

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: P324785

Luminaire Tested: **GAN-SA1A-740-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3994 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

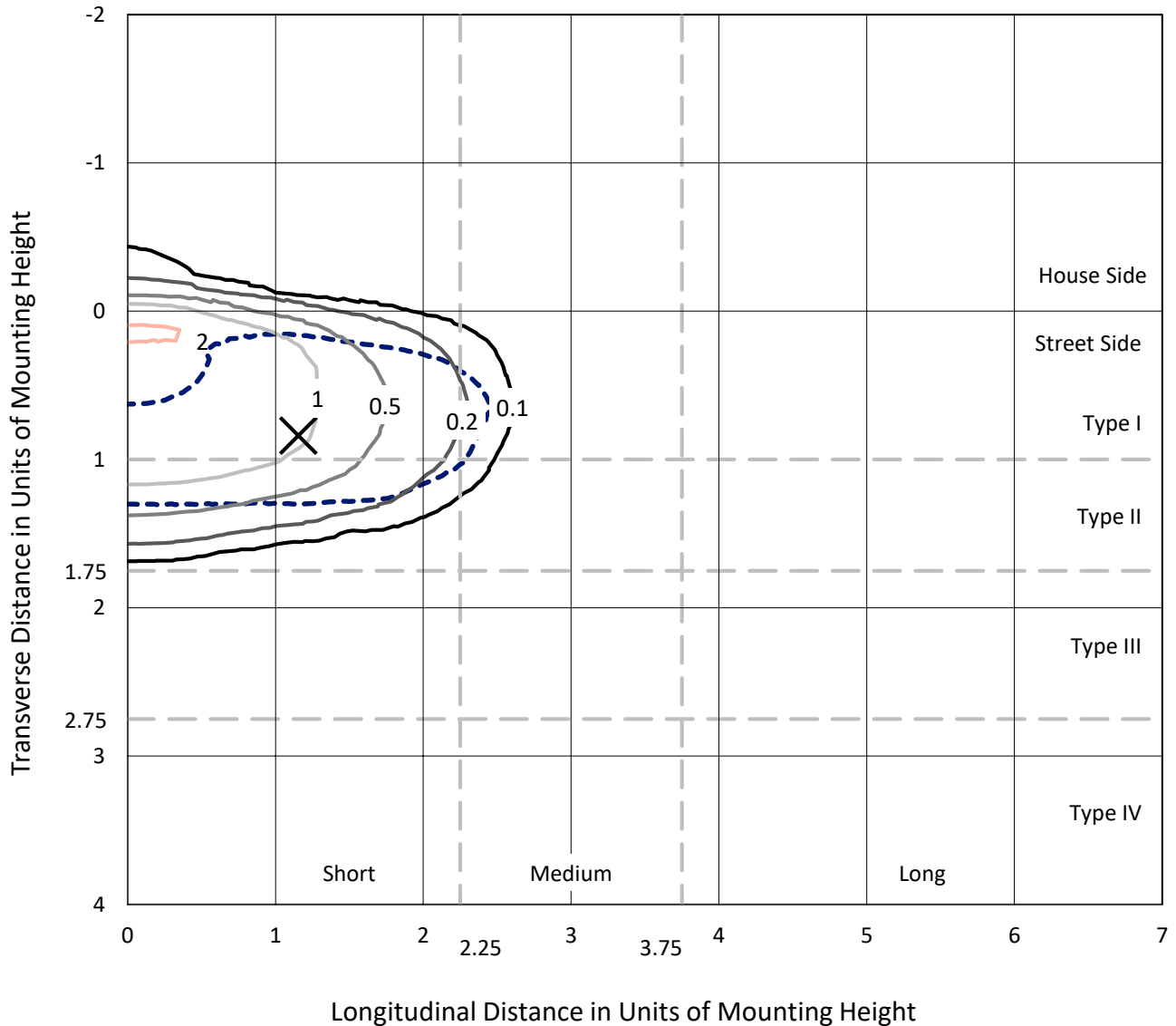
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

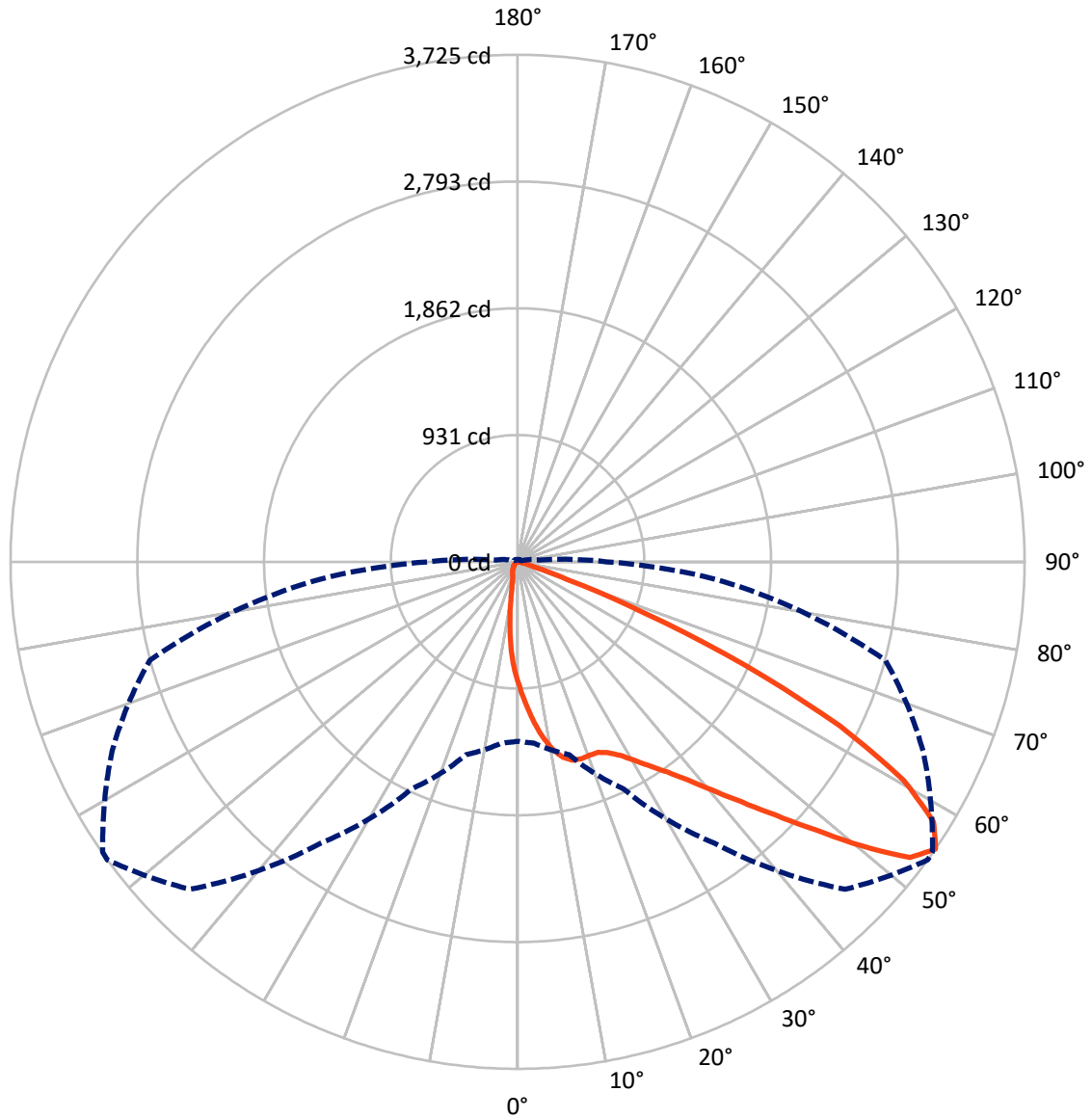
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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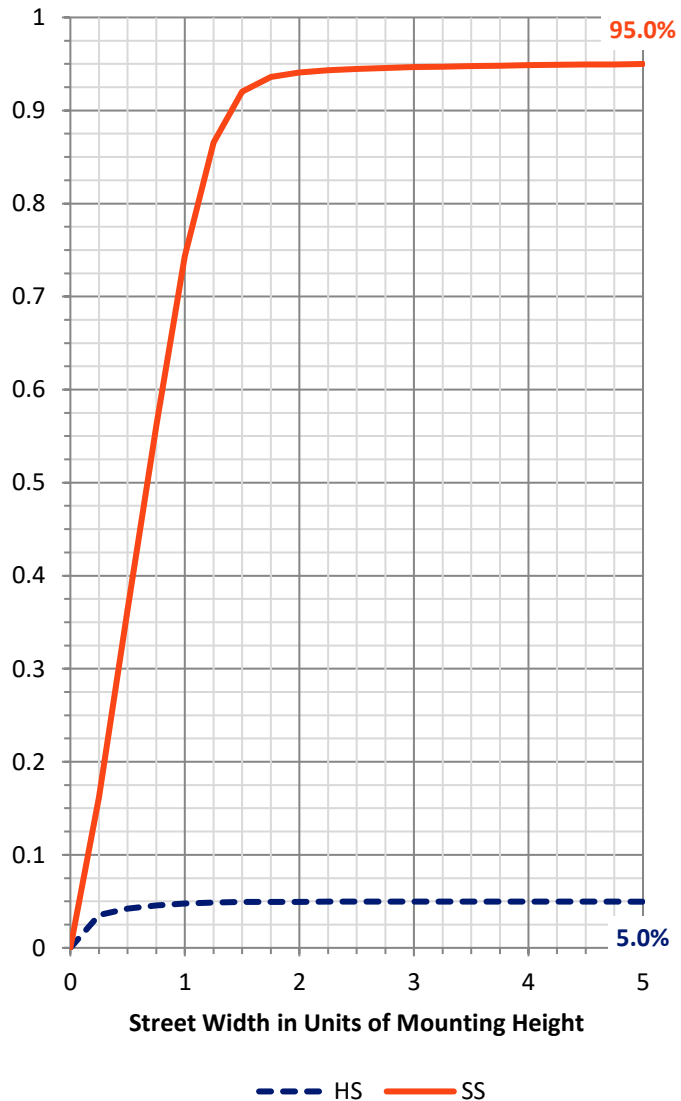
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	199.3	0.0	199.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3794.7	0.0	3794.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	3994.0	0.0	3994.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	2.1
10°-20°	225.9	5.7
20°-30°	385.7	9.7
30°-40°	619.0	15.5
40°-50°	989.1	24.8
50°-60°	1059.9	26.5
60°-70°	544.2	13.6
70°-80°	82.4	2.1
80°-90°	5.4	0.1
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°	3994.0	100.0
0°-180°	3994.0	100.0

Coefficient of Utilization

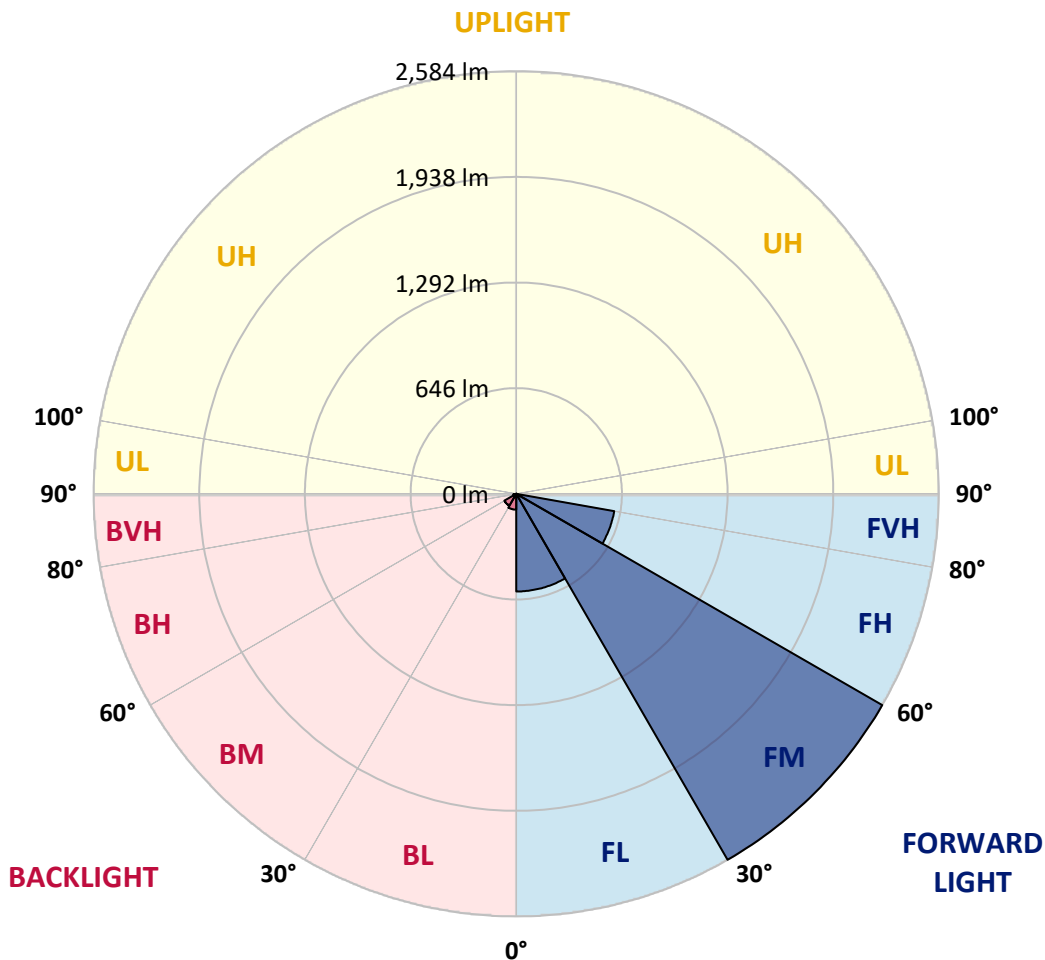


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	597.0	14.9			
FM (30°-60°)	2584.3	64.7			
FH (60°-80°)	608.3	15.2			G0/660
FVH (80°-90°)	5.2	0.1			G0/10
BL (0°-30°)	97.0	2.4	B0/110		
BM (30°-60°)	83.7	2.1	B0/220		
BH (60°-80°)	18.4	0.5	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	894.5	894.5	894.5	894.5	894.5	894.5	894.5	894.5	894.5	894.5	894.5
2.5°	1122.5	1105.8	1106.3	1098.7	1070.9	1049.2	1026.6	1021.3	986.1	949.2	913.6
5°	1316.6	1304.3	1301.4	1286.7	1248.1	1207.2	1163.4	1153.2	1084.4	1008.9	934.5
7.5°	1416.3	1416.4	1414.0	1408.7	1384.5	1344.8	1291.4	1280.7	1187.0	1073.7	956.2
10°	1387.3	1393.8	1407.3	1425.1	1443.5	1438.5	1398.3	1388.7	1286.9	1142.4	980.4
12.5°	1319.7	1320.5	1335.5	1364.7	1417.8	1472.3	1473.0	1469.7	1382.3	1214.1	1007.0
15°	1286.0	1289.3	1294.8	1313.6	1364.0	1451.3	1513.7	1518.4	1469.7	1290.3	1035.2
17.5°	1308.1	1312.8	1308.1	1310.4	1339.5	1418.0	1520.8	1532.7	1546.1	1365.7	1062.0
20°	1368.0	1372.3	1364.0	1354.9	1360.5	1408.3	1515.8	1531.8	1606.0	1432.6	1084.4
22.5°	1448.7	1450.4	1437.8	1422.8	1418.7	1441.1	1519.9	1536.5	1653.9	1493.2	1098.5
25°	1537.5	1539.1	1523.4	1506.1	1496.3	1505.4	1553.9	1566.3	1696.2	1551.0	1106.6
27.5°	1634.3	1635.7	1616.0	1594.8	1583.4	1583.7	1610.0	1623.2	1741.2	1616.9	1113.2
30°	1736.6	1735.9	1717.8	1688.3	1673.8	1673.4	1690.7	1704.1	1806.4	1701.4	1122.2
32.5°	1851.4	1850.1	1824.4	1787.8	1771.4	1773.8	1789.2	1796.9	1887.3	1791.4	1138.2
35°	2002.7	1998.7	1959.9	1914.6	1884.4	1883.5	1896.4	1902.7	1990.5	1900.4	1164.9
37.5°	2199.0	2195.4	2142.8	2076.9	2034.4	2018.6	2033.9	2041.9	2137.6	2040.3	1207.9
40°	2392.5	2388.9	2357.7	2297.3	2231.9	2193.8	2205.9	2214.3	2321.3	2210.0	1262.1
42.5°	2526.0	2529.1	2540.0	2545.0	2483.8	2403.7	2409.2	2418.0	2514.3	2391.5	1324.0
45°	2561.2	2567.9	2629.3	2749.9	2772.8	2710.4	2652.6	2657.4	2710.4	2572.9	1385.9
47.5°	2455.5	2467.9	2586.4	2810.6	3004.8	3049.0	2939.6	2933.2	2898.6	2719.7	1429.9
50°	2215.2	2226.6	2380.1	2711.8	3075.2	3372.2	3283.6	3264.8	3063.6	2807.5	1445.4
52.5°	1867.5	1881.3	2006.0	2400.6	2942.6	3516.4	3609.2	3593.5	3184.7	2814.4	1448.0
55°	1318.8	1335.5	1467.5	1839.9	2522.2	3401.7	3724.6	3719.9	3285.3	2796.1	1453.5
57.5°	741.2	753.2	895.5	1179.4	1847.3	2962.9	3604.0	3634.9	3346.0	2764.4	1461.8
60°	329.1	332.4	406.0	587.1	1081.5	2264.4	3258.9	3311.0	3293.9	2722.0	1475.8
62.5°	182.5	179.7	179.7	244.1	470.0	1401.8	2657.4	2743.5	3071.6	2671.8	1476.5
65°	143.0	140.4	133.0	134.0	179.0	622.1	1840.2	1993.2	2649.3	2524.6	1426.8
67.5°	121.3	119.0	111.6	108.7	111.3	205.3	1011.1	1170.0	2010.3	2142.2	1235.8
70°	102.5	100.9	97.1	93.5	86.9	101.4	386.9	494.9	1238.8	1425.1	843.6
72.5°	82.4	81.8	83.1	80.0	72.1	67.6	132.3	160.2	556.4	635.9	347.6
75°	71.1	70.7	71.4	68.3	59.3	47.1	67.3	73.5	157.0	155.6	70.4
77.5°	46.2	46.7	59.2	57.8	51.1	31.4	34.8	37.6	47.6	35.7	21.4
80°	29.5	29.1	30.0	48.0	45.9	24.0	17.4	18.3	22.9	17.6	10.3
82.5°	17.9	17.6	19.7	22.4	23.1	16.7	10.7	10.9	14.3	11.4	5.5
85°	1.6	2.1	11.9	11.0	7.9	5.2	5.2	5.5	7.6	6.7	3.1
87.5°	0.0	0.0	2.1	3.1	1.7	1.9	1.9	2.1	2.9	2.9	1.6
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°	894.5	894.5	894.5	894.5	894.5	894.5	894.5	894.5	894.5	894.5	894.5
2.5°	895.2	877.2	841.0	806.2	776.7	748.2	715.8	683.7	668.7	662.7	656.5
5°	896.7	859.8	785.1	709.9	632.0	561.8	501.9	440.5	409.8	396.4	390.2
7.5°	898.8	842.6	721.8	595.6	470.0	374.8	291.7	238.2	215.1	211.5	202.5
10°	899.2	821.7	648.4	469.3	315.1	226.0	173.9	146.3	136.1	134.4	131.4
12.5°	899.8	797.0	566.8	347.6	210.1	151.1	125.7	116.6	113.8	113.7	113.7
15°	901.9	771.2	482.1	250.4	150.9	119.7	110.4	106.8	105.7	106.2	106.1
17.5°	901.9	740.6	399.0	186.6	121.9	107.6	102.5	100.0	99.7	100.2	100.4
20°	895.4	703.6	322.7	145.2	108.1	99.9	95.2	93.0	92.1	92.5	92.6
22.5°	879.7	658.0	260.6	120.2	99.0	92.8	87.8	84.3	83.0	83.1	83.1
25°	855.2	604.0	203.9	104.0	91.6	85.2	79.3	75.4	74.5	74.3	74.7
27.5°	823.8	544.4	162.3	91.6	82.8	76.8	70.9	67.6	66.9	67.1	67.3
30°	792.9	482.4	128.0	81.1	73.0	67.3	62.8	61.2	61.2	61.7	61.9
32.5°	764.6	422.9	101.2	71.9	64.2	59.0	56.4	56.2	57.1	57.4	57.6
35°	740.3	367.9	83.8	64.9	57.3	52.8	51.9	52.6	53.6	54.3	54.5
37.5°	723.0	318.7	73.3	59.0	51.9	48.3	48.1	49.5	50.9	52.4	52.8
40°	715.8	277.2	66.1	53.8	47.6	44.8	44.3	46.2	48.8	51.1	51.4
42.5°	709.8	243.2	59.9	48.8	44.2	40.2	40.0	42.4	45.5	47.8	48.3
45°	704.6	215.9	54.2	43.5	39.7	34.5	35.0	38.1	40.5	42.9	43.5
47.5°	693.9	193.5	48.0	37.8	32.8	29.5	30.5	33.3	35.2	38.8	39.3
50°	674.8	175.2	41.6	30.9	26.7	25.5	27.1	29.0	31.4	34.5	34.8
52.5°	661.8	161.4	36.0	25.9	22.1	22.4	24.0	24.7	26.0	27.3	26.9
55°	654.4	153.9	31.6	22.4	18.8	19.8	20.2	19.3	18.6	17.4	16.9
57.5°	653.5	147.0	28.1	19.5	16.6	17.1	15.9	12.9	10.5	9.1	8.8
60°	652.2	138.5	25.4	16.4	14.7	14.0	11.4	7.1	5.0	4.7	4.7
62.5°	637.2	125.4	23.3	13.8	12.4	10.5	6.6	3.3	2.8	2.9	2.9
65°	589.4	107.1	21.2	11.2	9.8	7.6	3.3	1.9	1.0	1.2	1.2
67.5°	501.1	85.4	19.0	8.6	7.4	4.8	1.9	0.9	0.0	0.0	0.0
70°	335.5	53.0	16.0	6.0	4.8	2.9	1.4	0.2	0.0	0.0	0.0
72.5°	128.7	28.6	12.9	3.6	3.1	2.1	0.9	0.0	0.0	0.0	0.0
75°	29.0	18.8	9.0	2.6	2.2	1.4	0.3	0.0	0.0	0.0	0.0
77.5°	11.0	13.6	5.2	1.7	1.6	0.9	0.0	0.0	0.0	0.0	0.0
80°	5.3	8.1	2.4	1.0	0.9	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	2.8	3.1	1.0	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.6	1.6	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.5	0.2	0.2	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)