

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: P382758

Luminaire Tested: **GAN-SA1B-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382758
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-SA1B-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA 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: 4062.5 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

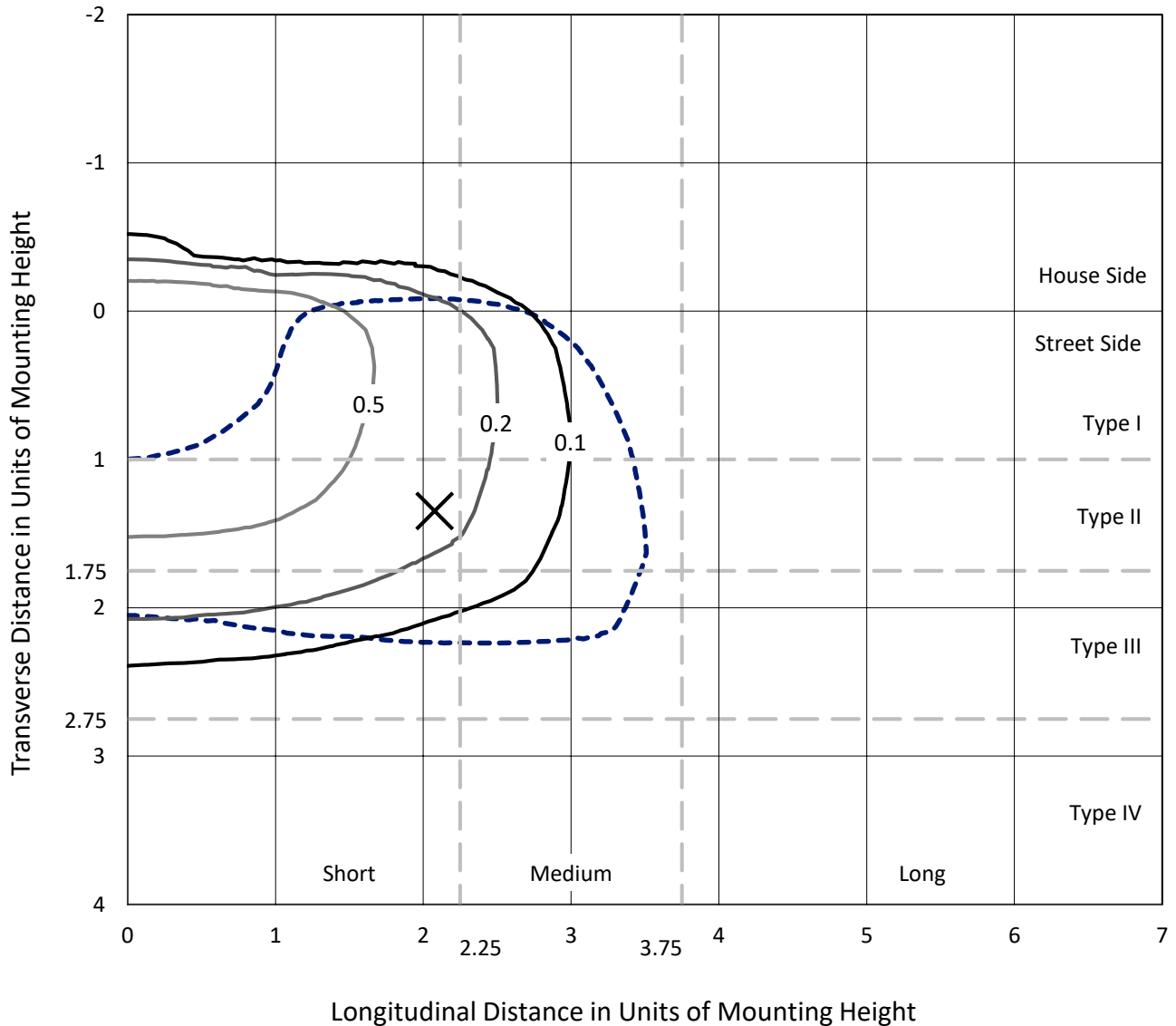
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

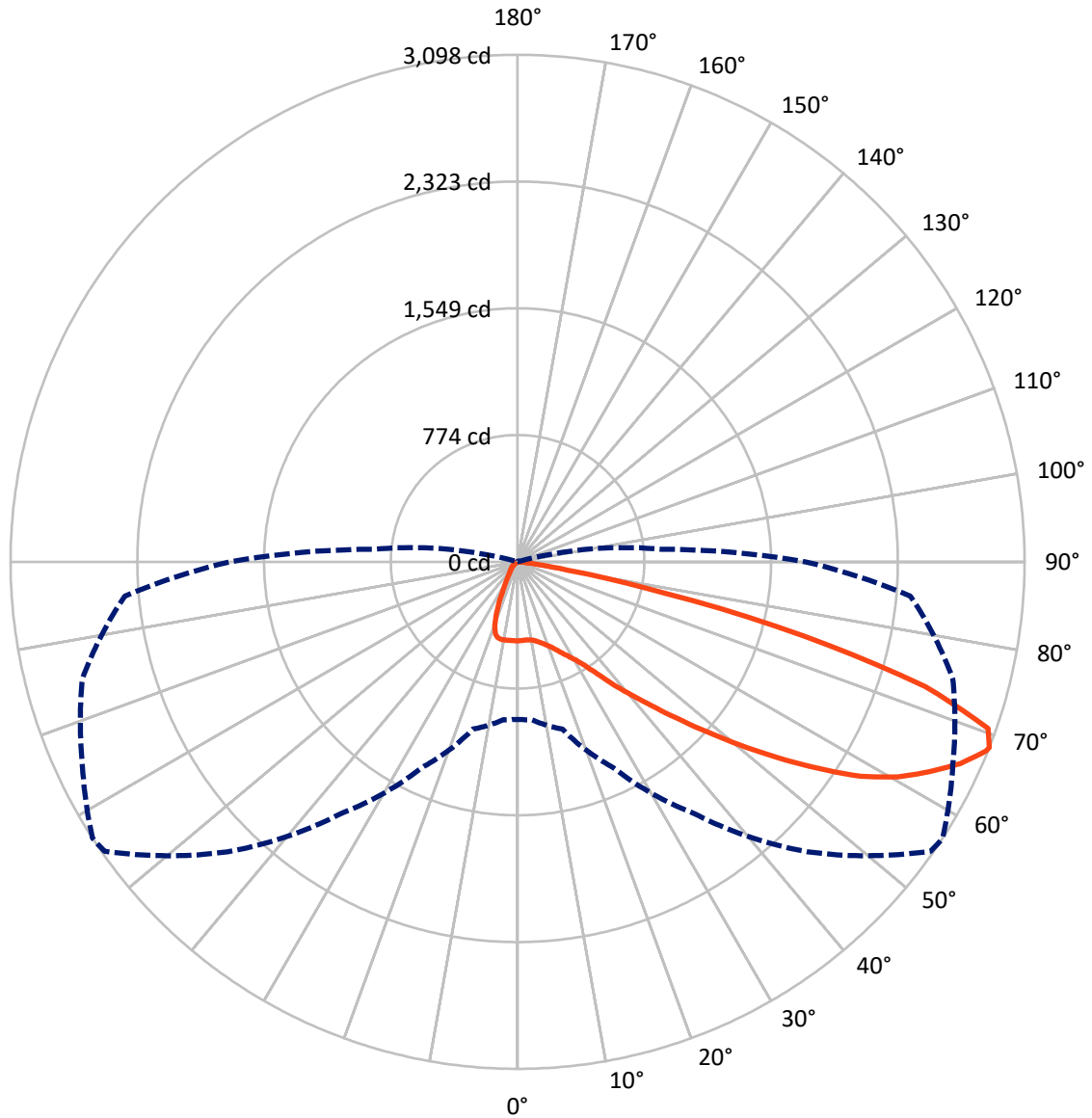
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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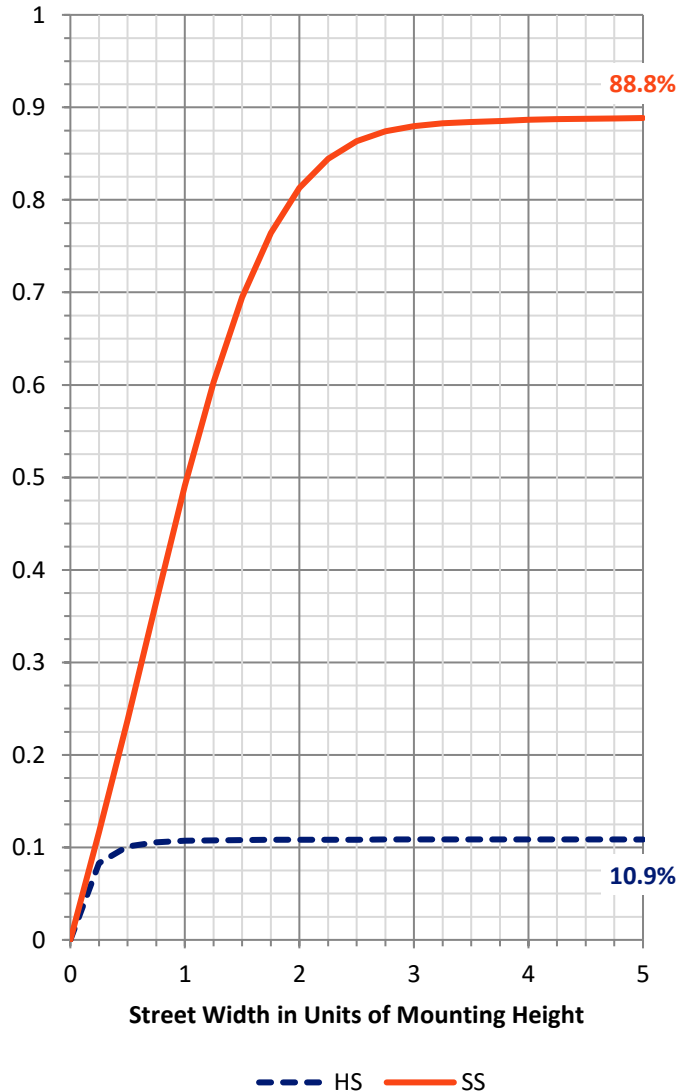
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	445.5	0.0	445.5
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	3617.0	0.0	3617.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	4062.5	0.0	4062.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.2	1.1
10°-20°	125.2	3.1
20°-30°	216.0	5.3
30°-40°	372.7	9.2
40°-50°	637.6	15.7
50°-60°	1020.1	25.1
60°-70°	1178.6	29.0
70°-80°	450.3	11.1
80°-90°	16.9	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°	4062.5	100.0
0°-180°	4062.5	100.0

Coefficient of Utilization



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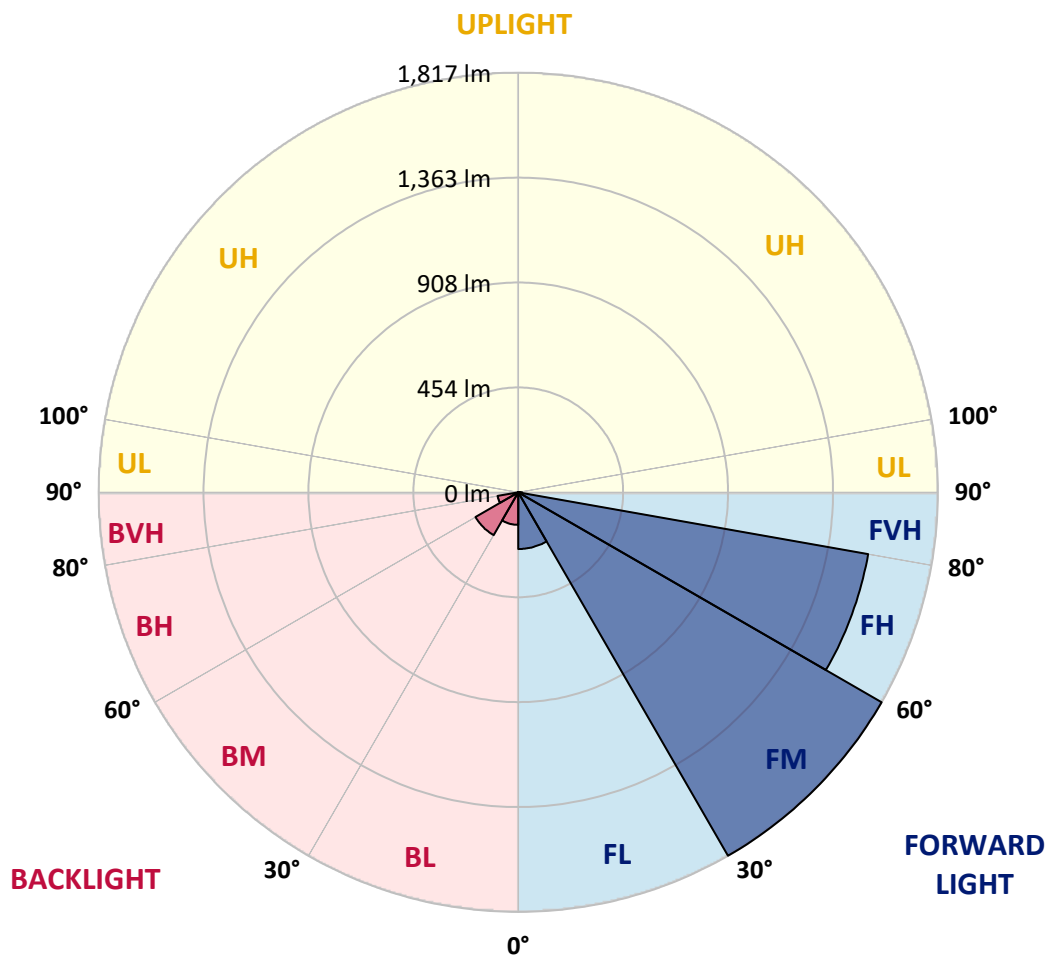
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	245.5	6.0			
FM (30°-60°)	1816.7	44.7			
FH (60°-80°)	1538.2	37.9			G1/1800
FVH (80°-90°)	16.6	0.4			G1/100
BL (0°-30°)	140.8	3.5	B1/500		
BM (30°-60°)	213.7	5.3	B0/220		
BH (60°-80°)	90.7	2.2	B0/110		G0/110
BVH (80°-90°)	0.3	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7
2.5°	471.4	473.5	475.1	476.0	477.1	479.7	480.4	481.6	482.2	482.2	483.5
5°	452.7	455.1	458.3	461.0	466.4	473.3	478.3	480.2	483.7	486.7	488.5
7.5°	435.5	438.2	442.0	448.4	457.6	468.7	479.1	481.8	488.5	495.0	498.3
10°	424.3	426.5	431.4	440.4	452.5	468.1	482.7	486.0	497.5	508.4	514.6
12.5°	420.5	422.5	427.6	437.7	452.7	471.0	491.2	496.0	512.9	528.8	537.5
15°	426.1	426.5	432.1	441.6	456.5	478.2	505.2	511.0	532.3	553.1	563.8
17.5°	447.6	445.8	448.7	452.9	464.7	487.6	520.0	528.7	557.1	581.5	591.6
20°	501.4	501.4	494.8	483.3	483.5	502.1	540.0	549.8	584.5	612.8	622.0
22.5°	593.4	591.6	578.6	550.4	524.4	527.3	564.3	577.1	617.6	647.7	650.8
25°	704.1	701.9	681.7	641.9	597.0	568.1	597.4	612.0	656.9	683.7	677.3
27.5°	821.2	819.5	799.5	750.1	686.2	633.0	636.8	650.6	697.1	723.4	703.2
30°	934.7	935.3	915.5	864.8	792.4	715.7	686.7	694.8	736.1	762.8	734.0
32.5°	1042.7	1043.4	1026.4	969.6	902.1	811.9	755.9	753.8	781.5	807.7	774.7
35°	1138.9	1140.9	1129.1	1085.2	1013.5	919.2	845.6	840.6	845.8	875.6	837.2
37.5°	1231.7	1232.8	1224.1	1187.0	1127.0	1036.9	958.9	951.9	940.7	963.5	919.5
40°	1333.3	1330.4	1320.3	1286.7	1235.1	1166.9	1080.7	1068.4	1049.0	1069.4	1027.9
42.5°	1427.8	1424.5	1426.3	1388.3	1344.9	1300.6	1222.7	1201.5	1190.2	1213.6	1160.8
45°	1546.0	1544.2	1550.0	1516.9	1481.8	1449.8	1385.4	1362.3	1357.4	1384.8	1321.6
47.5°	1662.5	1666.8	1684.6	1670.6	1656.4	1628.2	1557.6	1547.3	1550.4	1583.6	1491.2
50°	1759.8	1764.7	1813.7	1829.8	1850.4	1833.9	1763.2	1756.9	1769.0	1798.9	1673.7
52.5°	1830.0	1840.3	1901.1	1975.4	2050.4	2061.5	1991.1	1985.3	2001.6	2006.2	1814.7
55°	1878.8	1887.9	1956.8	2092.8	2245.4	2293.4	2249.6	2227.3	2224.3	2178.7	1963.0
57.5°	1887.5	1886.6	1985.7	2168.7	2398.3	2522.2	2494.5	2472.6	2409.6	2338.2	2133.0
60°	1838.7	1844.3	1959.3	2195.0	2494.3	2695.2	2697.4	2669.0	2570.8	2493.2	2297.8
62.5°	1688.5	1711.2	1827.4	2126.1	2493.2	2765.0	2846.1	2824.4	2707.0	2620.2	2465.0
65°	1444.9	1453.0	1563.8	1889.8	2324.7	2735.8	2979.9	2971.9	2829.8	2743.5	2550.8
67.5°	1055.2	1037.7	1154.1	1488.1	1968.2	2565.6	3076.0	3086.1	2924.4	2768.8	2459.4
68°	962.9	968.2	1058.8	1388.8	1874.8	2505.5	3082.3	3097.9	2933.8	2752.4	2409.4
70°	574.0	584.0	664.8	956.2	1426.3	2165.3	3013.9	3049.5	2877.7	2581.9	2084.1
72.5°	146.5	158.5	234.9	428.0	814.6	1525.6	2544.2	2604.4	2498.6	2094.6	1406.9
75°	60.3	63.3	83.9	141.0	303.5	687.3	1677.0	1805.7	1732.1	1254.0	635.8
77.5°	41.6	43.8	53.9	78.2	131.3	233.0	822.2	915.2	824.4	428.0	138.7
80°	30.0	31.7	38.6	52.1	75.5	83.2	268.0	309.8	246.1	93.9	34.4
82.5°	17.9	19.2	28.8	37.1	45.9	39.8	66.7	75.6	71.3	46.7	15.4
85°	8.8	10.3	19.4	26.5	24.8	16.7	20.4	22.6	28.0	28.4	8.3
87.5°	0.6	1.1	11.4	15.9	6.9	3.8	6.0	7.3	10.0	14.1	3.4
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°	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7
2.5°	484.0	484.3	482.9	482.4	482.7	480.4	479.5	479.8	479.8	480.4	479.5
5°	488.9	488.9	486.5	483.5	481.8	477.3	474.4	473.7	473.1	472.8	472.0
7.5°	499.2	498.1	494.1	487.4	481.6	472.0	464.7	460.8	458.9	458.1	457.6
10°	516.0	513.8	507.1	494.7	481.4	464.3	448.4	437.0	427.6	423.8	421.4
12.5°	538.4	535.4	524.0	503.3	480.0	448.5	414.0	380.7	349.8	337.1	330.8
15°	564.3	560.0	542.1	510.6	472.2	413.0	337.9	279.7	236.9	220.7	213.8
17.5°	590.7	584.9	557.8	515.2	448.5	339.5	237.1	179.0	150.4	142.7	140.0
20°	617.2	608.8	571.5	511.7	395.2	244.7	156.4	130.8	122.6	120.3	119.5
22.5°	642.4	629.3	583.8	498.3	312.9	164.2	123.7	115.6	113.0	111.6	111.2
25°	664.3	646.0	594.5	456.8	221.5	124.1	111.4	108.7	105.3	102.7	102.9
27.5°	684.8	662.7	601.0	388.5	147.7	106.0	103.1	99.5	93.2	89.5	89.5
30°	709.6	685.0	605.9	298.9	108.7	93.7	91.5	85.9	77.2	72.4	72.4
32.5°	746.8	718.8	602.8	209.8	90.1	82.4	77.0	69.3	59.9	55.3	55.1
35°	803.9	771.0	580.9	137.5	79.6	71.6	63.0	53.6	45.4	41.5	41.3
37.5°	880.8	841.0	531.7	98.4	71.3	61.7	51.3	40.9	34.7	32.2	32.0
40°	980.5	922.2	461.4	79.7	63.6	52.1	39.6	31.7	27.5	25.5	25.7
42.5°	1100.2	1009.2	377.1	68.7	56.1	42.9	30.9	25.0	22.3	21.0	20.6
45°	1233.1	1095.1	288.7	61.3	48.6	34.6	24.2	19.7	17.7	16.9	16.9
47.5°	1379.2	1178.7	211.3	54.8	40.5	26.7	19.4	16.1	14.4	13.8	13.6
50°	1512.0	1236.7	152.3	47.8	33.3	21.1	15.7	13.4	12.3	11.6	11.6
52.5°	1622.6	1255.0	112.2	40.3	26.9	16.9	13.0	11.6	10.3	9.8	9.8
55°	1720.0	1247.4	83.4	33.3	21.7	13.8	11.2	9.8	8.8	8.3	8.3
57.5°	1813.4	1223.2	62.2	27.1	17.5	11.2	9.4	8.3	7.3	6.9	6.9
60°	1889.6	1182.9	46.3	21.9	14.1	9.0	7.9	6.7	6.0	5.4	5.4
62.5°	1951.5	1138.4	34.0	18.1	11.2	7.1	6.1	5.6	4.4	3.8	3.8
65°	1951.9	1064.4	25.5	15.0	8.7	5.6	4.6	4.4	2.9	2.3	2.1
67.5°	1810.6	917.7	19.6	12.9	6.7	4.2	3.4	3.6	1.5	0.9	0.7
68°	1759.4	880.4	18.4	12.7	6.3	4.0	3.3	3.6	1.3	0.7	0.6
70°	1483.3	700.3	14.8	12.3	5.6	3.1	2.7	3.6	1.1	0.6	0.4
72.5°	948.8	406.4	11.0	9.8	4.2	2.3	1.8	3.3	1.1	0.4	0.2
75°	403.8	126.0	7.5	6.9	2.5	1.8	1.1	2.1	0.7	0.2	0.0
77.5°	85.1	28.4	4.4	4.2	1.8	1.1	0.7	0.6	0.2	0.0	0.0
80°	21.9	8.3	2.3	2.1	0.9	0.6	0.4	0.0	0.0	0.0	0.0
82.5°	6.9	3.3	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.4	2.0	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.6	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)