

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: P382792

Luminaire Tested: **GAN-SA1C-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382792
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-SA1C-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA 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: 5000.6 lumens
Efficiency: N/A
Efficacy: 84.8 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

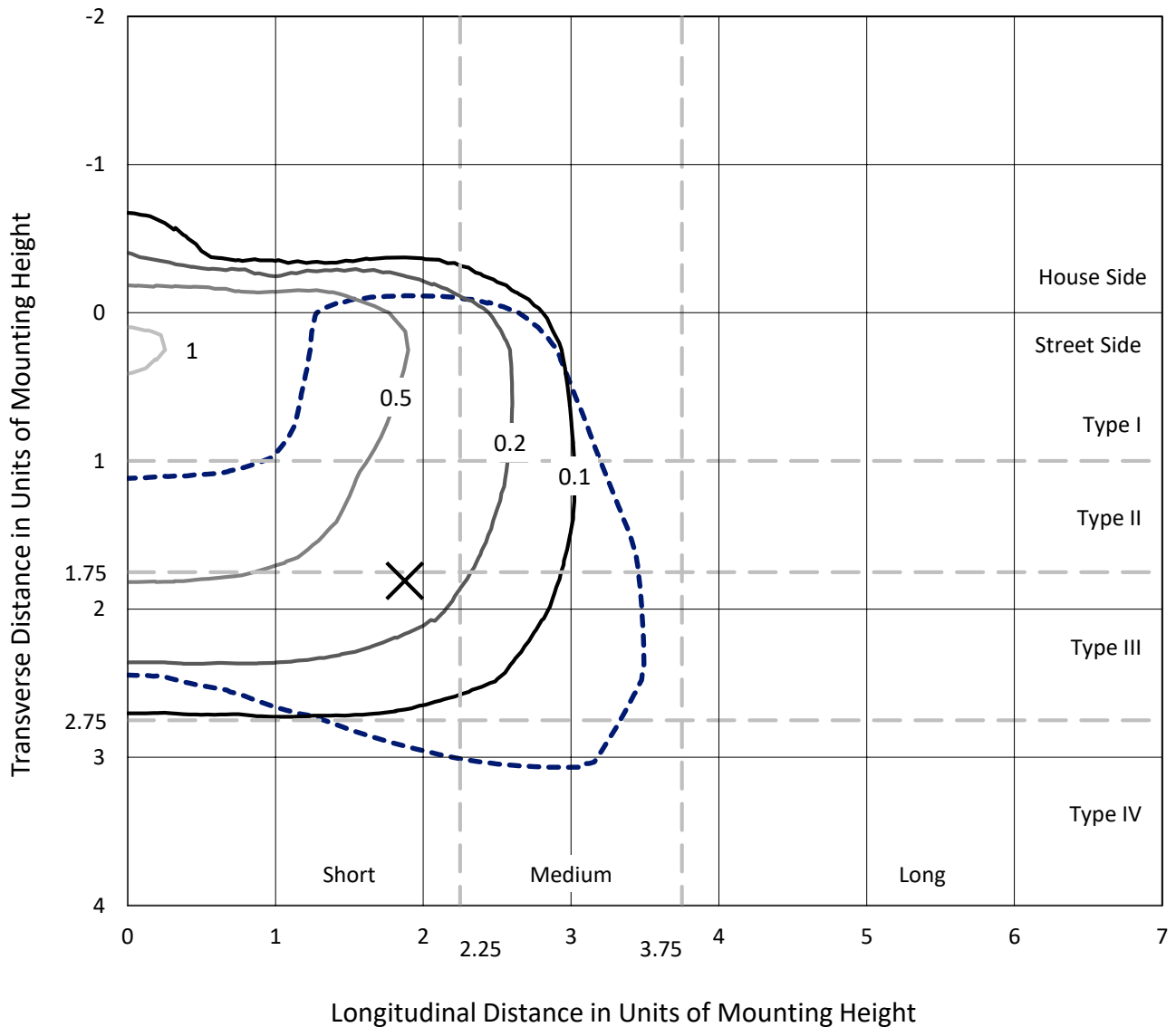
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

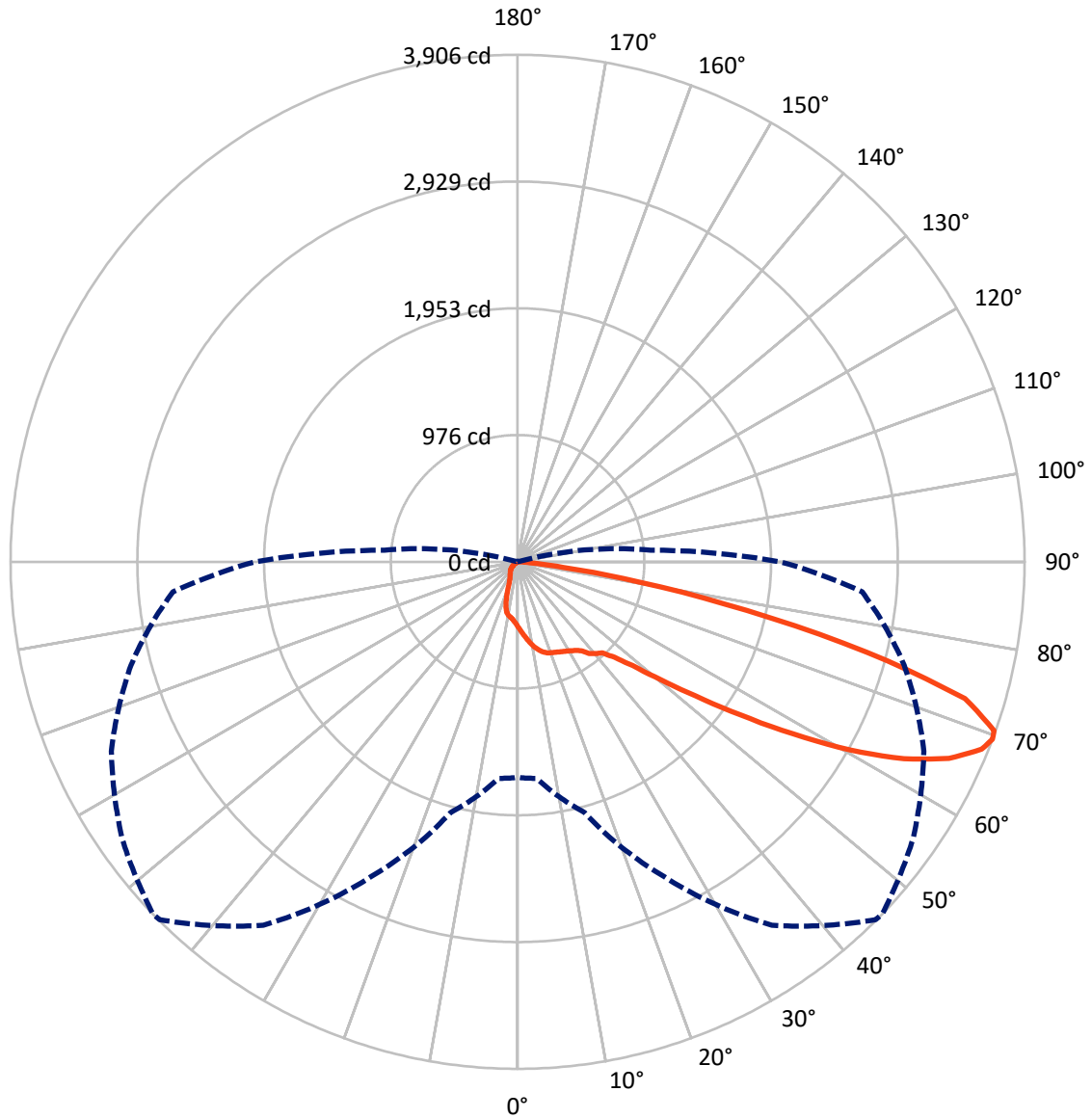
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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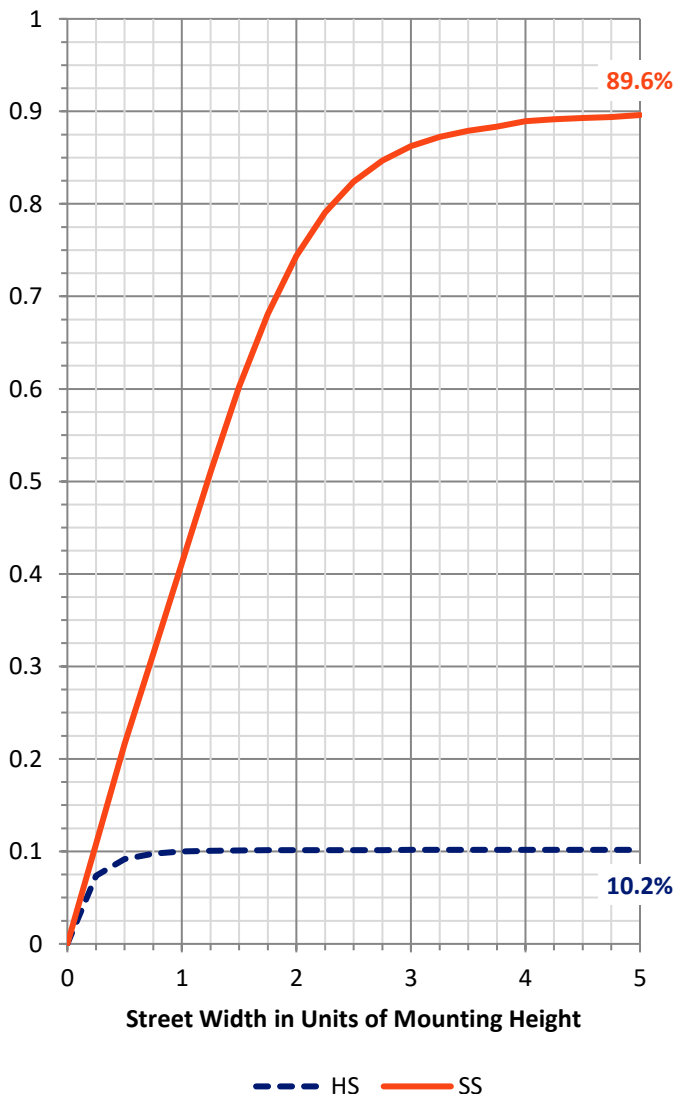
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	513.2	0.0	513.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	4487.3	0.0	4487.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	5000.6	0.0	5000.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.9	1.0
10°-20°	151.3	3.0
20°-30°	237.9	4.8
30°-40°	341.2	6.8
40°-50°	589.7	11.8
50°-60°	1165.1	23.3
60°-70°	1628.3	32.6
70°-80°	786.6	15.7
80°-90°	50.6	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°	5000.6	100.0
0°-180°	5000.6	100.0

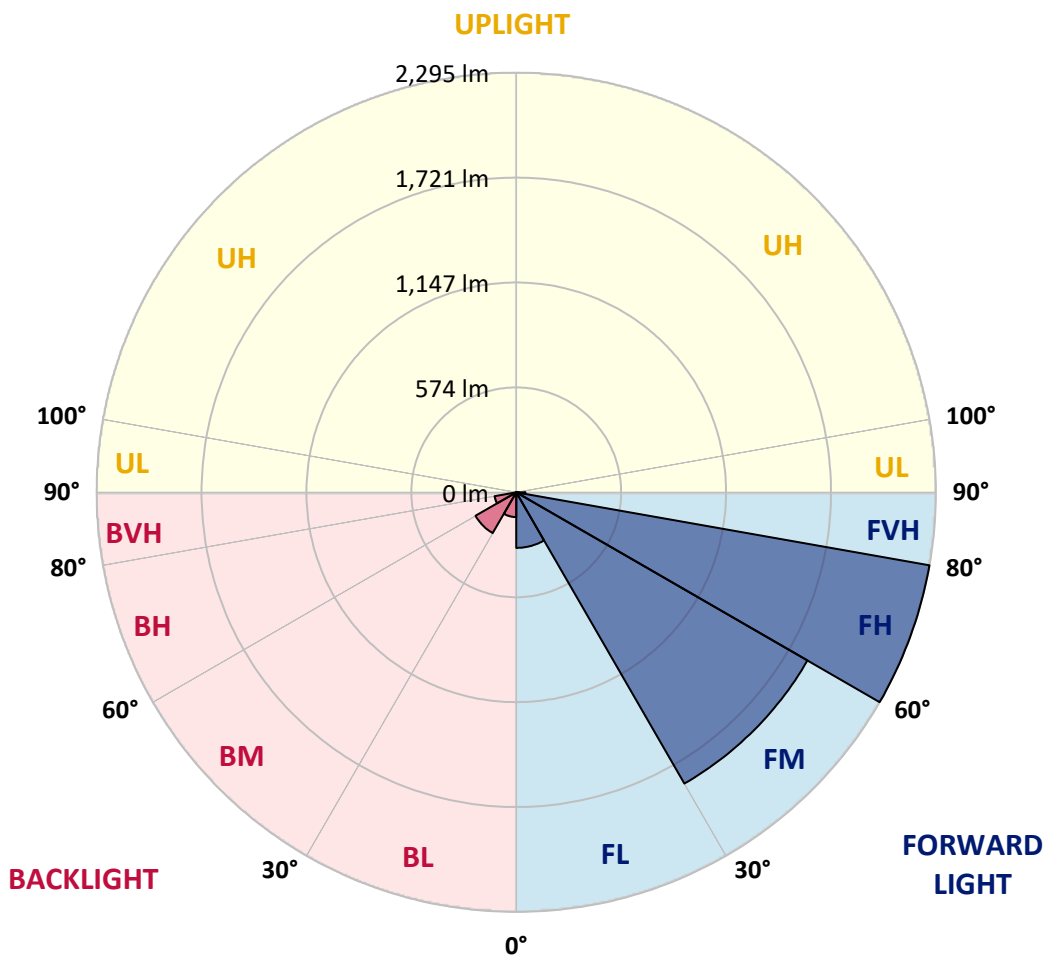


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	303.8	6.1			
FM (30°-60°)	1838.8	36.8			
FH (60°-80°)	2294.6	45.9			G2/5000
FVH (80°-90°)	50.1	1.0			G1/100
BL (0°-30°)	135.3	2.7	B1/500		
BM (30°-60°)	257.2	5.1	B1/1000		
BH (60°-80°)	120.3	2.4	B1/500		G1/500
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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1
2.5°	556.6	555.9	552.6	551.2	543.3	538.5	536.7	530.8	522.4	513.9	504.5
5°	619.9	619.7	613.6	607.7	592.7	578.7	576.1	562.5	543.5	525.7	507.9
7.5°	684.6	681.6	675.5	664.2	642.4	619.9	617.8	598.6	571.6	545.8	520.3
10°	739.5	737.6	729.6	712.5	686.9	661.4	658.8	635.1	604.7	573.0	540.4
12.5°	782.1	780.7	770.2	748.9	721.7	695.1	691.7	670.5	637.9	602.5	564.1
15°	808.2	807.5	794.6	771.9	745.1	722.1	719.1	700.5	670.3	633.3	589.9
17.5°	814.3	814.5	801.1	778.1	756.1	739.7	737.4	723.3	698.0	661.2	615.7
20°	800.7	803.5	791.5	771.6	758.0	749.3	747.5	739.0	717.7	683.0	636.3
22.5°	781.5	782.9	774.7	761.3	755.7	757.3	756.3	751.7	733.6	701.7	656.7
25°	769.7	769.7	764.8	753.5	757.3	767.4	767.6	766.7	752.4	724.7	681.6
27.5°	769.3	767.9	762.2	753.8	764.1	779.6	780.5	786.9	777.9	752.6	712.5
30°	788.0	786.4	774.4	763.4	776.5	793.2	795.5	809.3	804.9	782.9	747.0
32.5°	831.9	826.0	799.5	781.5	791.3	811.2	814.3	836.3	843.3	820.1	780.3
35°	891.9	873.3	835.1	815.7	816.6	837.5	840.3	872.7	893.5	854.3	806.1
37.5°	974.7	965.5	903.3	851.3	855.5	887.2	895.4	930.5	924.7	873.1	835.4
40°	1156.1	1141.8	1075.7	951.2	892.8	927.5	930.1	948.9	949.3	915.5	896.3
42.5°	1403.2	1397.4	1327.7	1132.4	966.2	954.5	959.1	990.8	1026.2	1005.1	1004.2
45°	1676.9	1673.8	1599.9	1373.0	1114.6	1042.9	1048.7	1091.1	1158.9	1163.6	1193.4
47.5°	1897.0	1895.6	1853.1	1641.5	1341.8	1192.7	1194.5	1239.6	1358.7	1417.5	1465.1
50°	2097.7	2104.5	2070.9	1931.9	1651.3	1427.4	1422.9	1452.9	1644.3	1740.6	1799.7
52.5°	2376.7	2386.3	2292.3	2202.9	1976.0	1718.6	1715.1	1746.5	1987.5	2059.7	2070.3
55°	2623.1	2606.7	2532.4	2506.6	2372.0	2078.2	2077.3	2104.9	2319.5	2350.2	2369.7
57.5°	2731.9	2725.6	2761.5	2820.5	2786.7	2503.3	2501.2	2480.1	2616.5	2619.8	2679.6
60°	2800.6	2808.3	2918.3	3100.5	3184.7	2960.7	2947.1	2818.4	2900.3	2893.0	2957.0
62.5°	2749.0	2764.3	2962.1	3265.7	3482.4	3360.0	3340.8	3128.3	3142.7	3117.6	3177.1
65°	2475.2	2498.9	2823.1	3234.6	3630.1	3672.1	3652.6	3402.0	3335.1	3293.9	3260.9
67.5°	2009.8	2023.9	2362.4	2963.3	3563.5	3858.2	3854.3	3641.8	3480.5	3264.1	3007.6
69°	1660.9	1674.7	2000.6	2677.7	3417.0	3898.1	3905.8	3718.7	3452.9	3083.1	2664.9
70°	1406.7	1421.5	1725.1	2432.9	3247.0	3879.6	3893.4	3711.5	3373.6	2873.5	2364.1
72.5°	737.9	750.5	1062.1	1676.1	2647.0	3562.3	3604.3	3397.7	2859.7	2086.9	1397.9
75°	231.9	239.1	414.7	876.2	1812.3	2769.9	2779.5	2665.3	2030.7	1147.9	582.1
77.5°	88.4	86.3	138.1	322.9	916.3	1744.1	1803.0	1665.6	1065.6	405.9	134.3
80°	47.6	47.8	71.7	133.7	392.0	896.3	946.1	807.3	378.7	126.6	30.9
82.5°	20.6	21.6	40.3	70.8	180.1	330.6	355.5	295.9	144.7	85.1	11.5
85°	4.5	4.9	19.5	38.5	73.4	92.9	97.3	95.9	92.1	66.1	4.5
87.5°	0.0	0.0	8.7	13.8	18.5	21.1	18.5	24.1	50.9	44.5	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°	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1
2.5°	501.5	497.3	490.0	482.1	476.4	470.5	465.9	463.7	461.4	459.8	461.9
5°	500.6	492.3	478.3	464.7	454.9	446.9	440.3	437.7	435.1	433.3	433.1
7.5°	508.8	497.3	475.7	455.8	440.5	429.7	420.9	417.1	414.1	412.7	411.5
10°	524.5	509.7	480.9	454.9	435.1	416.9	397.7	382.9	373.3	368.8	367.1
12.5°	544.9	526.3	490.7	459.8	431.2	396.0	355.2	320.1	297.3	289.8	285.3
15°	568.8	545.8	503.6	466.1	416.6	352.4	283.2	237.3	216.2	211.9	207.3
17.5°	591.8	566.5	519.1	467.3	384.7	281.6	207.5	176.3	168.1	170.9	171.6
20°	611.9	586.9	534.3	456.9	326.9	211.3	160.6	152.9	155.9	161.3	162.3
22.5°	632.3	606.5	548.4	429.7	252.7	160.4	144.7	146.5	149.6	155.0	155.9
25°	657.2	630.5	561.5	379.8	189.7	136.5	137.4	140.2	143.3	148.2	148.7
27.5°	685.8	660.7	570.2	314.9	140.7	125.5	128.5	132.7	135.7	140.5	141.4
30°	723.8	700.5	573.0	247.6	117.9	115.6	117.0	122.1	126.6	130.8	131.5
32.5°	759.4	739.9	563.7	186.9	109.3	106.5	106.5	109.5	114.7	118.7	119.6
35°	792.2	779.6	533.6	136.7	102.7	98.0	95.7	95.7	98.9	102.2	103.1
37.5°	835.6	835.1	485.1	109.0	96.3	91.0	86.1	82.3	81.1	81.8	82.3
40°	909.9	910.6	421.8	97.8	91.0	83.7	76.2	69.4	63.1	60.9	60.7
42.5°	1026.0	1015.5	355.5	92.4	86.3	76.2	64.9	55.8	45.9	42.9	42.7
45°	1210.3	1147.7	285.1	87.5	81.3	67.7	53.7	41.3	33.3	30.9	30.9
47.5°	1478.7	1321.4	220.9	82.1	74.8	58.1	40.5	29.8	24.4	23.2	23.5
50°	1756.3	1491.6	169.3	75.3	66.8	48.1	30.0	21.6	18.5	18.5	18.7
52.5°	2002.5	1616.3	132.0	68.0	57.0	37.7	22.7	16.9	15.5	15.3	15.5
55°	2233.0	1696.8	101.1	59.5	45.3	28.1	17.3	13.8	12.9	12.4	12.2
57.5°	2455.3	1736.6	75.7	48.1	32.8	20.4	13.8	11.7	10.8	10.1	9.9
60°	2603.2	1704.3	52.1	35.4	22.7	14.8	11.5	10.1	8.9	8.2	8.0
62.5°	2686.7	1615.9	33.5	25.5	16.2	11.0	9.1	8.5	6.8	6.1	6.1
65°	2652.9	1470.1	23.5	18.3	11.7	8.2	6.8	6.8	4.9	4.0	3.7
67.5°	2350.9	1241.9	17.8	13.6	8.5	6.1	5.1	5.9	3.1	1.9	1.9
69°	2022.7	1029.3	15.3	11.3	7.1	4.9	4.5	5.4	2.1	1.4	1.2
70°	1757.9	887.9	13.8	9.9	5.9	4.2	4.0	5.1	2.1	1.2	0.9
72.5°	1051.8	495.2	10.5	7.1	3.7	3.3	3.3	5.9	2.1	1.2	0.9
75°	425.1	174.5	7.7	4.9	2.8	2.8	4.0	7.5	1.9	0.9	0.7
77.5°	96.3	38.2	4.5	3.1	1.9	2.8	4.7	5.9	1.2	0.5	0.0
80°	23.5	9.4	2.8	1.9	1.2	2.1	3.5	3.3	0.3	0.0	0.0
82.5°	7.7	3.3	1.2	0.9	0.3	0.7	1.7	0.9	0.0	0.0	0.0
85°	3.3	1.9	0.5	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0
87.5°	2.1	0.7	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)