

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: P318705

Luminaire Tested: **GAN-SA1A-740-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4909 lumens
Efficiency: N/A
Efficacy: 144.4 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

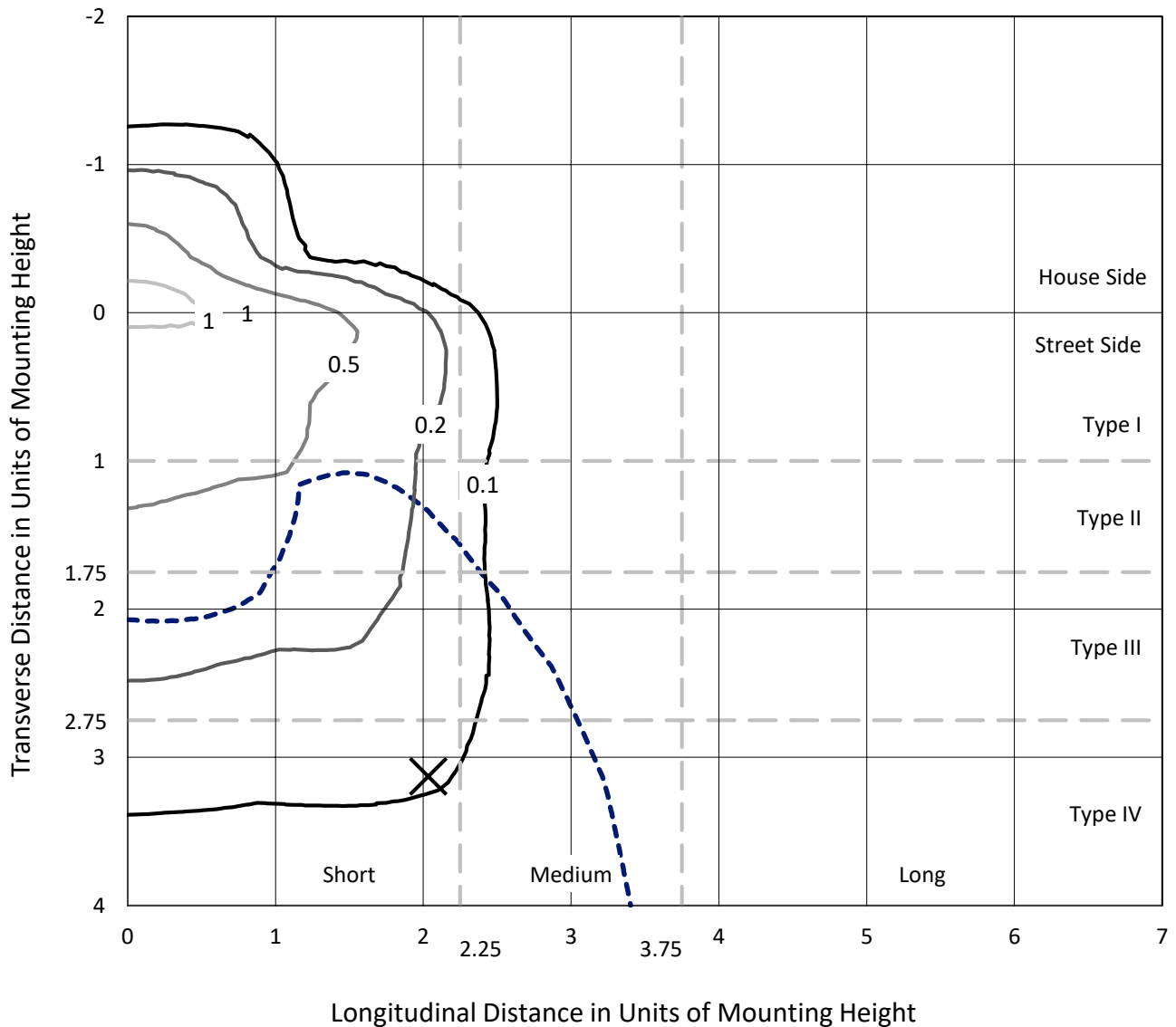
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

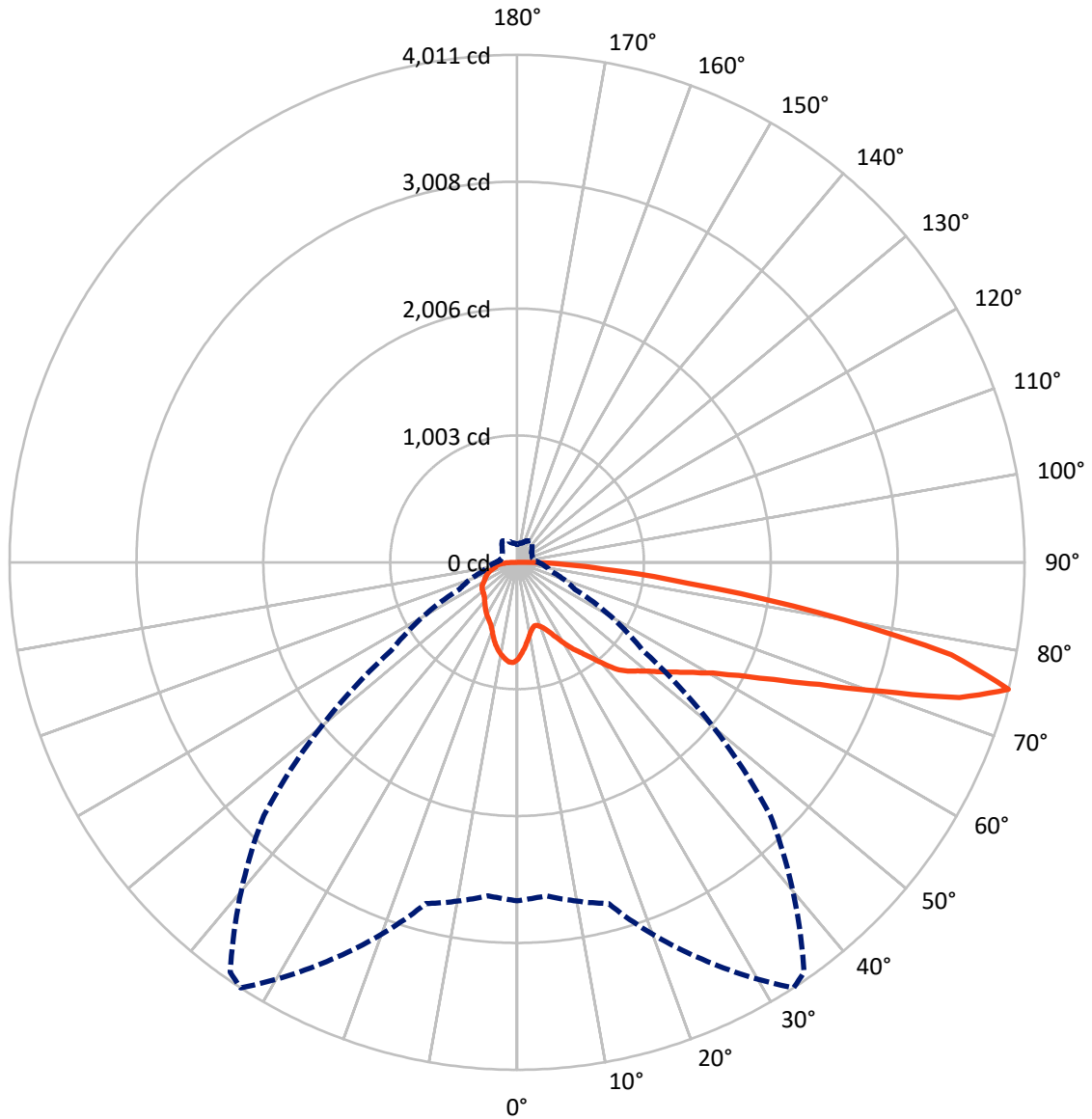
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical



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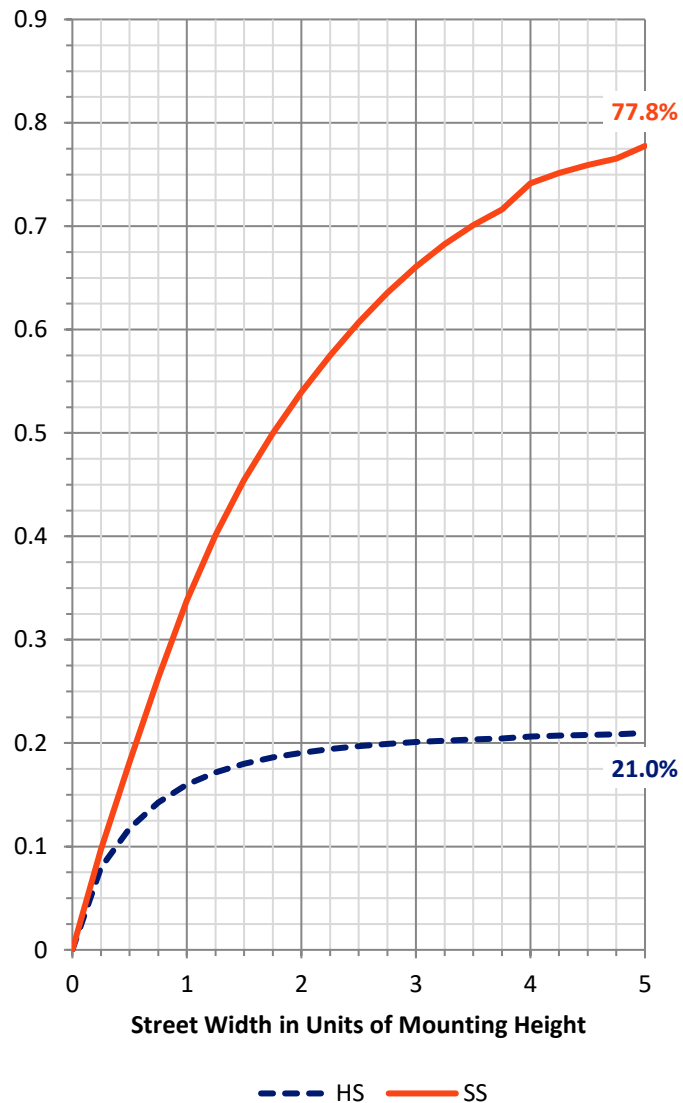
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1054.1	0.0	1054.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	3854.9	0.0	3854.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	4909.0	0.0	4909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	1.4
10°-20°	187.9	3.8
20°-30°	306.9	6.3
30°-40°	457.1	9.3
40°-50°	655.6	13.4
50°-60°	900.1	18.3
60°-70°	1126.8	23.0
70°-80°	1019.4	20.8
80°-90°	185.7	3.8
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°	4909.0	100.0
0°-180°	4909.0	100.0

Coefficient of Utilization



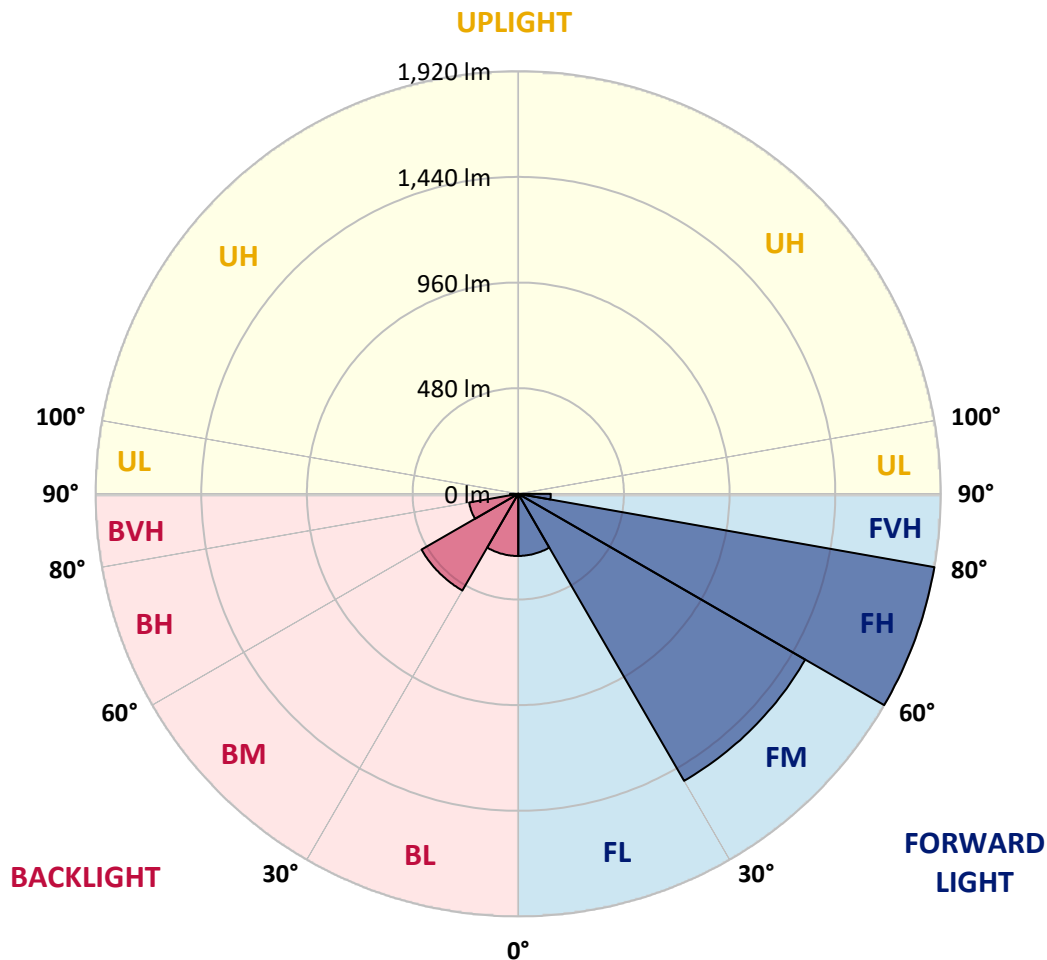
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	281.9	5.7			
FM (30°-60°)	1505.5	30.7			
FH (60°-80°)	1919.6	39.1			G2/5000
FVH (80°-90°)	147.9	3.0			G2/225
BL (0°-30°)	282.3	5.8	B1/500		
BM (30°-60°)	507.3	10.3	B1/1000		
BH (60°-80°)	226.6	4.6	B1/500		G1/500
BVH (80°-90°)	37.8	0.8			G1/100
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°	33°	35°	45°	55°	65°	75°	85°
0°	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3
2.5°	712.5	709.8	714.9	715.6	720.0	721.7	727.8	737.3	745.1	754.1	762.2
5°	647.9	646.1	653.2	658.3	667.9	672.0	686.4	706.6	724.6	744.9	763.4
7.5°	586.5	585.5	593.5	605.0	616.2	621.8	646.7	676.1	706.1	739.0	767.3
10°	534.8	534.5	542.1	553.5	569.9	576.2	608.4	647.1	689.1	734.4	773.9
12.5°	505.8	507.0	510.6	520.1	535.3	541.6	577.4	622.8	674.9	732.9	783.6
15°	512.9	514.8	508.7	508.4	519.2	524.1	557.7	605.5	664.7	735.4	797.7
17.5°	543.3	543.6	527.5	517.4	524.0	526.5	551.6	595.7	658.8	741.2	815.3
20°	586.0	585.2	556.7	539.7	543.3	544.0	560.3	595.9	658.3	751.2	838.2
22.5°	642.7	636.4	598.1	575.0	574.2	573.1	582.5	608.4	665.7	767.5	865.5
25°	716.6	710.7	657.9	626.4	619.6	617.1	618.4	635.2	680.5	784.9	896.0
27.5°	798.8	788.5	737.6	693.0	679.0	675.4	667.3	673.0	696.6	801.7	932.3
30°	867.7	862.1	817.7	764.8	748.1	743.1	721.7	715.4	719.8	824.6	978.1
32.5°	906.2	902.5	875.5	832.8	817.3	810.2	780.0	767.5	757.1	860.7	1040.1
35°	952.8	950.4	934.2	903.1	880.2	872.8	849.4	836.3	809.7	910.4	1120.3
37.5°	1012.2	1009.6	1010.0	984.9	957.6	950.6	935.2	921.4	877.9	975.7	1207.5
40°	1079.3	1074.4	1072.5	1071.3	1054.0	1050.1	1042.0	1023.4	963.3	1053.7	1293.5
42.5°	1180.4	1162.9	1125.6	1139.7	1156.8	1154.8	1161.4	1134.6	1058.3	1146.0	1377.4
45°	1277.9	1249.2	1184.8	1187.8	1225.3	1236.7	1286.2	1267.2	1161.2	1247.0	1464.2
47.5°	1322.3	1300.6	1245.8	1246.0	1283.1	1306.7	1415.2	1401.7	1269.4	1361.8	1570.2
50°	1372.0	1350.3	1301.1	1319.6	1352.0	1377.1	1539.9	1532.9	1372.3	1487.5	1697.2
52.5°	1426.3	1389.5	1358.3	1391.3	1436.8	1465.9	1664.7	1645.7	1466.8	1614.0	1843.2
55°	1426.9	1416.9	1440.7	1464.9	1532.9	1568.7	1795.4	1745.2	1543.8	1738.3	1962.1
57.5°	1508.2	1491.9	1542.2	1553.4	1642.3	1682.6	1925.5	1831.9	1622.1	1833.6	2026.2
60°	1615.7	1601.8	1643.0	1672.5	1777.6	1831.5	2064.3	1920.9	1683.7	1905.5	2023.1
62.5°	1801.3	1785.6	1785.1	1826.4	1968.0	2030.8	2220.2	2008.2	1708.1	1919.7	1936.8
65°	2073.2	2048.1	2000.8	2020.4	2231.0	2293.6	2394.3	2071.5	1675.9	1843.4	1714.5
67.5°	2337.7	2336.8	2278.7	2319.0	2578.3	2628.5	2592.7	2077.7	1575.3	1577.7	1320.1
70°	2601.4	2604.8	2594.9	2735.3	3047.5	3099.7	2804.0	1993.5	1349.3	1139.3	790.9
72.5°	2810.3	2809.4	2859.0	3221.0	3656.4	3644.7	2982.1	1738.1	968.8	615.0	378.0
75°	2675.0	2645.5	2793.0	3461.4	4011.3	3954.2	2830.6	1212.4	502.8	280.0	203.5
77.5°	1744.7	1772.7	1989.2	2859.5	3508.7	3439.2	2076.7	565.7	236.9	183.6	147.5
80°	631.8	661.3	931.4	1619.7	2417.4	2406.0	1022.7	232.5	160.2	138.7	107.5
82.5°	217.4	228.2	367.5	719.3	1364.9	1415.7	384.8	132.1	116.5	98.4	73.6
85°	85.3	97.7	168.0	346.1	688.5	693.5	155.8	79.0	81.1	64.4	40.4
87.5°	32.4	39.3	80.4	160.8	314.4	288.8	55.8	37.6	46.1	38.3	19.2
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°	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3
2.5°	768.5	772.1	779.5	784.6	790.0	791.6	792.2	793.6	794.9	794.4	794.6
5°	773.2	780.2	792.2	797.3	799.7	797.0	791.7	787.5	784.4	782.7	782.2
7.5°	781.0	790.9	803.8	802.9	797.5	785.4	771.9	761.7	753.2	750.2	748.5
10°	791.4	802.9	811.9	802.2	786.5	765.6	745.3	729.5	716.8	711.9	711.0
12.5°	804.6	816.3	818.0	797.5	771.4	742.9	715.2	694.4	675.4	669.3	667.9
15°	821.7	832.8	822.2	789.2	752.7	714.4	678.6	650.3	630.3	622.8	620.1
17.5°	839.7	850.2	823.1	775.4	728.3	680.7	635.7	606.7	583.8	575.2	574.2
20°	861.2	866.0	819.5	755.8	694.7	636.9	589.6	562.3	550.1	544.0	543.3
22.5°	887.9	882.8	811.4	729.2	652.2	586.4	547.9	535.2	532.1	530.8	531.3
25°	916.0	900.4	799.4	694.4	598.4	535.8	517.4	520.9	525.0	524.5	524.5
27.5°	947.0	918.4	780.9	648.3	538.9	494.5	496.7	509.7	515.8	515.7	515.5
30°	986.9	938.7	757.3	592.8	483.3	465.3	478.7	494.6	502.9	502.6	502.8
32.5°	1035.9	961.1	725.3	530.9	443.1	443.8	459.2	475.0	484.6	483.8	484.0
35°	1093.2	986.2	681.8	469.9	416.5	426.6	438.8	449.9	459.0	457.8	456.7
37.5°	1155.6	1010.8	624.2	415.3	394.8	410.7	420.9	422.7	427.0	423.9	421.7
40°	1215.0	1029.6	549.9	370.5	372.9	397.1	403.7	396.3	388.7	387.6	384.6
42.5°	1266.7	1035.9	474.8	334.7	349.8	382.9	387.0	371.4	357.6	351.2	348.5
45°	1321.3	1038.1	404.8	304.7	327.6	370.2	374.6	353.7	334.4	320.5	315.9
47.5°	1392.7	1054.0	350.3	282.5	310.7	361.7	368.0	339.6	314.6	294.7	290.5
50°	1486.1	1085.6	306.1	265.5	299.6	356.1	363.2	325.9	298.3	274.4	270.1
52.5°	1589.9	1114.6	270.3	251.8	288.9	346.3	357.1	316.1	283.0	255.5	251.0
55°	1662.5	1092.4	241.5	237.6	275.0	332.2	348.6	307.8	261.1	237.2	233.2
57.5°	1676.4	1016.4	219.6	222.8	258.3	314.6	335.6	289.3	249.3	229.3	225.0
60°	1638.4	910.6	203.3	209.2	240.3	292.3	311.2	276.2	237.9	220.8	217.2
62.5°	1542.9	802.2	191.3	197.0	223.5	269.8	295.9	262.5	226.4	211.1	207.6
65°	1350.1	673.5	179.7	186.2	207.9	250.3	282.2	249.8	215.0	203.3	199.9
67.5°	1019.1	504.5	168.9	174.7	194.0	233.3	267.2	237.2	204.0	196.5	192.5
70°	600.1	315.9	156.5	162.6	179.4	215.7	251.3	223.5	190.3	186.9	181.6
72.5°	279.3	190.1	142.4	148.4	161.1	192.1	230.8	205.5	174.0	166.5	159.4
75°	166.7	139.0	125.8	131.1	140.1	167.0	205.0	187.2	158.5	148.7	141.3
77.5°	124.6	106.3	107.5	113.1	120.4	146.2	181.6	172.8	146.7	139.0	134.0
80°	89.7	80.7	87.7	93.8	101.4	132.9	174.0	159.7	132.6	122.4	117.7
82.5°	59.9	58.0	66.0	72.2	79.7	116.3	163.5	139.9	113.3	100.4	89.9
85°	33.1	34.9	44.4	47.1	53.6	81.9	134.0	112.4	85.3	68.7	65.6
87.5°	13.7	16.1	23.9	23.1	28.5	48.8	88.2	67.8	54.3	40.5	31.5
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)