

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: P382731

Luminaire Tested: **GAN-SA1A-735-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382731  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1A-735-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4545.9 lumens  
Efficiency: N/A  
Efficacy: 133.7 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

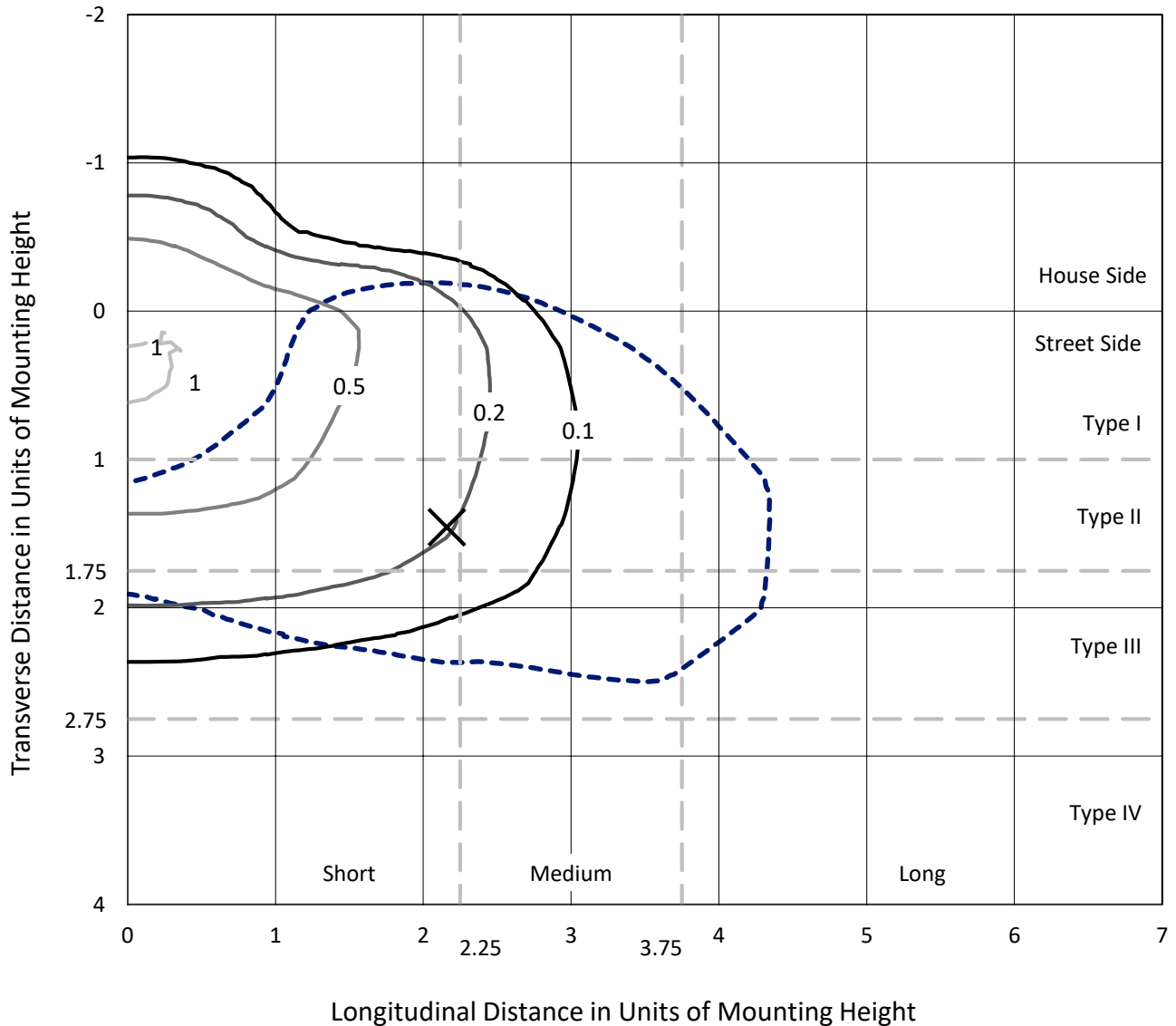
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

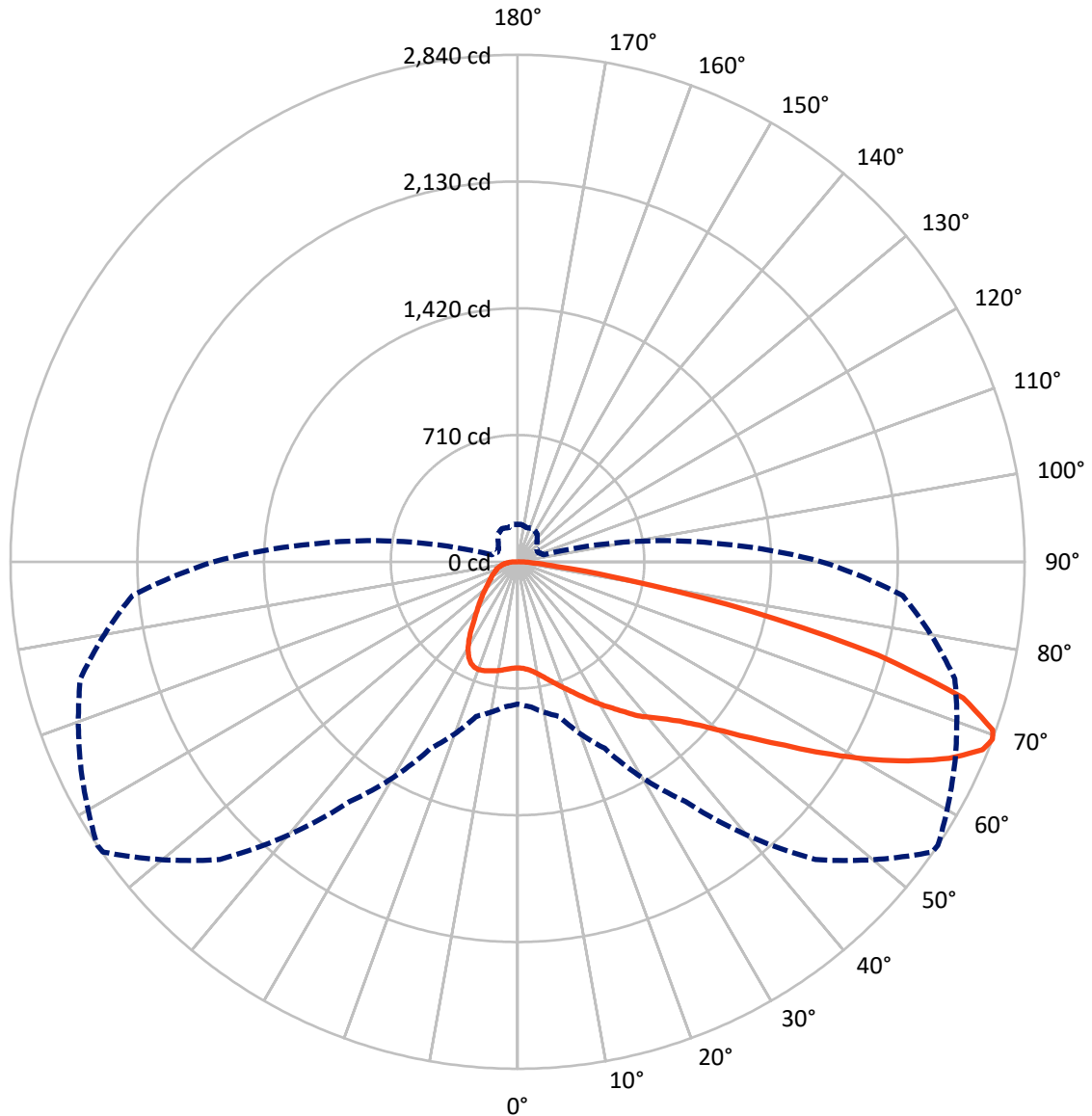
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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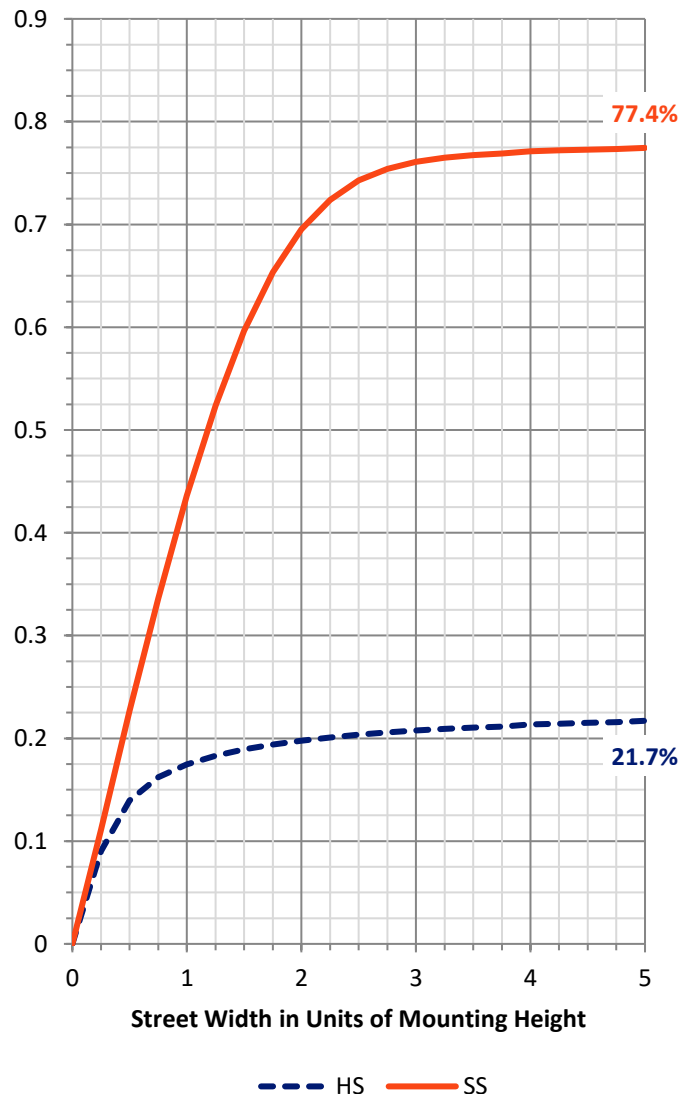
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1012.4	0.0	1012.4
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	3533.6	0.0	3533.6
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	4545.9	0.0	4545.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.4	1.3
10°-20°	187.7	4.1
20°-30°	327.7	7.2
30°-40°	470.7	10.4
40°-50°	651.4	14.3
50°-60°	954.3	21.0
60°-70°	1163.5	25.6
70°-80°	643.3	14.2
80°-90°	89.1	2.0
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°	4545.9	100.0
0°-180°	4545.9	100.0

**Coefficient of Utilization**

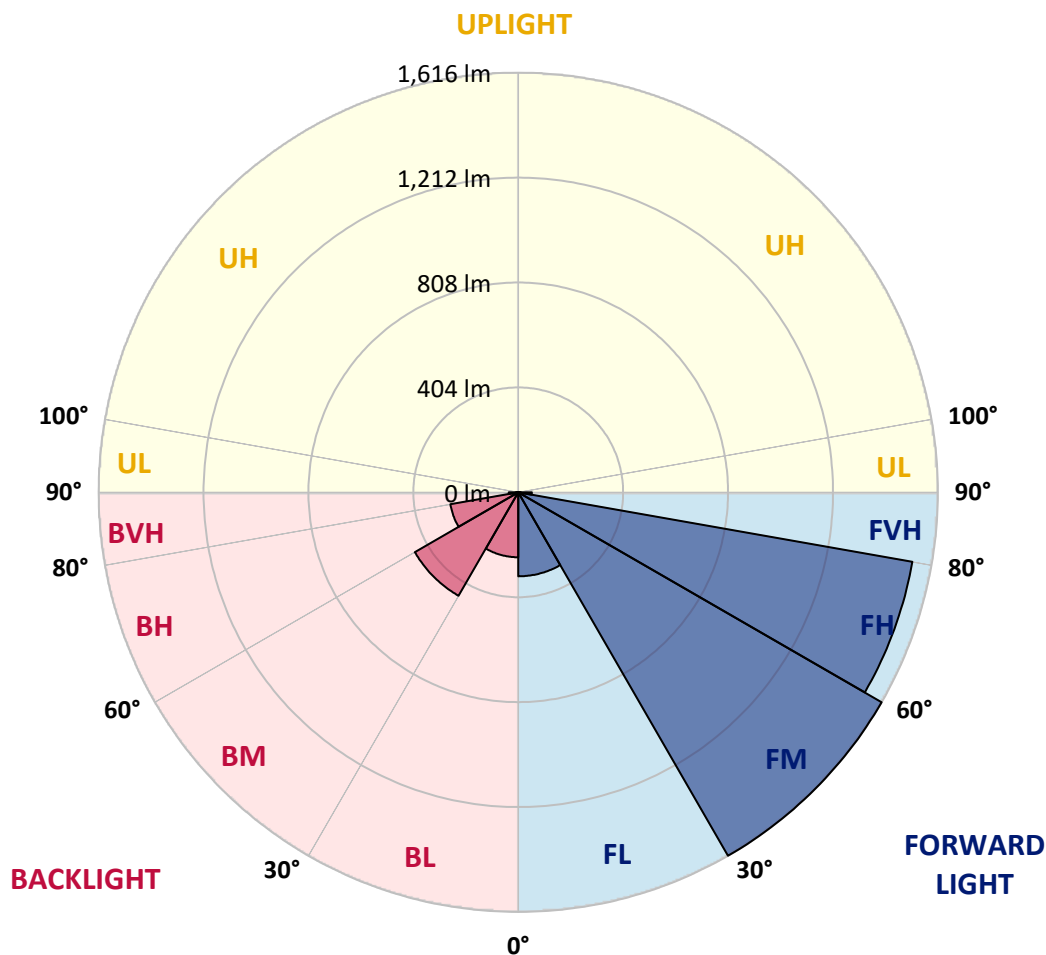


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	323.5	7.1			
FM (30°-60°)	1616.2	35.6			
FH (60°-80°)	1541.3	33.9			G1/1800
FVH (80°-90°)	52.5	1.2			G1/100
BL (0°-30°)	250.2	5.5	B1/500		
BM (30°-60°)	460.1	10.1	B1/1000		
BH (60°-80°)	265.5	5.8	B1/500		G1/500
BVH (80°-90°)	36.6	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-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	594.3	594.3	594.3	594.3	594.3	594.3	594.3	594.3	594.3	594.3	594.3
2.5°	598.1	598.7	598.2	599.5	598.1	599.0	598.2	598.2	597.8	596.4	594.8
5°	607.5	608.8	607.9	609.2	607.5	607.7	606.3	606.3	604.9	602.0	598.9
7.5°	622.2	623.6	623.0	624.2	621.9	621.9	620.0	619.9	617.1	612.2	608.6
10°	639.7	641.6	641.0	642.9	641.0	641.6	639.7	639.7	636.0	629.1	624.5
12.5°	665.2	667.6	665.9	665.7	664.9	666.2	664.7	664.3	660.8	651.4	645.2
15°	699.4	701.9	698.3	698.0	693.6	693.2	693.2	692.7	690.5	679.2	668.9
17.5°	738.7	739.5	736.4	731.4	725.7	722.1	721.7	722.9	722.9	709.7	693.3
20°	777.2	778.7	776.2	770.5	763.3	758.0	754.2	756.7	756.6	740.9	717.6
22.5°	819.2	822.5	818.7	811.6	803.1	797.1	790.5	792.7	792.9	773.7	741.3
25°	873.5	870.5	868.2	858.0	845.9	839.9	833.7	836.0	835.3	808.9	765.9
27.5°	921.6	922.2	919.2	908.4	894.4	880.9	880.6	882.0	879.7	845.5	789.1
30°	977.6	977.8	973.5	963.8	948.6	931.2	927.1	929.4	924.5	880.3	813.5
32.5°	1033.1	1034.7	1029.8	1018.1	1005.9	984.7	976.5	978.1	965.6	915.8	838.8
35°	1081.8	1084.0	1082.5	1074.6	1061.3	1043.1	1033.5	1032.5	1017.0	959.4	872.1
37.5°	1131.5	1133.5	1131.7	1125.2	1119.9	1100.6	1095.4	1095.4	1068.5	1003.8	914.6
40°	1182.5	1185.7	1183.6	1174.5	1170.0	1161.3	1148.9	1145.9	1116.7	1057.2	983.8
42.5°	1230.0	1234.0	1242.2	1236.9	1227.6	1228.9	1203.9	1202.4	1181.1	1136.2	1070.7
45°	1297.3	1303.2	1317.0	1313.0	1311.1	1304.2	1274.6	1273.2	1265.0	1242.3	1178.6
47.5°	1370.8	1378.9	1403.8	1404.6	1424.8	1411.8	1371.5	1366.7	1368.5	1369.5	1310.3
50°	1438.4	1447.3	1488.2	1507.4	1555.1	1557.9	1493.6	1489.2	1496.5	1518.1	1463.7
52.5°	1492.4	1503.7	1554.8	1614.3	1695.9	1719.1	1643.7	1640.5	1646.0	1683.2	1637.3
55°	1532.0	1544.3	1599.8	1708.3	1838.5	1879.4	1816.6	1813.4	1816.9	1864.4	1826.0
57.5°	1541.3	1544.3	1624.9	1771.5	1959.0	2057.1	2028.2	2021.9	2005.0	2046.3	2034.3
60°	1497.9	1509.9	1604.2	1793.8	2052.1	2232.4	2249.3	2241.5	2194.1	2227.9	2218.1
62.5°	1409.9	1431.2	1527.1	1759.9	2088.6	2375.5	2466.2	2456.8	2375.1	2397.0	2350.3
65°	1266.2	1275.2	1375.9	1643.2	2042.3	2467.1	2659.7	2654.9	2552.1	2517.7	2374.8
67.5°	1009.0	1026.1	1111.6	1399.5	1852.7	2456.3	2809.2	2808.7	2667.6	2562.5	2288.2
69°	797.1	814.8	896.2	1152.8	1639.3	2357.6	2834.2	2839.7	2700.2	2535.3	2164.5
70°	635.5	656.0	711.9	971.0	1450.0	2227.2	2813.4	2823.2	2693.9	2490.3	2050.2
72.5°	270.4	287.1	326.9	500.5	883.8	1663.2	2572.4	2609.6	2548.7	2279.2	1694.5
75°	118.1	123.2	141.2	204.1	392.3	905.2	2015.2	2084.1	2179.4	1926.5	1262.2
77.5°	86.4	88.7	98.5	119.8	176.1	341.9	1295.9	1336.0	1571.7	1401.9	774.2
80°	66.9	68.5	76.1	88.0	115.0	138.2	591.1	625.4	883.8	720.1	322.4
82.5°	53.3	54.3	59.7	64.8	79.4	83.7	196.2	217.7	326.2	198.9	85.3
85°	49.5	50.8	52.6	47.3	50.9	49.2	84.9	88.8	98.5	78.2	35.7
87.5°	22.4	26.5	52.2	36.8	27.1	21.6	34.7	36.3	40.9	41.0	15.8
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°	594.3	594.3	594.3	594.3	594.3	594.3	594.3	594.3	594.3	594.3	594.3
2.5°	595.7	595.3	596.0	594.1	596.5	596.4	595.5	595.9	597.4	597.3	597.4
5°	599.4	599.0	599.9	598.5	601.4	602.3	602.4	603.8	605.6	606.1	606.1
7.5°	608.4	608.4	608.9	607.0	608.9	608.8	607.9	609.3	611.1	611.2	611.1
10°	624.0	624.2	623.5	618.5	617.1	612.8	608.9	609.0	611.2	613.0	613.4
12.5°	643.8	643.1	639.7	630.8	624.2	615.6	611.6	611.4	613.6	615.0	615.5
15°	666.3	664.7	655.7	641.2	629.5	621.1	614.5	613.0	611.7	610.2	610.3
17.5°	687.7	683.8	668.9	648.6	636.4	625.2	612.5	602.3	595.3	591.2	589.9
20°	709.3	701.5	680.1	655.7	640.2	619.7	595.3	574.6	561.7	555.8	554.7
22.5°	729.0	716.6	690.6	663.1	637.2	601.2	562.8	532.8	515.0	506.9	507.6
25°	748.2	731.0	701.5	668.2	622.2	568.6	517.8	480.8	460.1	451.1	450.9
27.5°	765.2	745.6	713.5	664.0	594.1	522.3	464.4	428.3	411.1	403.5	402.1
30°	784.5	764.0	729.3	647.9	553.2	468.8	412.2	386.8	374.6	366.9	365.5
32.5°	808.2	788.8	742.4	618.5	500.7	412.8	371.5	353.8	342.6	334.1	332.5
35°	842.7	821.7	745.6	576.6	443.0	368.6	341.6	323.4	308.3	297.3	296.1
37.5°	885.9	862.9	738.1	522.3	387.2	340.0	316.6	294.3	274.7	259.1	256.5
40°	948.2	913.5	717.3	459.6	346.0	317.9	292.4	266.9	242.6	224.2	220.7
42.5°	1023.1	972.8	685.3	397.3	315.7	295.5	268.3	236.6	213.4	200.5	198.6
45°	1118.3	1034.6	641.0	342.8	286.0	273.1	242.3	213.1	198.7	189.2	187.6
47.5°	1227.0	1103.8	594.5	298.5	260.7	252.2	221.4	202.6	191.2	183.7	182.3
50°	1360.6	1181.9	545.1	262.1	235.4	226.9	211.6	196.8	187.8	181.9	180.5
52.5°	1511.2	1270.1	509.6	233.5	214.3	208.3	206.4	193.8	186.4	181.9	180.5
55°	1673.4	1359.8	471.3	209.4	196.2	198.0	203.0	194.0	189.0	183.7	181.7
57.5°	1835.9	1452.5	428.5	189.0	181.8	190.3	200.7	194.7	190.4	185.3	183.4
60°	1964.3	1511.2	362.2	172.0	170.4	181.8	195.0	189.9	184.4	184.6	184.4
62.5°	2024.3	1508.1	289.1	156.8	158.9	170.4	185.8	182.6	178.0	184.2	184.6
65°	1990.6	1432.9	225.1	143.0	146.7	158.5	176.5	179.0	180.5	192.3	193.9
67.5°	1849.3	1286.7	174.3	130.9	135.6	150.4	177.5	195.0	197.0	209.4	209.2
69°	1703.2	1149.4	151.5	124.6	130.1	152.4	189.7	205.1	197.5	210.6	208.8
70°	1580.7	1040.9	139.3	120.4	127.6	155.9	197.8	205.0	195.2	206.4	203.3
72.5°	1217.4	748.9	118.1	112.6	119.1	149.2	200.1	200.5	189.7	191.8	186.5
75°	835.0	473.2	103.0	101.9	106.3	134.5	192.6	191.5	175.4	172.2	167.9
77.5°	460.5	240.4	87.6	91.8	94.7	119.1	175.0	173.5	160.2	153.6	152.0
80°	177.6	105.3	73.9	81.6	83.5	103.2	153.5	152.0	140.9	132.5	130.1
82.5°	67.1	55.1	61.1	70.6	70.0	85.2	130.0	129.2	118.4	106.0	102.3
85°	31.0	33.1	48.3	58.2	53.8	63.1	104.0	105.4	92.2	77.5	77.5
87.5°	13.1	18.4	34.3	44.0	36.1	42.6	76.3	72.8	66.9	46.4	43.5
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)