

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: P268203

Luminaire Tested: **GAN-AF-01-LED-U-SL4-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268203
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-SL4-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2895.4 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 34
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: 28.75 FT

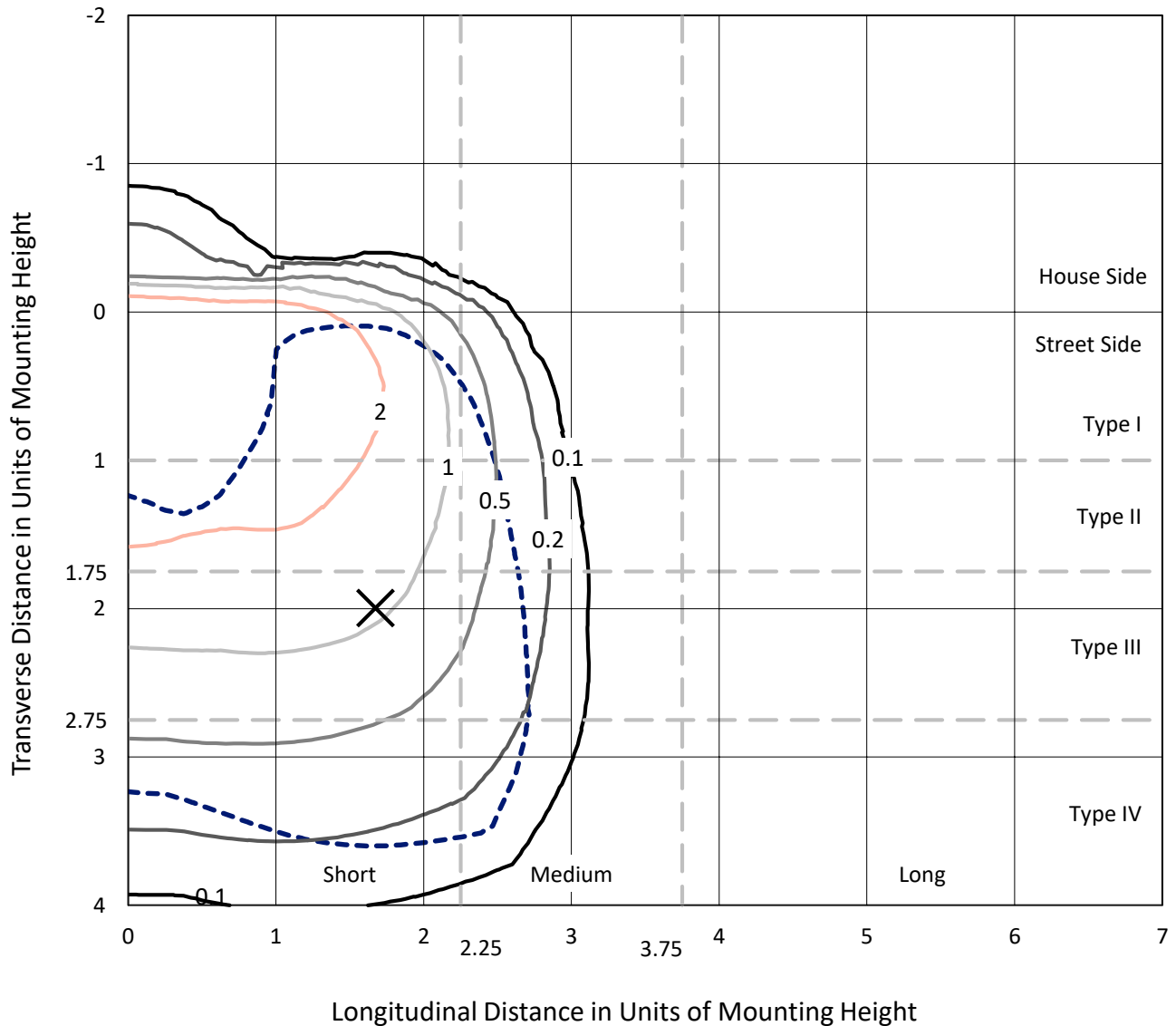


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

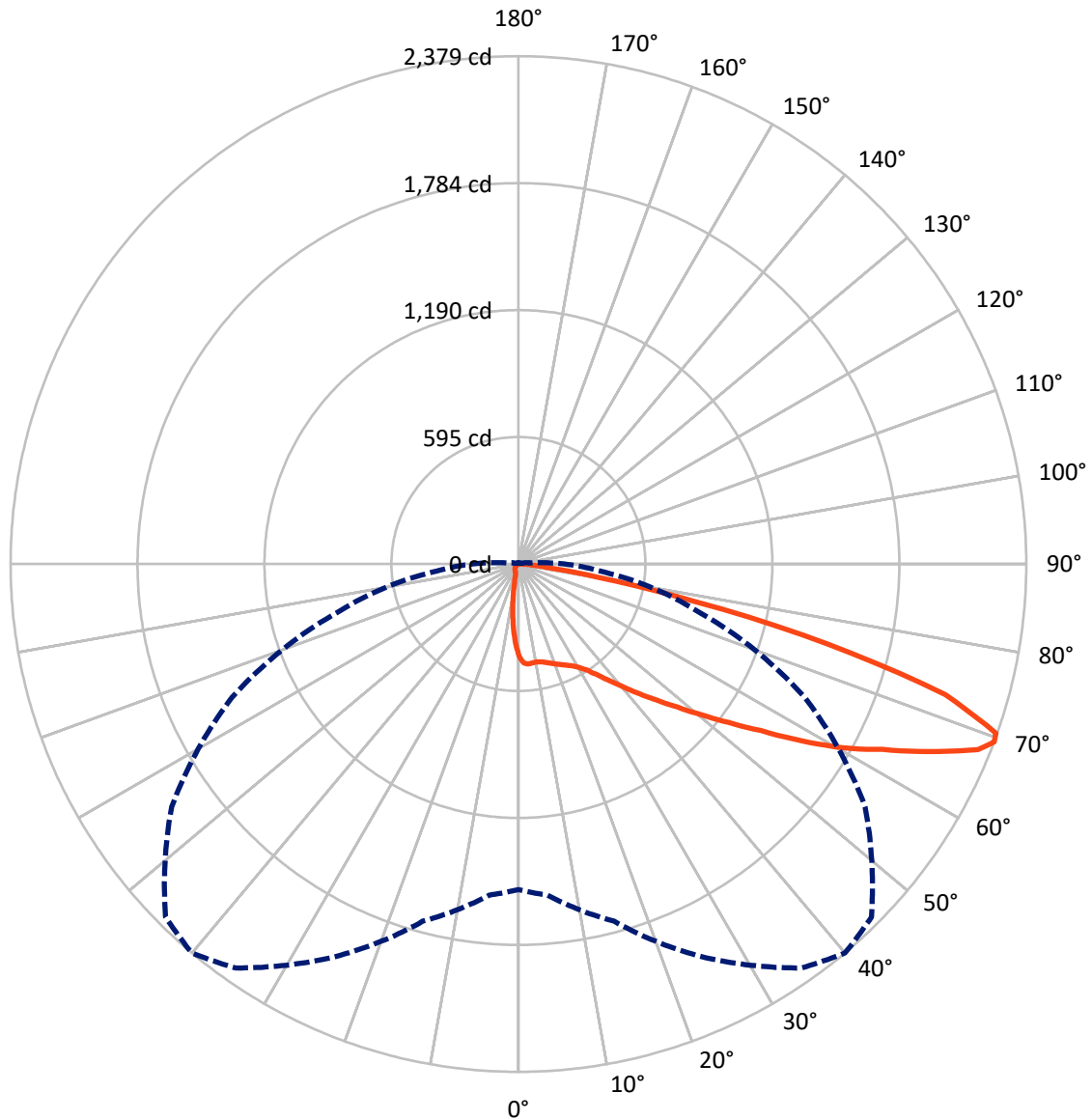


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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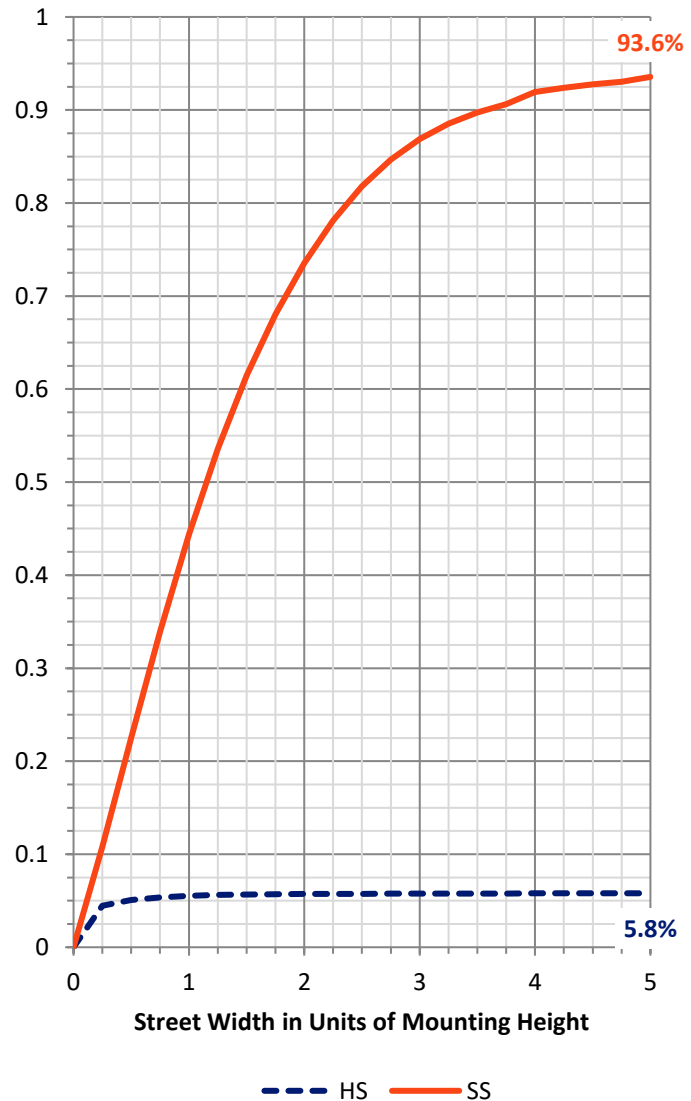
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	169.4	0.0	169.4
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	2726.0	0.0	2726.0
	% Fixture	94.1	0.0	94.1
Total	Lumens	2895.4	0.0	2895.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.1	1.2
10°-20°	86.3	3.0
20°-30°	145.3	5.0
30°-40°	237.8	8.2
40°-50°	411.8	14.2
50°-60°	648.6	22.4
60°-70°	847.1	29.3
70°-80°	436.3	15.1
80°-90°	47.2	1.6
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°	2895.4	100.0
0°-180°	2895.4	100.0



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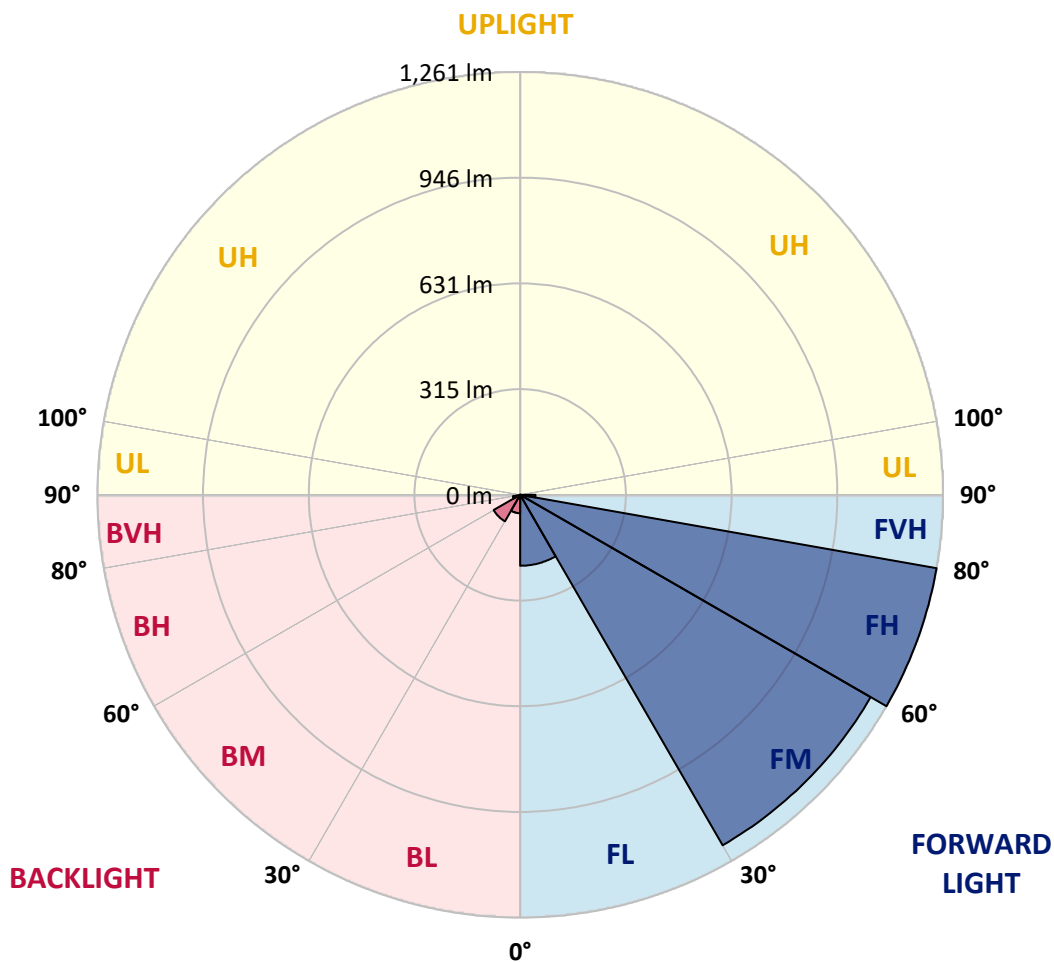
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	211.7	7.3			
FM	(30°-60°)	1207.2	41.7			
FH	(60°-80°)	1261.3	43.6			G1/1800
FVH	(80°-90°)	45.7	1.6			G1/100
BL	(0°-30°)	54.9	1.9	B0/110		
BM	(30°-60°)	91.0	3.1	B0/220		
BH	(60°-80°)	22.0	0.8	B0/110		G0/110
BVH	(80°-90°)	1.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	432.5	432.5	432.5	432.5	432.5	432.5	432.5	432.5	432.5	432.5	432.5
2.5°	474.9	472.4	470.8	468.7	466.2	464.0	463.0	456.7	450.7	442.4	433.0
5°	483.7	482.8	480.1	477.4	474.2	470.8	468.9	461.4	452.7	440.7	424.1
7.5°	484.6	483.6	480.1	476.3	472.1	467.8	464.7	457.1	449.2	436.8	416.8
10°	483.3	482.0	479.4	475.4	470.0	466.0	462.7	455.5	448.9	437.7	415.3
12.5°	481.8	480.6	479.2	477.2	472.6	469.9	467.1	460.1	454.2	444.8	420.3
15°	483.3	482.6	483.9	483.1	480.6	478.1	475.4	469.2	463.6	455.9	429.5
17.5°	489.8	489.8	494.1	494.6	492.2	488.8	484.8	478.5	473.9	467.4	440.3
20°	505.1	504.6	510.1	511.1	505.2	499.9	494.1	486.5	482.8	478.7	450.9
22.5°	531.4	529.1	532.3	531.3	519.8	511.6	504.3	495.0	493.1	491.2	462.9
25°	565.8	564.5	566.7	556.5	536.2	525.0	516.3	505.8	505.8	507.7	476.3
27.5°	615.6	610.5	602.9	584.9	554.4	540.2	530.8	519.6	522.5	529.6	494.1
30°	666.6	661.0	643.5	616.0	576.6	561.7	550.8	539.2	546.0	558.9	518.0
32.5°	716.9	710.6	685.9	651.1	608.5	593.6	583.0	570.2	581.7	603.4	552.6
35°	765.7	760.1	731.6	690.5	650.9	638.5	628.9	617.7	632.4	662.8	601.9
37.5°	820.5	814.4	779.6	735.3	702.5	693.5	686.5	675.3	701.0	745.6	670.2
40°	888.0	877.5	830.8	786.3	762.1	757.8	753.0	751.4	791.5	853.1	761.5
42.5°	965.0	947.9	884.1	840.4	827.6	830.8	829.5	836.4	904.9	986.9	872.4
45°	1042.4	1020.1	943.6	897.9	899.7	910.5	917.2	944.7	1046.6	1140.2	991.9
47.5°	1107.8	1086.0	1000.6	960.1	980.8	1002.1	1020.5	1072.7	1192.4	1291.3	1084.8
50°	1163.8	1143.2	1061.1	1028.6	1075.1	1109.5	1139.2	1216.6	1349.3	1406.1	1149.9
52.5°	1209.7	1196.0	1123.9	1107.0	1182.8	1233.4	1276.8	1369.5	1488.2	1499.6	1200.6
55°	1254.4	1244.5	1191.2	1200.1	1309.3	1378.1	1433.1	1531.6	1607.7	1577.5	1249.2
57.5°	1305.6	1296.8	1268.0	1318.4	1475.6	1562.2	1622.1	1675.3	1713.1	1657.2	1294.9
60°	1358.1	1352.8	1353.6	1449.8	1666.5	1749.5	1782.7	1796.5	1816.6	1732.0	1297.6
62.5°	1408.1	1417.9	1451.3	1595.8	1849.4	1913.2	1929.9	1943.6	1920.0	1744.0	1198.8
65°	1492.7	1508.8	1588.6	1791.5	2050.6	2118.8	2136.0	2089.3	1936.4	1590.2	975.1
67.5°	1534.0	1563.3	1705.7	1973.8	2245.7	2321.5	2315.1	2098.8	1737.7	1212.6	625.8
69°	1525.4	1556.7	1732.7	2029.7	2310.4	2379.3	2338.6	1982.7	1480.4	878.5	384.1
70°	1491.2	1522.8	1718.7	2027.7	2318.7	2373.2	2294.9	1839.5	1251.8	642.3	240.2
72.5°	1245.4	1272.5	1526.0	1832.7	2136.0	2091.8	1919.9	1274.4	609.9	174.9	54.1
75°	766.6	781.7	1094.9	1380.7	1613.4	1499.6	1279.1	634.1	181.8	49.4	30.1
77.5°	405.0	412.0	599.3	813.9	1022.7	846.3	655.7	247.4	83.7	31.0	21.6
80°	239.4	244.6	322.9	372.1	442.5	369.7	262.1	151.9	59.9	19.5	19.4
82.5°	137.0	140.2	234.1	206.8	174.5	148.8	130.4	143.9	36.0	13.0	20.0
85°	50.3	51.1	131.7	157.4	103.8	61.8	64.8	119.3	9.6	8.3	15.7
87.5°	23.4	22.9	67.7	96.4	60.6	39.2	50.5	26.2	3.9	5.3	4.3
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°	432.5	432.5	432.5	432.5	432.5	432.5	432.5	432.5	432.5	432.5	432.5
2.5°	427.5	421.0	409.4	397.6	385.6	376.2	367.0	359.9	357.4	352.9	353.4
5°	414.3	402.6	378.5	354.0	328.5	307.5	287.6	271.6	263.8	255.9	255.9
7.5°	402.9	385.9	348.2	308.3	267.2	232.5	201.3	177.9	164.8	154.6	154.4
10°	398.7	375.5	322.9	265.8	208.3	161.2	124.1	100.3	88.0	80.2	79.8
12.5°	400.6	371.9	303.3	226.5	154.4	103.6	71.9	56.6	51.4	49.0	49.0
15°	406.0	370.9	283.9	188.0	109.1	64.8	47.7	43.6	43.3	43.3	43.3
17.5°	412.9	371.2	263.8	150.6	74.3	46.4	41.2	40.7	41.1	41.1	41.1
20°	419.7	371.4	242.4	116.1	52.5	40.3	38.7	38.5	38.9	38.9	39.2
22.5°	428.1	372.3	220.8	86.6	43.3	38.1	36.9	36.9	37.1	37.1	36.9
25°	437.7	374.0	198.3	64.3	39.4	36.6	35.6	35.4	35.6	35.4	35.2
27.5°	449.8	376.4	173.4	50.3	37.8	34.9	34.1	34.1	34.0	33.7	33.5
30°	465.1	379.2	145.3	42.7	36.0	33.5	32.8	32.6	32.3	32.1	32.1
32.5°	488.0	385.3	117.6	38.7	34.1	31.7	31.0	31.0	30.7	30.4	30.2
35°	523.6	397.1	92.7	36.4	32.1	29.6	28.7	28.7	28.4	28.2	28.0
37.5°	572.7	415.1	72.0	34.1	30.1	27.4	26.5	26.4	26.1	25.7	25.5
40°	638.1	437.6	56.8	32.1	27.8	25.2	24.4	24.2	23.4	22.9	22.9
42.5°	720.0	463.0	46.1	29.9	25.5	23.0	22.5	22.1	20.8	20.3	20.1
45°	805.9	486.1	38.9	27.2	23.0	21.0	20.8	19.9	18.2	17.7	17.7
47.5°	867.8	491.4	34.2	24.9	20.8	18.8	18.7	17.1	15.7	15.4	15.2
50°	906.4	480.9	30.5	22.4	18.8	16.7	16.2	14.4	13.5	13.0	12.9
52.5°	932.4	462.1	27.4	20.3	16.9	14.8	13.7	12.2	11.6	11.1	11.1
55°	953.2	435.5	24.3	18.4	15.4	13.2	11.6	10.5	9.8	9.5	9.5
57.5°	959.1	399.4	21.2	16.9	13.7	11.7	9.8	9.2	8.3	8.2	8.2
60°	916.5	334.4	18.8	15.0	12.3	10.2	8.7	7.7	6.8	6.6	6.6
62.5°	804.3	258.8	16.6	13.2	10.9	8.9	7.5	6.4	5.7	5.7	5.7
65°	613.5	173.6	14.6	11.6	9.5	7.5	6.4	5.2	4.9	4.9	5.0
67.5°	367.2	94.4	12.3	9.8	8.2	6.2	5.3	4.5	4.3	4.5	4.5
69°	215.2	55.4	11.1	8.9	7.0	5.5	4.6	4.0	4.3	4.5	4.5
70°	132.9	37.4	10.3	7.9	6.4	5.0	4.3	3.9	4.1	4.3	4.3
72.5°	37.1	19.4	8.3	6.2	5.2	4.1	3.5	3.5	4.0	4.1	4.1
75°	24.2	14.4	6.4	4.6	4.0	3.2	3.0	3.2	3.9	4.0	4.0
77.5°	20.0	11.7	5.2	3.9	3.2	3.1	2.8	3.0	3.5	3.7	3.7
80°	18.2	8.3	4.1	3.5	3.0	2.8	2.5	2.4	3.1	3.2	3.2
82.5°	17.3	6.6	3.7	3.1	2.8	2.4	2.2	2.4	2.8	3.0	3.1
85°	10.9	4.3	3.2	3.0	2.4	2.2	2.2	2.2	2.5	2.8	2.8
87.5°	4.0	3.5	3.0	2.4	2.1	2.1	2.1	2.1	2.2	2.5	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

(END OF REPORT)