

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: P322855

Luminaire Tested: **GAN-SA1D-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5363 lumens
Efficiency: N/A
Efficacy: 80.0 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

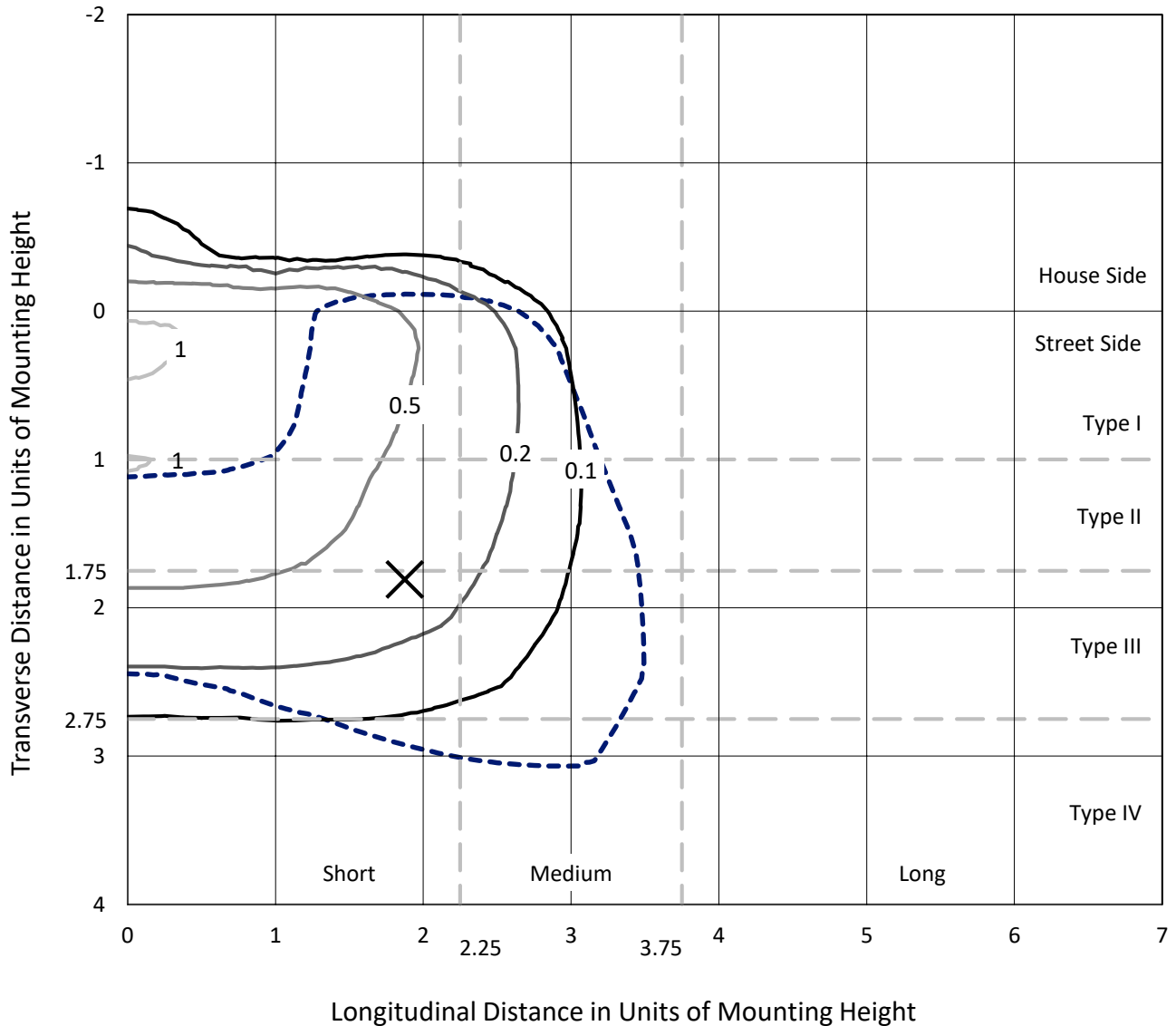
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

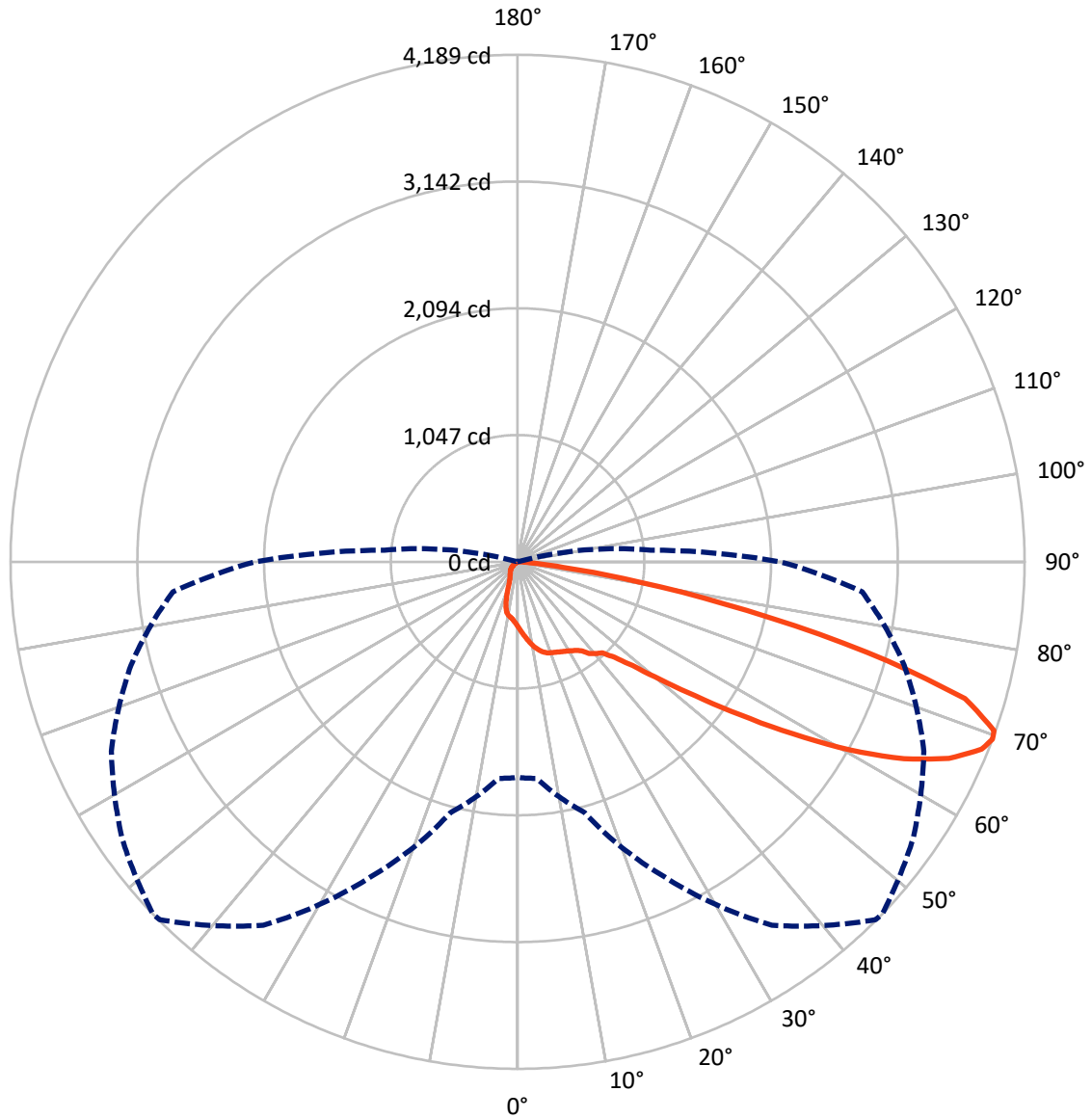
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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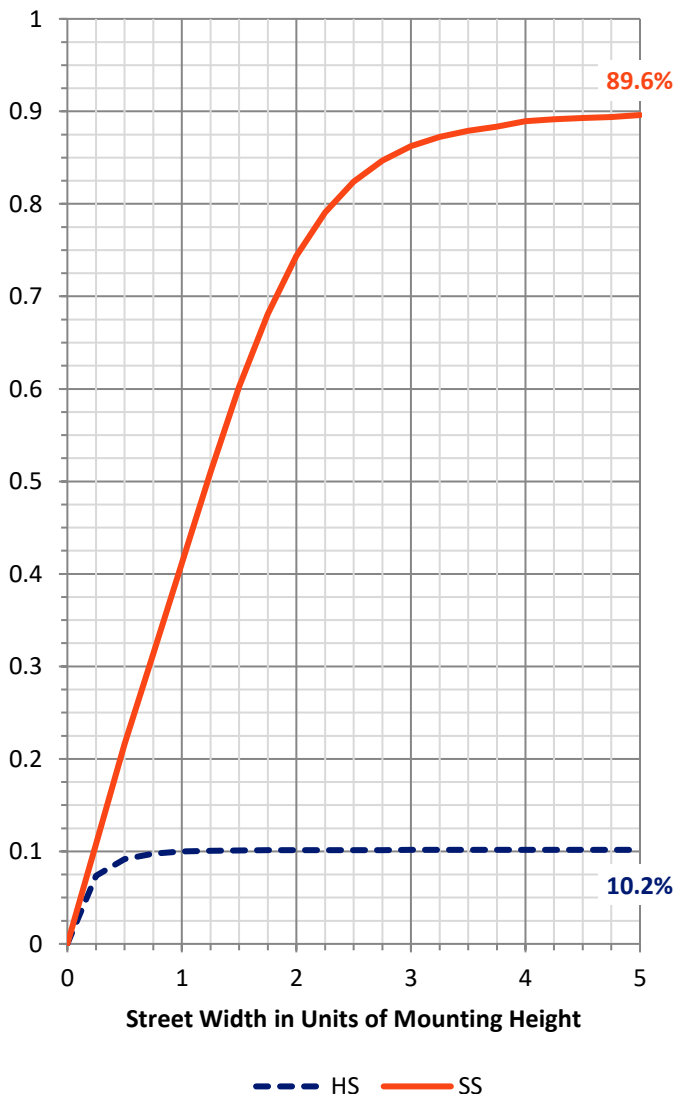
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	550.4	0.0	550.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	4812.6	0.0	4812.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	5363.0	0.0	5363.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	1.0
10°-20°	162.3	3.0
20°-30°	255.2	4.8
30°-40°	365.9	6.8
40°-50°	632.5	11.8
50°-60°	1249.5	23.3
60°-70°	1746.3	32.6
70°-80°	843.7	15.7
80°-90°	54.2	1.0
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°	5363.0	100.0
0°-180°	5363.0	100.0

Coefficient of Utilization



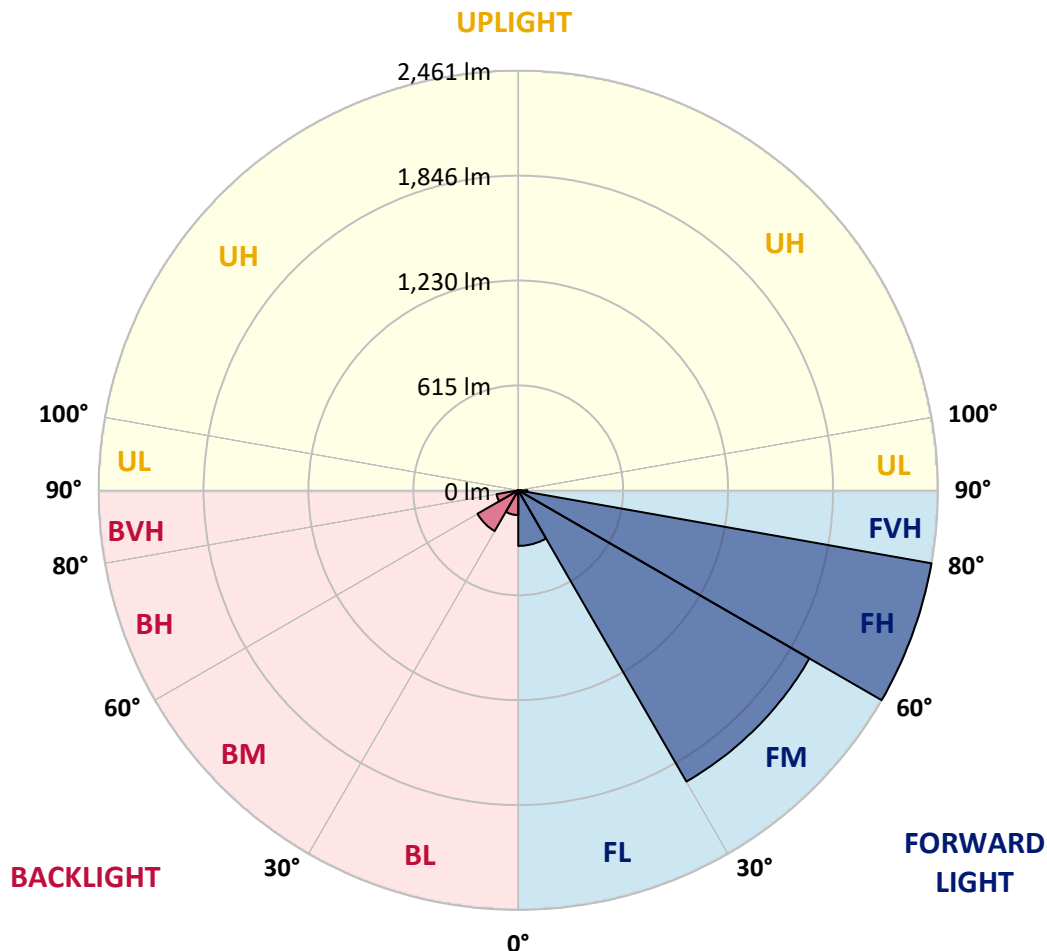
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	325.9	6.1			
FM (30°-60°)	1972.1	36.8			
FH (60°-80°)	2460.9	45.9			G2/5000
FVH (80°-90°)	53.8	1.0			G1/100
BL (0°-30°)	145.1	2.7	B1/500		
BM (30°-60°)	275.8	5.1	B1/1000		
BH (60°-80°)	129.1	2.4	B1/500		G1/500
BVH (80°-90°)	0.5	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	537.4	537.4	537.4	537.4	537.4	537.4	537.4	537.4	537.4	537.4	537.4
2.5°	596.9	596.2	592.7	591.2	582.6	577.6	575.6	569.3	560.2	551.2	541.1
5°	664.8	664.6	658.0	651.8	635.7	620.6	617.8	603.2	582.9	563.8	544.6
7.5°	734.2	731.0	724.4	712.4	689.0	664.8	662.6	642.0	613.0	585.4	558.0
10°	793.1	791.1	782.5	764.2	736.8	709.3	706.6	681.2	648.5	614.5	579.6
12.5°	838.8	837.3	826.0	803.1	774.0	745.6	741.8	719.2	684.2	646.2	605.0
15°	866.8	866.0	852.2	827.8	799.1	774.5	771.2	751.3	718.9	679.2	632.7
17.5°	873.3	873.5	859.2	834.6	810.9	793.3	790.8	775.7	748.6	709.1	660.3
20°	858.7	861.7	848.9	827.5	812.9	803.6	801.6	792.6	769.7	732.5	682.4
22.5°	838.1	839.6	830.8	816.5	810.4	812.2	811.2	806.2	786.8	752.6	704.3
25°	825.5	825.5	820.2	808.2	812.2	823.0	823.3	822.2	806.9	777.2	731.0
27.5°	825.0	823.5	817.5	808.4	819.5	836.1	837.1	843.9	834.3	807.2	764.2
30°	845.1	843.4	830.5	818.7	832.8	850.7	853.2	868.0	863.2	839.6	801.1
32.5°	892.2	885.9	857.5	838.1	848.6	870.0	873.3	896.9	904.5	879.6	836.8
35°	956.5	936.7	895.7	874.8	875.8	898.2	901.2	935.9	958.3	916.3	864.5
37.5°	1045.3	1035.5	968.8	913.0	917.5	951.5	960.3	998.0	991.7	936.4	895.9
40°	1239.9	1224.6	1153.7	1020.1	957.5	994.7	997.5	1017.6	1018.1	981.9	961.3
42.5°	1504.9	1498.7	1424.0	1214.5	1036.2	1023.7	1028.7	1062.6	1100.6	1078.0	1077.0
45°	1798.4	1795.1	1715.9	1472.5	1195.4	1118.5	1124.7	1170.3	1242.9	1248.0	1279.9
47.5°	2034.5	2033.0	1987.5	1760.4	1439.1	1279.1	1281.1	1329.4	1457.2	1520.3	1571.3
50°	2249.7	2257.0	2221.1	2072.0	1771.0	1530.8	1526.1	1558.2	1763.4	1866.8	1930.1
52.5°	2549.0	2559.3	2458.4	2362.6	2119.2	1843.1	1839.4	1873.1	2131.6	2209.0	2220.3
55°	2813.2	2795.6	2715.9	2688.3	2543.9	2228.9	2227.9	2257.5	2487.6	2520.6	2541.4
57.5°	2929.9	2923.1	2961.6	3025.0	2988.8	2684.8	2682.5	2659.9	2806.2	2809.7	2873.8
60°	3003.6	3011.9	3129.8	3325.2	3415.5	3175.3	3160.7	3022.7	3110.5	3102.7	3171.3
62.5°	2948.3	2964.6	3176.8	3502.5	3734.8	3603.6	3582.9	3355.1	3370.5	3343.6	3407.4
65°	2654.6	2680.0	3027.7	3469.0	3893.2	3938.2	3917.4	3648.6	3576.9	3532.6	3497.2
67.5°	2155.4	2170.5	2533.6	3178.1	3821.8	4137.9	4133.6	3905.8	3732.8	3500.7	3225.6
69°	1781.3	1796.1	2145.6	2871.8	3664.7	4180.6	4188.9	3988.3	3703.1	3306.6	2858.0
70°	1508.7	1524.6	1850.2	2609.3	3482.4	4160.8	4175.6	3980.5	3618.1	3081.8	2535.4
72.5°	791.3	804.9	1139.1	1797.6	2838.9	3820.6	3865.6	3644.0	3067.0	2238.2	1499.2
75°	248.7	256.5	444.8	939.7	1943.7	2970.7	2981.0	2858.5	2177.8	1231.1	624.4
77.5°	94.8	92.5	148.1	346.2	982.7	1870.6	1933.7	1786.3	1142.8	435.3	144.1
80°	51.0	51.3	76.9	143.3	420.4	961.3	1014.6	865.7	406.1	135.8	33.2
82.5°	22.1	23.1	43.2	75.9	193.1	354.5	381.2	317.3	155.1	91.3	12.3
85°	4.8	5.3	20.9	41.2	78.7	99.6	104.4	102.8	98.8	70.9	4.8
87.5°	0.0	0.0	9.3	14.8	19.9	22.6	19.9	25.9	54.6	47.8	2.5
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°	537.4	537.4	537.4	537.4	537.4	537.4	537.4	537.4	537.4	537.4	537.4
2.5°	537.9	533.3	525.5	517.0	511.0	504.7	499.6	497.4	494.9	493.1	495.4
5°	536.8	528.0	513.0	498.4	487.8	479.3	472.2	469.5	466.7	464.7	464.4
7.5°	545.7	533.3	510.2	488.8	472.5	460.9	451.4	447.3	444.1	442.6	441.3
10°	562.5	546.7	515.7	487.8	466.7	447.1	426.5	410.6	400.3	395.5	393.8
12.5°	584.4	564.5	526.3	493.1	462.4	424.7	380.9	343.2	318.8	310.8	306.0
15°	610.0	585.4	540.1	499.9	446.8	377.9	303.8	254.5	231.8	227.3	222.3
17.5°	634.7	607.5	556.7	501.1	412.6	302.0	222.5	189.1	180.3	183.3	184.1
20°	656.3	629.4	573.1	490.1	350.5	226.6	172.2	163.9	167.2	173.0	174.0
22.5°	678.2	650.5	588.1	460.9	271.1	172.0	155.1	157.2	160.4	166.2	167.2
25°	704.8	676.2	602.2	407.4	203.4	146.3	147.4	150.4	153.6	158.9	159.4
27.5°	735.5	708.6	611.5	337.7	150.9	134.5	137.8	142.3	145.6	150.6	151.6
30°	776.2	751.3	614.5	265.5	126.5	124.0	125.5	131.0	135.8	140.3	141.1
32.5°	814.5	793.6	604.5	200.4	117.2	114.2	114.2	117.4	123.0	127.2	128.2
35°	849.7	836.1	572.3	146.6	110.1	105.1	102.6	102.6	106.1	109.6	110.6
37.5°	896.2	895.7	520.3	116.9	103.3	97.6	92.3	88.3	87.0	87.8	88.3
40°	975.9	976.6	452.4	104.9	97.6	89.8	81.7	74.4	67.6	65.4	65.1
42.5°	1100.4	1089.0	381.2	99.1	92.5	81.7	69.7	59.8	49.3	46.0	45.8
45°	1298.0	1230.9	305.8	93.8	87.3	72.7	57.6	44.3	35.7	33.2	33.2
47.5°	1585.9	1417.2	236.9	88.0	80.2	62.4	43.5	31.9	26.2	24.9	25.1
50°	1883.6	1599.7	181.5	80.7	71.7	51.5	32.2	23.1	19.9	19.9	20.1
52.5°	2147.7	1733.5	141.6	72.9	61.1	40.5	24.4	18.1	16.6	16.3	16.6
55°	2394.8	1819.8	108.4	63.9	48.5	30.2	18.6	14.8	13.8	13.3	13.1
57.5°	2633.2	1862.5	81.2	51.5	35.2	21.9	14.8	12.6	11.6	10.8	10.6
60°	2791.9	1827.8	55.8	38.0	24.4	15.8	12.3	10.8	9.6	8.8	8.5
62.5°	2881.4	1733.0	36.0	27.4	17.4	11.8	9.8	9.1	7.3	6.5	6.5
65°	2845.2	1576.6	25.1	19.6	12.6	8.8	7.3	7.3	5.3	4.3	4.0
67.5°	2521.3	1331.9	19.1	14.6	9.1	6.5	5.5	6.3	3.3	2.0	2.0
69°	2169.3	1103.9	16.3	12.1	7.5	5.3	4.8	5.8	2.3	1.5	1.3
70°	1885.4	952.2	14.8	10.6	6.3	4.5	4.3	5.5	2.3	1.3	1.0
72.5°	1128.0	531.1	11.3	7.5	4.0	3.5	3.5	6.3	2.3	1.3	1.0
75°	455.9	187.1	8.3	5.3	3.0	3.0	4.3	8.0	2.0	1.0	0.8
77.5°	103.3	41.0	4.8	3.3	2.0	3.0	5.0	6.3	1.3	0.5	0.0
80°	25.1	10.1	3.0	2.0	1.3	2.3	3.8	3.5	0.3	0.0	0.0
82.5°	8.3	3.5	1.3	1.0	0.3	0.8	1.8	1.0	0.0	0.0	0.0
85°	3.5	2.0	0.5	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0
87.5°	2.3	0.8	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)