

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: P382762

Luminaire Tested: **GAN-SA1B-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3958.1 lumens
Efficiency: N/A
Efficacy: 90.0 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

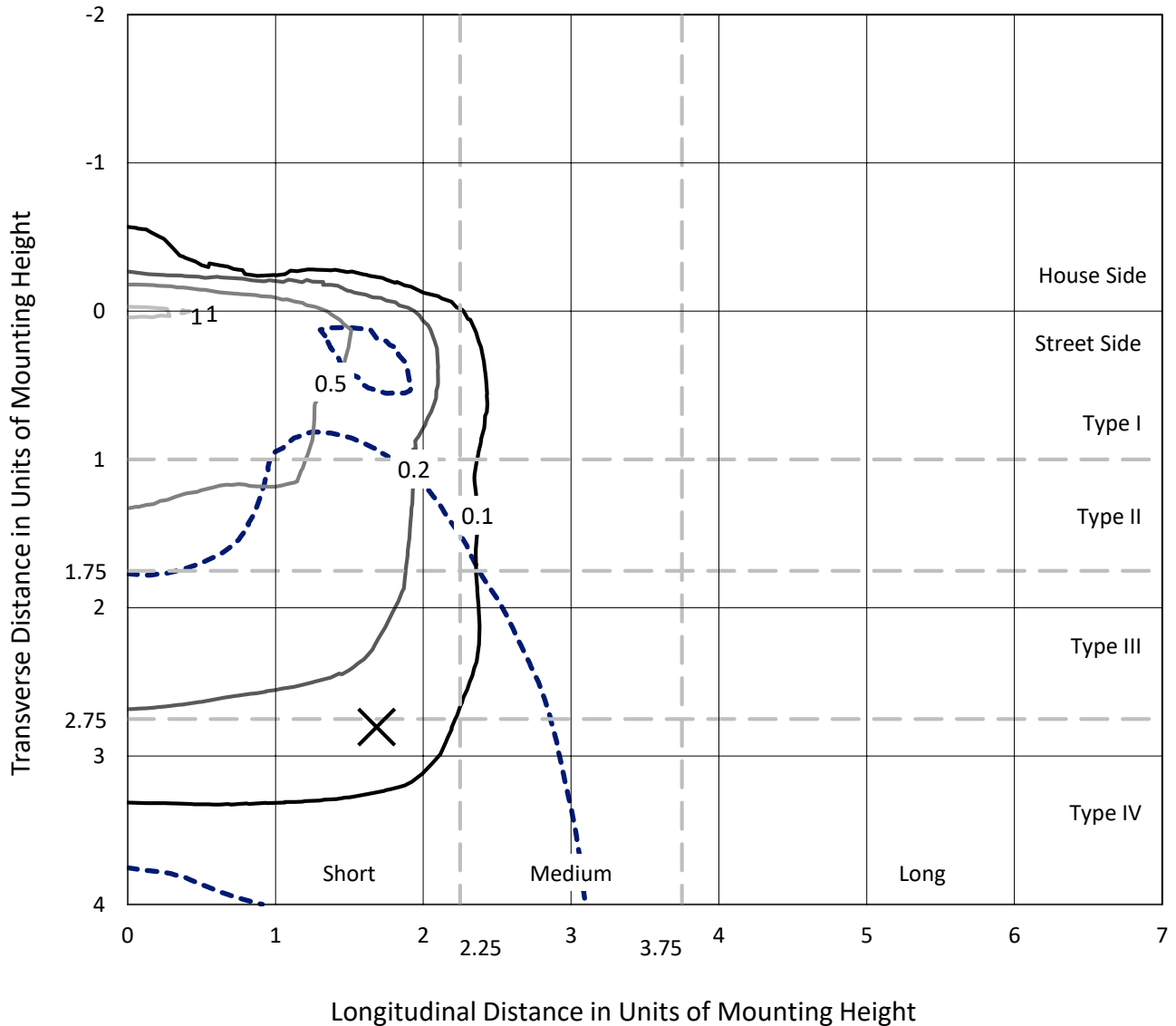
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

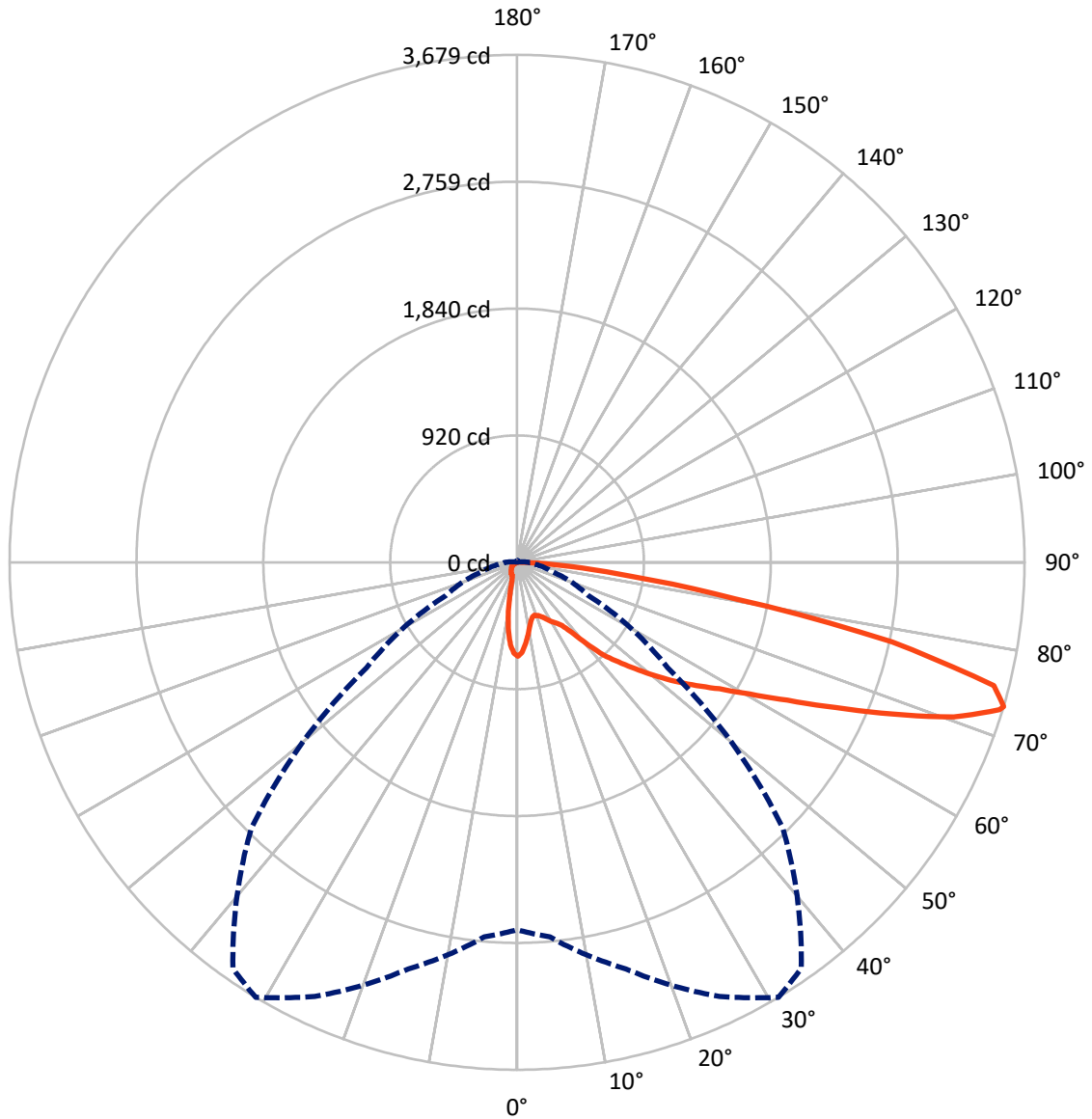
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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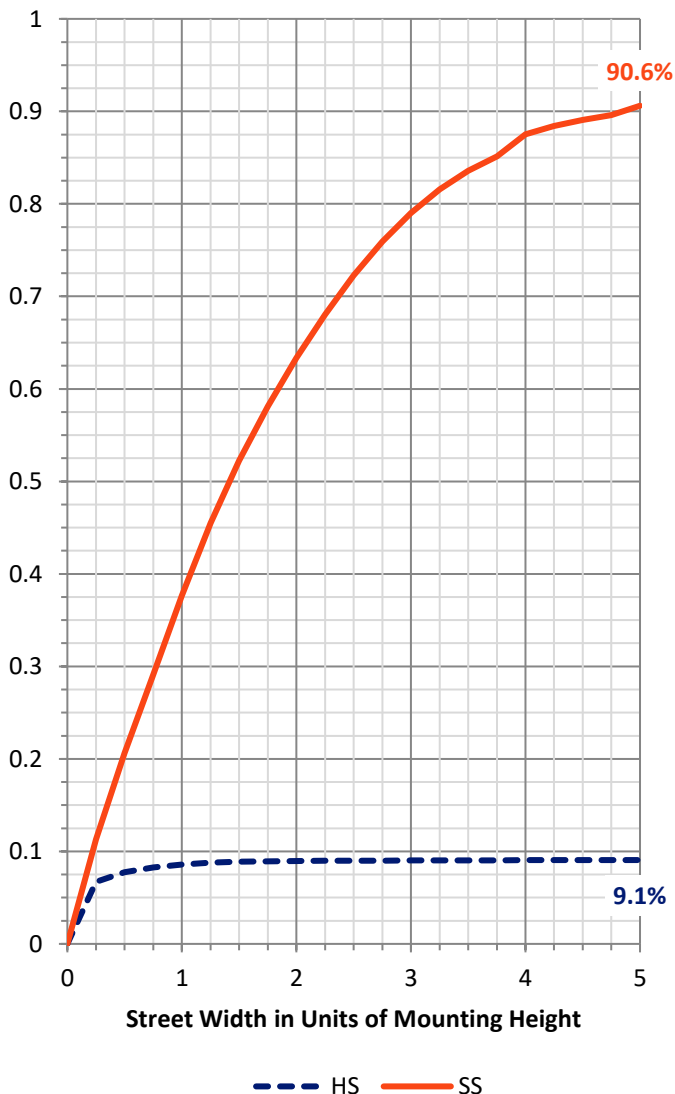
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	360.8	0.0	360.8
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	3597.3	0.0	3597.3
	% Fixture	90.9	0.0	90.9
Total	Lumens	3958.1	0.0	3958.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.5	1.4
10°-20°	122.6	3.1
20°-30°	183.7	4.6
30°-40°	292.3	7.4
40°-50°	521.9	13.2
50°-60°	809.8	20.5
60°-70°	1076.6	27.2
70°-80°	809.8	20.5
80°-90°	85.1	2.1
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°	3958.1	100.0
0°-180°	3958.1	100.0

Coefficient of Utilization



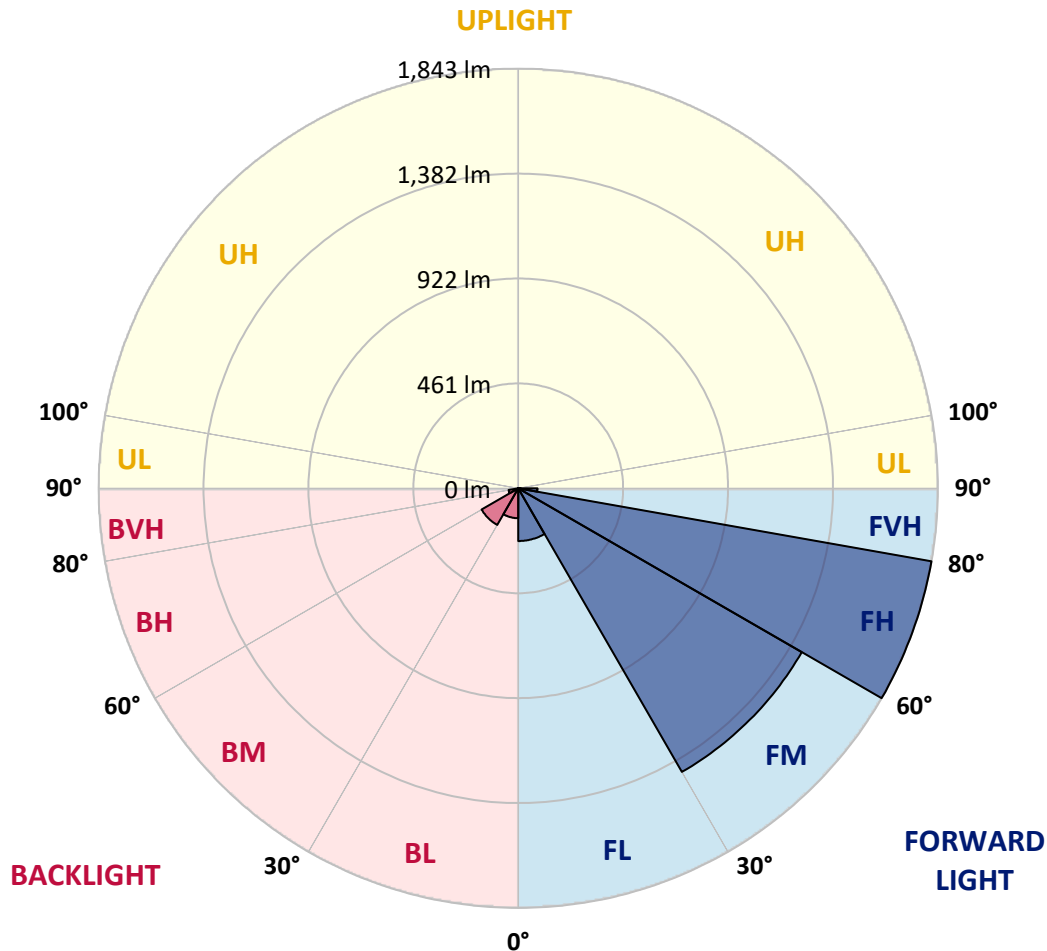
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	231.6	5.9			
FM (30°-60°)	1438.2	36.3			
FH (60°-80°)	1843.2	46.6			G2/5000
FVH (80°-90°)	84.4	2.1			G1/100
BL (0°-30°)	131.2	3.3	B1/500		
BM (30°-60°)	185.7	4.7	B0/220		
BH (60°-80°)	43.2	1.1	B0/110		G0/110
BVH (80°-90°)	0.7	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°	31°	35°	45°	55°	65°	75°	85°
0°	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
2.5°	645.4	648.1	651.0	651.5	656.4	656.6	663.5	668.9	674.1	679.1	680.8
5°	579.1	583.6	588.8	594.0	604.3	608.4	625.4	642.9	659.5	675.4	683.1
7.5°	508.4	513.5	520.8	533.8	545.2	553.2	580.1	611.1	642.1	671.4	688.1
10°	444.0	448.5	456.4	470.1	487.7	498.6	534.8	577.7	623.3	667.6	695.8
12.5°	402.9	405.4	409.7	424.4	440.2	452.5	495.0	548.3	607.8	667.5	708.0
15°	395.3	396.1	392.6	399.2	411.6	423.4	466.6	524.5	596.0	670.5	723.8
17.5°	407.4	406.9	395.3	394.5	404.4	414.1	452.6	508.1	587.6	677.7	744.3
20°	425.5	424.1	404.0	400.4	410.8	419.9	451.7	501.8	584.5	689.7	769.4
22.5°	449.8	447.4	415.8	411.9	423.2	432.7	463.7	507.9	587.2	705.8	798.3
25°	479.7	476.3	436.2	432.0	443.3	452.8	485.1	525.1	595.4	725.4	835.2
27.5°	513.7	508.6	468.8	457.7	470.6	480.6	513.8	551.5	608.2	746.1	880.3
30°	545.6	539.0	503.0	484.8	500.7	511.7	544.9	582.8	628.7	778.0	942.1
32.5°	577.7	570.4	533.6	511.9	526.2	538.2	576.8	626.0	667.3	826.8	1024.2
35°	651.8	644.0	598.9	563.0	562.8	569.6	621.5	685.1	718.2	894.8	1122.2
37.5°	776.3	771.9	728.8	660.8	642.7	635.1	682.5	755.6	791.4	988.4	1232.8
40°	912.6	908.8	860.6	799.0	771.2	752.7	770.1	853.8	894.8	1102.7	1345.7
42.5°	1066.6	1048.3	962.3	943.8	919.1	904.9	889.3	974.9	1021.9	1227.0	1457.7
45°	1206.4	1175.5	1063.9	1036.1	1030.4	1033.9	1042.6	1137.5	1164.8	1374.8	1569.3
47.5°	1289.7	1265.3	1179.7	1153.1	1151.5	1174.5	1240.4	1321.3	1307.2	1503.6	1667.5
50°	1369.0	1346.9	1275.8	1282.4	1289.5	1320.9	1464.9	1510.4	1437.2	1620.4	1757.6
52.5°	1433.1	1399.4	1362.2	1399.2	1434.5	1485.0	1696.5	1680.0	1529.3	1713.4	1834.6
55°	1470.1	1454.8	1472.8	1509.9	1576.3	1658.3	1915.2	1821.3	1596.8	1798.2	1885.9
57.5°	1605.7	1575.6	1611.5	1643.6	1730.0	1844.8	2102.5	1926.4	1645.4	1850.7	1897.7
60°	1769.8	1745.5	1766.6	1820.1	1936.7	2071.7	2277.5	2012.2	1670.7	1884.4	1867.2
62.5°	2030.8	1998.8	1985.7	2045.6	2200.1	2347.5	2410.5	2071.7	1665.1	1869.5	1762.2
65°	2380.7	2347.5	2288.6	2342.8	2539.4	2643.5	2559.0	2084.2	1626.4	1748.8	1496.8
67.5°	2738.9	2714.9	2664.6	2756.0	2933.4	2966.9	2716.1	2053.7	1501.7	1418.0	1057.5
70°	2975.6	2965.4	2998.1	3200.3	3358.5	3348.8	2860.2	1889.3	1170.5	872.0	523.2
72.5°	2805.0	2854.2	3095.9	3462.6	3655.9	3576.9	2786.2	1450.7	669.0	335.5	151.3
73°	2663.6	2726.5	3051.9	3472.4	3679.3	3592.7	2724.0	1331.6	570.2	264.7	114.7
75°	1853.0	1930.3	2526.6	3234.1	3569.7	3423.1	2270.6	815.0	264.2	117.4	46.3
77.5°	899.7	956.8	1391.3	2336.7	2776.1	2674.5	1413.5	303.7	119.3	73.4	21.3
80°	335.8	373.5	603.9	1189.2	1604.3	1646.3	621.7	114.9	79.4	59.1	10.8
82.5°	87.9	98.0	222.7	530.3	822.2	860.6	196.0	57.9	58.1	48.6	6.6
85°	28.0	32.1	69.5	238.0	387.3	340.1	51.1	28.0	42.2	36.2	3.7
87.5°	3.4	4.5	22.1	56.0	85.4	47.4	7.9	8.3	18.0	20.1	2.1
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°	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
2.5°	682.5	681.6	681.8	676.8	673.4	666.9	660.1	657.0	653.7	652.4	653.7
5°	686.1	684.3	679.3	663.7	647.3	626.0	606.1	591.0	572.0	566.8	572.2
7.5°	691.5	687.9	673.2	641.6	605.0	564.4	518.7	485.3	458.0	440.4	446.9
10°	699.4	692.8	663.2	609.5	544.0	472.0	407.1	356.6	320.7	306.0	305.5
12.5°	712.7	700.3	650.8	567.7	469.5	373.5	288.4	233.6	204.6	185.8	185.4
15°	727.5	709.3	635.1	517.6	382.8	267.4	185.8	144.1	125.3	119.3	118.5
17.5°	745.5	719.5	614.7	455.7	291.9	177.2	121.3	109.3	108.4	107.9	107.9
20°	768.2	731.7	588.6	385.0	207.1	118.3	103.0	103.8	104.2	103.4	103.6
22.5°	794.5	744.1	557.4	309.1	140.0	98.9	98.6	99.6	100.0	99.6	99.8
25°	825.1	758.5	519.4	229.5	101.1	93.9	94.9	96.2	97.3	97.3	97.3
27.5°	863.1	775.9	473.8	160.2	87.4	88.7	91.4	93.9	95.3	95.7	95.7
30°	912.5	797.6	418.9	109.8	79.4	81.7	86.7	91.6	94.1	94.6	94.7
32.5°	974.9	822.0	355.4	81.1	72.7	74.3	79.8	87.9	92.8	93.5	93.5
35°	1046.3	850.3	287.0	70.7	67.8	68.4	72.7	82.0	90.5	92.6	92.8
37.5°	1124.6	878.2	218.3	66.0	63.7	63.7	66.8	74.8	84.9	91.4	92.2
40°	1197.6	895.0	153.1	62.4	60.1	60.1	62.8	68.6	78.1	87.9	90.1
42.5°	1264.9	900.8	106.6	58.9	56.5	57.1	59.4	64.1	71.3	81.1	83.1
45°	1334.3	899.9	77.7	54.8	53.1	54.8	56.5	60.1	65.3	70.9	71.3
47.5°	1386.6	891.8	61.6	51.0	49.7	52.1	53.7	56.0	58.9	58.5	58.5
50°	1435.6	872.0	49.6	45.7	46.5	49.2	49.9	50.8	51.0	47.2	46.9
52.5°	1472.8	841.2	39.7	40.1	43.2	45.9	45.1	44.0	42.0	37.5	36.8
55°	1485.2	781.9	31.2	33.2	38.4	41.8	38.9	36.4	32.7	29.1	28.3
57.5°	1462.7	705.4	25.3	25.8	32.3	35.2	32.0	29.1	25.0	21.9	21.3
60°	1415.1	620.4	21.0	19.4	25.0	27.5	25.3	22.5	18.8	16.5	16.3
62.5°	1320.6	529.8	17.2	15.1	19.0	21.1	19.7	17.6	14.5	12.9	12.8
65°	1121.9	423.8	14.0	12.2	14.7	16.5	15.3	13.8	11.5	10.2	10.1
67.5°	783.1	286.5	11.5	10.1	11.6	12.9	12.0	11.3	9.1	8.9	9.1
70°	377.6	138.1	9.5	8.1	9.1	10.1	9.7	9.1	8.8	10.1	11.6
72.5°	108.2	46.3	7.5	6.8	7.4	7.9	8.3	8.1	9.5	12.2	14.2
73°	83.3	37.4	7.2	6.4	7.0	7.7	8.1	7.9	9.7	12.4	14.2
75°	35.7	18.0	5.4	5.2	5.8	6.8	7.2	7.2	9.7	12.6	13.6
77.5°	16.1	9.7	3.4	4.1	5.0	5.4	6.0	6.0	7.7	9.7	9.7
80°	9.1	5.2	2.7	3.1	3.7	3.7	3.7	3.3	3.4	3.9	4.3
82.5°	5.8	3.4	2.1	2.5	2.3	2.0	1.6	1.6	1.4	1.6	2.0
85°	3.3	2.0	2.0	1.6	0.9	0.7	0.9	0.7	0.2	0.0	0.2
87.5°	2.0	1.1	0.6	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)