.4	3349.2	2974.9
68°	1164.8	1171.1	1280.8	1679.9	2267.8	3030.6	3728.4	3747.2	3548.8	3329.2	2914.5
70°	694.3	706.4	804.2	1156.7	1725.2	2619.1	3645.7	3688.7	3480.9	3123.1	2520.8
72.5°	177.3	191.7	284.2	517.7	985.4	1845.4	3077.6	3150.3	3022.3	2533.6	1701.8
75°	73.0	76.7	101.5	170.5	367.1	831.4	2028.5	2184.2	2095.2	1516.8	769.1
77.5°	50.4	53.0	65.3	94.6	158.9	281.8	994.5	1106.9	997.3	517.7	167.8
80°	36.2	38.3	46.7	63.0	91.3	100.6	324.1	374.8	297.6	113.6	41.6
82.5°	21.6	23.2	34.9	44.8	55.5	48.1	80.6	91.5	86.2	56.5	18.6
85°	10.7	12.5	23.5	32.1	30.0	20.2	24.6	27.4	33.9	34.4	10.0
87.5°	0.7	1.4	13.7	19.3	8.4	4.6	7.2	8.8	12.1	17.0	4.2
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°	583.9	583.9	583.9	583.9	583.9	583.9	583.9	583.9	583.9	583.9	583.9
2.5°	585.5	585.8	584.1	583.4	583.9	581.1	580.0	580.4	580.4	581.1	580.0
5°	591.3	591.3	588.6	584.8	582.8	577.4	573.9	573.0	572.3	571.8	570.9
7.5°	603.9	602.5	597.6	589.5	582.5	570.9	562.1	557.4	555.1	554.2	553.5
10°	624.1	621.6	613.4	598.3	582.3	561.6	542.3	528.6	517.2	512.6	509.8
12.5°	651.3	647.6	633.9	608.8	580.7	542.6	500.7	460.5	423.1	407.8	400.1
15°	682.7	677.3	655.7	617.6	571.1	499.6	408.7	338.3	286.5	267.0	258.6
17.5°	714.5	707.5	674.8	623.2	542.6	410.6	286.7	216.6	181.9	172.6	169.4
20°	746.6	736.3	691.3	619.0	478.0	296.0	189.1	158.2	148.2	145.5	144.5
22.5°	777.0	761.2	706.1	602.7	378.5	198.7	149.6	139.9	136.6	135.0	134.5
25°	803.5	781.4	719.1	552.5	267.9	150.1	134.8	131.5	127.3	124.3	124.5
27.5°	828.4	801.6	727.0	469.8	178.7	128.3	124.8	120.4	112.7	108.3	108.3
30°	858.3	828.6	732.9	361.5	131.5	113.4	110.6	103.9	93.4	87.6	87.6
32.5°	903.4	869.5	729.1	253.7	109.0	99.7	93.2	83.9	72.5	66.9	66.7
35°	972.4	932.7	702.6	166.4	96.2	86.7	76.2	64.8	54.8	50.2	50.0
37.5°	1065.4	1017.3	643.2	119.0	86.2	74.6	62.0	49.5	42.1	39.0	38.8
40°	1185.9	1115.5	558.1	96.4	76.9	63.0	47.9	38.3	33.2	30.9	31.1
42.5°	1330.7	1220.8	456.1	83.2	67.8	51.8	37.4	30.2	27.0	25.3	24.9
45°	1491.5	1324.7	349.2	74.1	58.8	41.8	29.3	23.9	21.4	20.4	20.4
47.5°	1668.3	1425.7	255.6	66.2	49.0	32.3	23.5	19.5	17.4	16.7	16.5
50°	1828.9	1495.9	184.3	57.9	40.2	25.6	19.1	16.3	14.9	13.9	13.9
52.5°	1962.7	1518.0	135.7	48.8	32.5	20.4	15.8	13.9	12.5	11.9	11.9
55°	2080.5	1508.9	100.8	40.2	26.3	16.7	13.5	11.9	10.7	10.0	10.0
57.5°	2193.4	1479.6	75.3	32.8	21.1	13.5	11.4	10.0	8.8	8.4	8.4
60°	2285.7	1430.9	56.0	26.5	17.0	10.9	9.5	8.1	7.2	6.5	6.5
62.5°	2360.5	1376.9	41.1	21.8	13.5	8.6	7.4	6.7	5.3	4.6	4.6
65°	2361.0	1287.5	30.9	18.1	10.5	6.7	5.6	5.3	3.5	2.8	2.6
67.5°	2190.2	1110.0	23.7	15.6	8.1	5.1	4.2	4.4	1.9	1.2	0.9
68°	2128.2	1064.9	22.3	15.3	7.7	4.9	4.0	4.4	1.6	0.9	0.7
70°	1794.3	847.2	17.9	14.9	6.7	3.7	3.3	4.4	1.4	0.7	0.5
72.5°	1147.6	491.7	13.2	11.9	5.1	2.8	2.1	4.0	1.4	0.5	0.2
75°	488.4	152.4	9.1	8.4	3.0	2.1	1.4	2.6	0.9	0.2	0.0
77.5°	102.9	34.4	5.3	5.1	2.1	1.4	0.9	0.7	0.2	0.0	0.0
80°	26.5	10.0	2.8	2.6	1.2	0.7	0.5	0.0	0.0	0.0	0.0
82.5°	8.4	4.0	1.6	1.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	2.3	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	0.7	0.2	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)