

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: P321225

Luminaire Tested: **GAN-SA1A-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3587 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

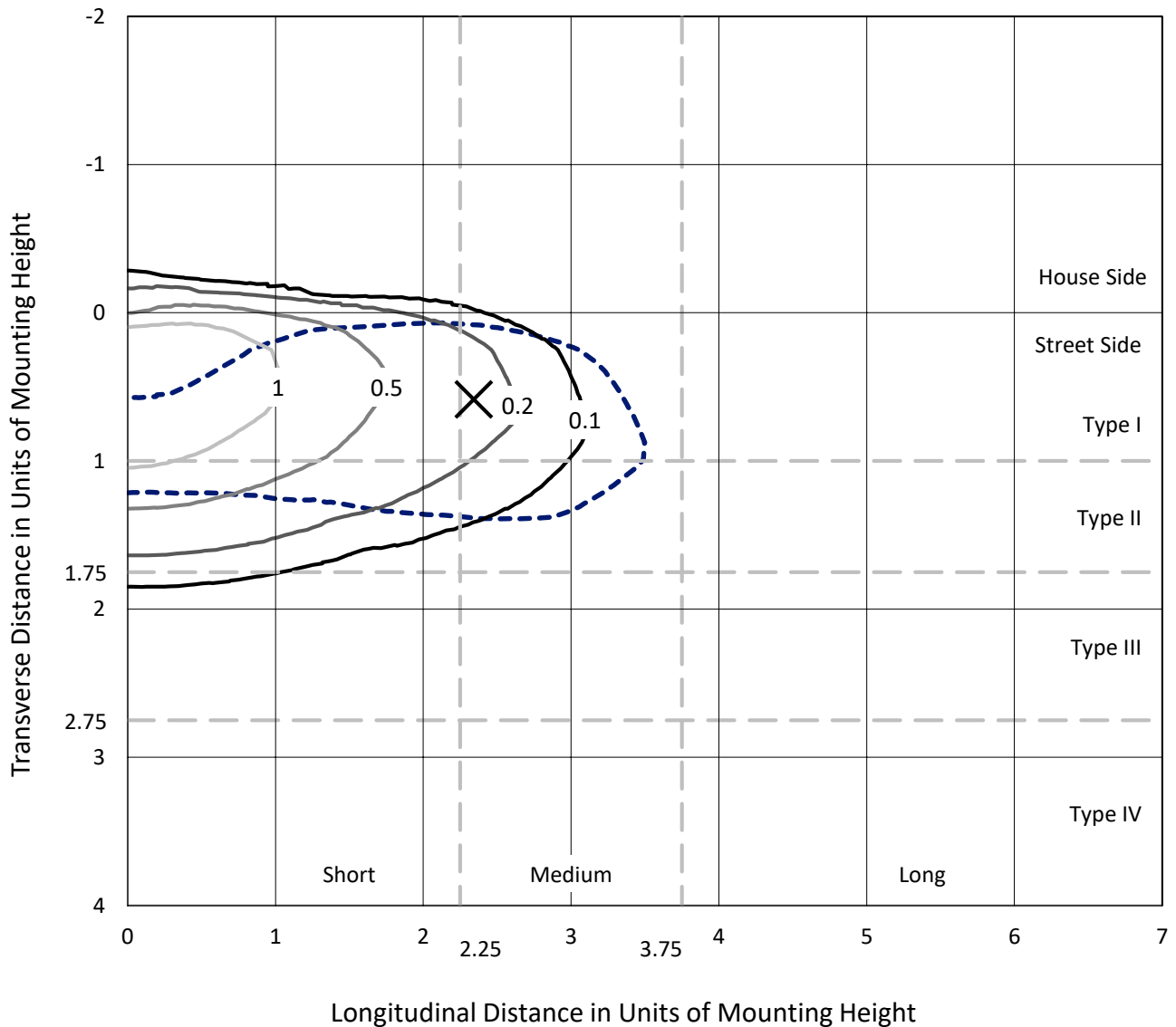
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

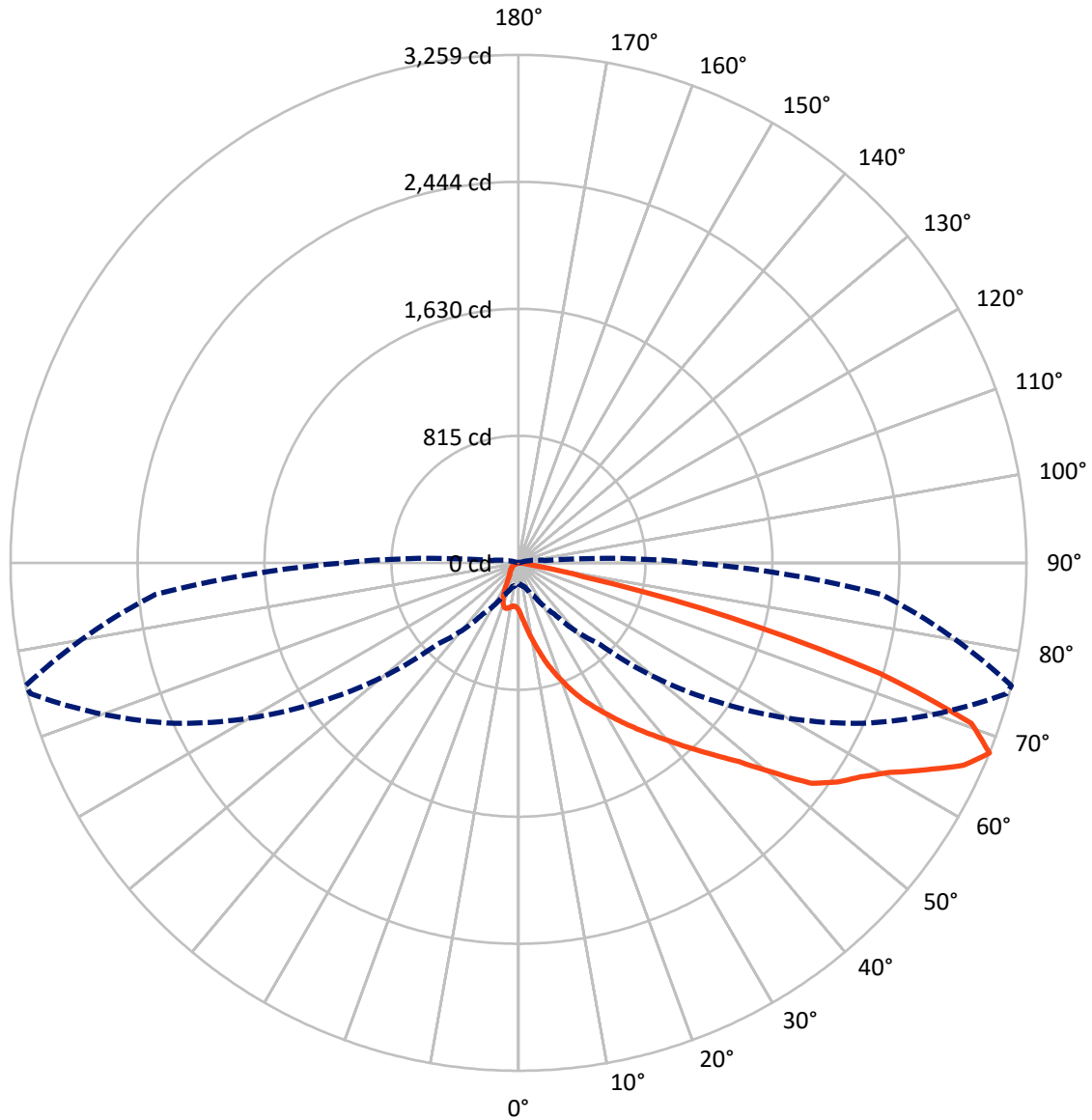
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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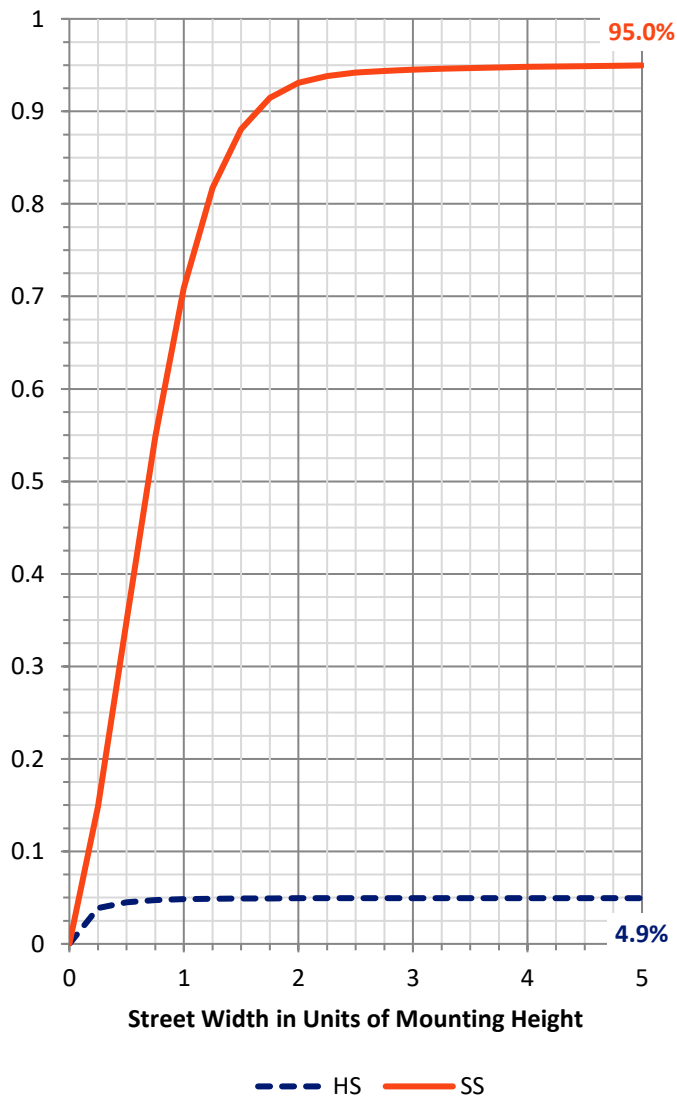
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	178.1	0.0	178.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3408.9	0.0	3408.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	3587.0	0.0	3587.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.8	1.1
10°-20°	150.0	4.2
20°-30°	305.2	8.5
30°-40°	529.7	14.8
40°-50°	748.4	20.9
50°-60°	848.7	23.7
60°-70°	703.9	19.6
70°-80°	255.0	7.1
80°-90°	8.3	0.2
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°	3587.0	100.0
0°-180°	3587.0	100.0

Coefficient of Utilization



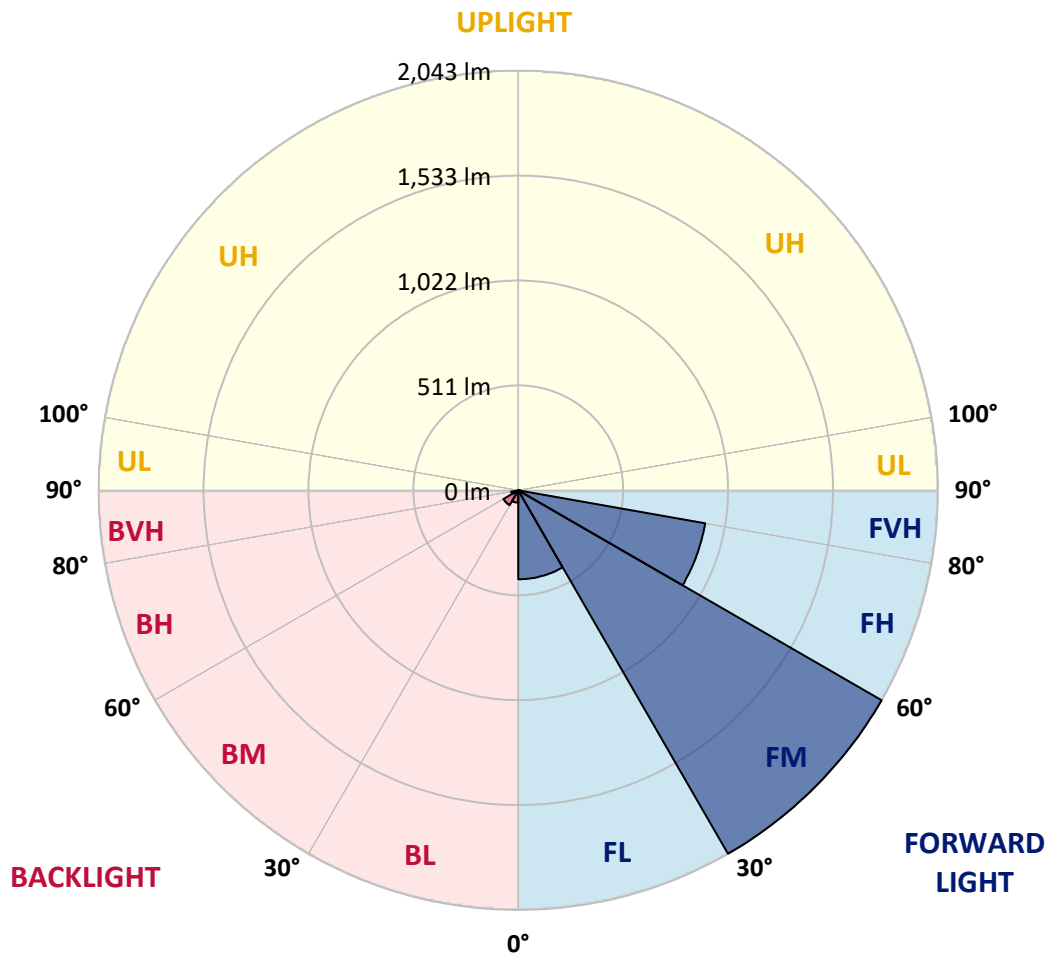
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	432.9	12.1			
FM (30°-60°)	2043.4	57.0			
FH (60°-80°)	924.5	25.8			G1/1800
FVH (80°-90°)	8.0	0.2			G0/10
BL (0°-30°)	60.1	1.7	B0/110		
BM (30°-60°)	83.4	2.3	B0/220		
BH (60°-80°)	34.4	1.0	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: B0-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3
2.5°	454.2	444.0	446.4	439.8	427.8	403.3	382.4	362.6	339.5	338.7	319.7
5°	612.5	603.8	602.7	589.4	567.7	526.0	485.5	439.3	387.7	384.0	343.6
7.5°	756.1	749.2	746.7	730.8	690.4	649.9	597.1	529.2	448.6	441.6	375.8
10°	866.5	863.2	863.8	852.5	817.9	780.2	710.9	624.3	517.6	506.9	414.5
12.5°	950.1	950.9	956.5	949.6	930.3	902.3	828.3	725.7	593.9	579.3	458.6
15°	1011.5	1015.5	1025.8	1034.5	1033.1	1008.9	941.0	828.6	675.0	658.9	507.8
17.5°	1051.3	1055.7	1070.8	1090.0	1107.6	1101.9	1049.7	927.9	757.1	738.4	560.5
20°	1086.2	1091.4	1107.6	1132.9	1165.7	1172.8	1138.5	1024.3	839.0	816.2	614.8
22.5°	1161.8	1161.6	1171.5	1186.3	1217.6	1235.8	1214.1	1113.7	919.9	896.2	670.3
25°	1298.5	1293.4	1289.9	1278.3	1285.2	1296.5	1284.4	1197.3	1001.3	977.3	726.6
27.5°	1461.1	1464.2	1436.2	1404.9	1380.7	1369.1	1349.3	1274.8	1079.6	1053.2	781.6
30°	1632.5	1633.5	1600.5	1560.5	1507.3	1463.1	1428.8	1348.8	1160.1	1131.3	835.0
32.5°	1787.2	1781.1	1748.4	1694.0	1626.7	1577.0	1505.8	1431.5	1245.3	1217.4	894.5
35°	1909.8	1902.5	1862.8	1813.3	1743.5	1693.5	1607.9	1514.0	1334.8	1307.7	954.0
37.5°	1999.4	1990.9	1950.0	1899.1	1838.9	1809.8	1726.2	1603.8	1432.6	1403.4	1016.7
40°	2030.5	2023.1	1997.5	1960.2	1911.8	1905.2	1851.8	1707.0	1539.0	1507.9	1087.8
42.5°	2011.9	2004.7	1995.6	1983.0	1962.9	1969.2	1970.3	1824.7	1657.2	1626.6	1166.2
45°	1938.4	1931.9	1941.4	1959.8	1984.7	2015.9	2078.4	1951.3	1789.2	1756.5	1256.9
47.5°	1830.1	1825.4	1851.5	1897.4	1970.4	2056.3	2177.3	2084.2	1937.4	1907.1	1370.1
50°	1676.1	1675.3	1727.5	1811.2	1923.6	2075.7	2279.4	2235.4	2143.3	2111.4	1527.4
52.5°	1436.2	1437.8	1540.4	1674.5	1841.4	2062.5	2345.1	2429.7	2382.9	2349.7	1663.6
55°	1207.9	1217.3	1290.1	1483.4	1715.4	2013.5	2367.8	2520.4	2515.0	2483.6	1739.4
57.5°	984.2	1001.3	1071.4	1252.0	1531.3	1900.5	2355.4	2559.7	2613.4	2589.4	1839.4
60°	741.8	749.7	830.5	999.3	1295.1	1694.3	2265.3	2581.0	2748.0	2731.3	1984.4
62.5°	472.0	491.6	563.3	726.1	1008.4	1407.9	2113.5	2580.7	2916.3	2925.4	2171.6
65°	248.6	271.6	309.6	450.0	693.0	1088.1	1885.1	2556.5	3122.8	3135.5	2317.9
67.5°	134.1	140.7	160.8	233.6	401.9	737.1	1549.5	2437.1	3242.4	3259.2	2338.4
70°	98.1	101.7	109.2	129.2	202.3	428.1	1130.7	2166.3	3088.2	3082.0	2077.6
72.5°	75.3	80.9	86.6	94.6	116.3	228.5	704.0	1696.3	2464.1	2422.6	1553.0
75°	59.4	60.4	68.4	75.6	87.2	130.1	312.6	988.0	1504.0	1405.7	805.3
77.5°	47.5	48.1	52.8	59.1	70.1	85.5	96.8	388.7	480.2	428.4	174.8
80°	28.1	29.7	39.3	45.6	58.2	53.9	35.4	84.4	75.0	67.9	29.4
82.5°	15.7	17.0	22.2	36.0	40.5	25.8	17.6	22.8	17.6	17.1	8.3
85°	0.0	0.8	14.3	22.3	16.5	5.7	7.4	7.5	5.2	4.9	3.3
87.5°	0.0	0.0	4.4	4.2	0.6	0.9	1.7	2.5	2.0	2.0	1.7
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°	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3
2.5°	310.3	301.8	285.7	270.0	256.8	246.0	236.2	232.3	229.2	228.7	226.2
5°	324.1	307.0	276.3	251.2	234.3	222.4	212.2	205.9	201.0	199.1	197.4
7.5°	345.0	319.1	275.0	246.1	226.0	205.9	187.0	166.6	153.9	149.0	146.2
10°	370.5	335.1	279.8	244.7	209.5	167.1	135.8	109.9	99.3	95.9	94.9
12.5°	400.2	355.0	287.9	235.9	174.3	118.7	93.7	84.9	82.5	81.4	81.4
15°	434.3	376.9	293.8	210.5	128.9	89.7	81.1	77.0	74.5	73.1	73.2
17.5°	469.2	398.3	290.9	173.5	95.1	79.8	73.4	69.0	65.5	64.1	63.8
20°	504.4	418.1	275.2	129.2	80.5	72.5	65.2	60.4	56.9	55.5	55.2
22.5°	540.8	434.9	247.5	94.8	72.3	64.3	57.2	52.3	49.0	47.8	47.2
25°	576.3	448.6	208.9	76.7	64.6	56.6	49.8	45.3	42.3	41.0	40.9
27.5°	609.5	457.2	164.1	67.7	57.8	49.7	43.5	39.4	36.9	36.0	35.8
30°	639.4	458.0	121.3	61.1	51.9	43.7	38.0	34.4	32.2	31.3	31.0
32.5°	669.5	451.4	88.3	55.2	46.4	38.5	33.0	30.2	28.6	27.8	27.8
35°	698.0	436.1	68.8	50.0	41.0	33.5	29.1	27.0	26.1	25.3	25.3
37.5°	725.8	414.3	58.5	45.4	36.0	29.2	25.6	24.4	23.6	22.8	22.8
40°	754.1	386.8	53.1	41.2	31.9	25.9	22.8	21.7	20.9	20.3	20.1
42.5°	788.8	355.0	49.7	37.2	28.3	22.9	20.1	18.9	18.2	17.6	17.3
45°	829.1	327.7	46.8	33.3	25.3	20.4	17.4	16.2	15.2	14.5	14.3
47.5°	887.1	307.9	43.1	29.1	22.5	17.8	15.1	13.7	12.3	11.5	11.3
50°	961.1	291.6	38.2	25.3	19.6	15.1	12.6	10.8	9.6	8.8	8.8
52.5°	997.9	270.2	33.8	22.0	16.5	12.7	10.2	8.2	7.5	6.8	6.8
55°	1012.6	253.8	29.4	18.7	13.7	10.5	8.0	6.3	5.8	5.3	5.2
57.5°	1054.1	249.1	25.6	15.9	11.3	8.3	6.1	4.7	4.4	3.8	3.8
60°	1120.9	251.5	22.2	13.5	9.1	6.4	4.6	3.6	3.3	2.7	2.7
62.5°	1193.1	248.5	18.7	11.6	7.1	4.7	3.1	2.7	2.7	1.6	1.4
65°	1206.9	221.3	16.0	9.6	5.5	3.5	2.0	1.7	2.4	0.3	0.0
67.5°	1120.2	171.6	13.8	7.4	4.1	2.7	1.6	0.8	2.0	0.0	0.0
70°	895.7	109.1	11.2	5.3	3.1	2.2	1.3	0.3	1.6	0.0	0.0
72.5°	633.4	63.3	8.8	3.8	2.7	1.7	0.9	0.0	0.9	0.0	0.0
75°	320.3	33.8	5.5	2.8	2.0	1.3	0.6	0.0	0.2	0.0	0.0
77.5°	69.3	15.7	3.5	2.0	1.4	0.8	0.3	0.0	0.0	0.0	0.0
80°	15.1	6.9	2.2	1.3	0.8	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	5.5	3.6	1.1	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.0	1.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.6	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)