

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: P382721

Luminaire Tested: **GAN-SA1A-735-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382721  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1A-735-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4319.6 lumens  
Efficiency: N/A  
Efficacy: 127.0 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

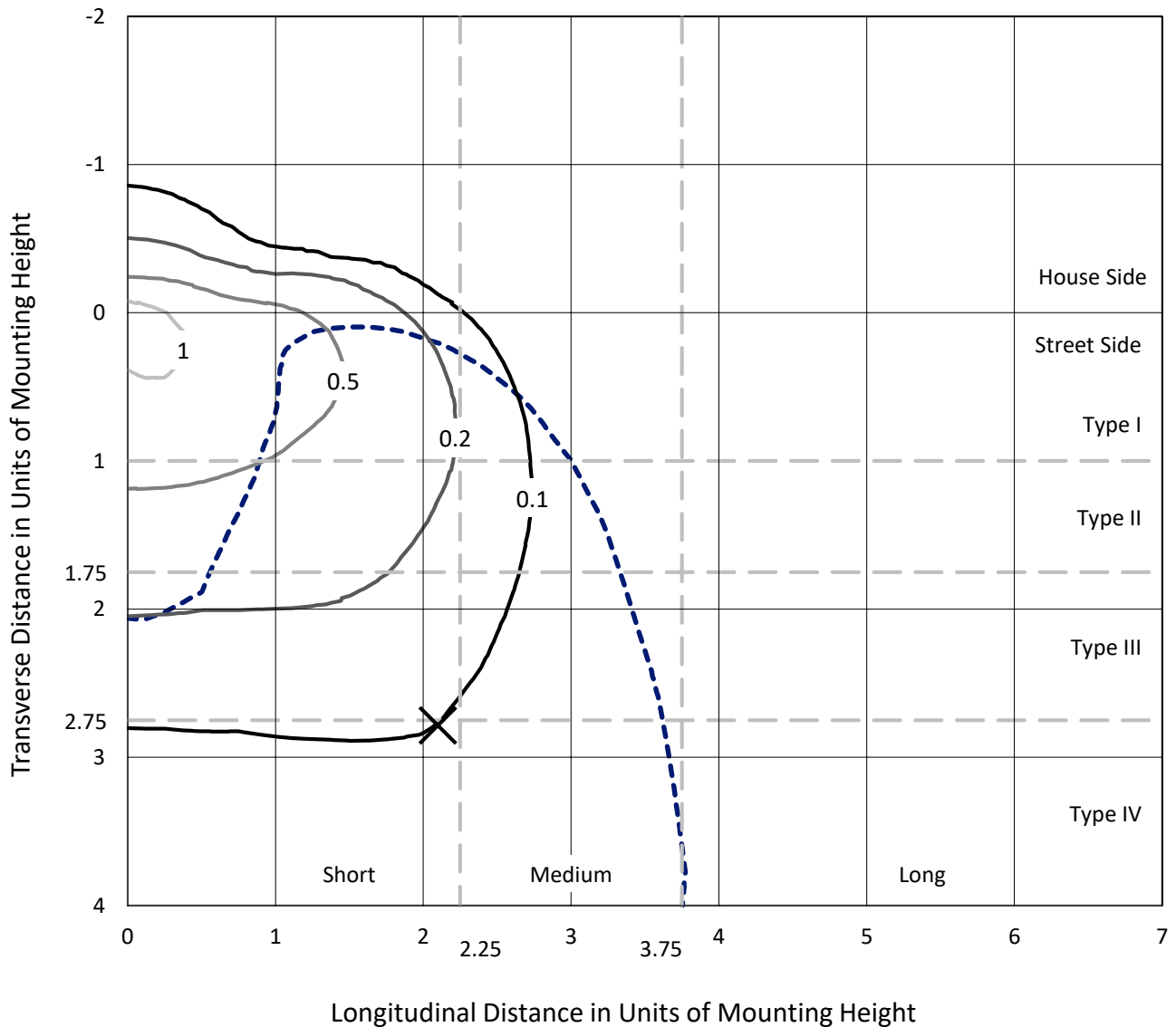
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

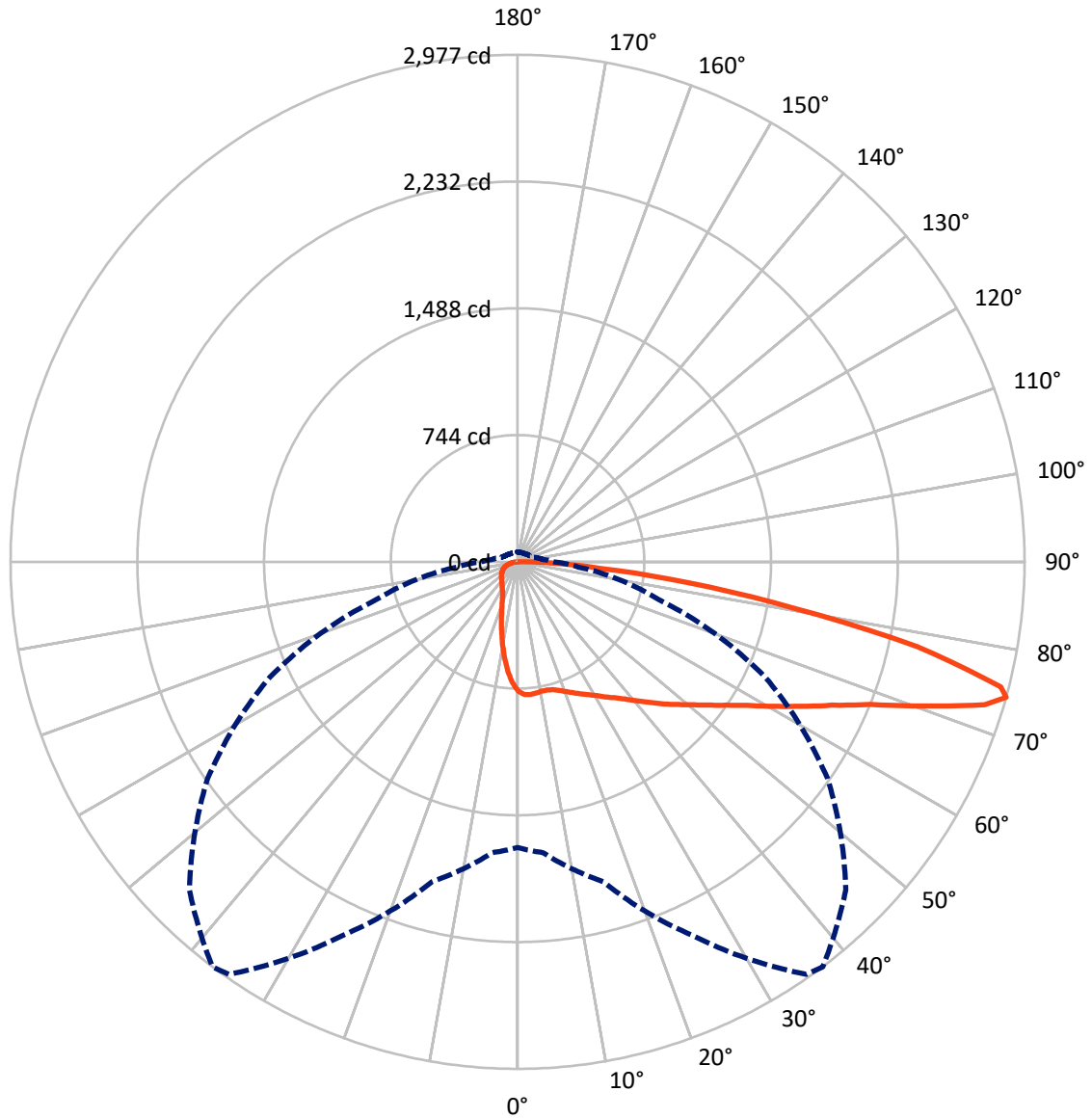
× Max cd  
 - - - 1/2 Max cd



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 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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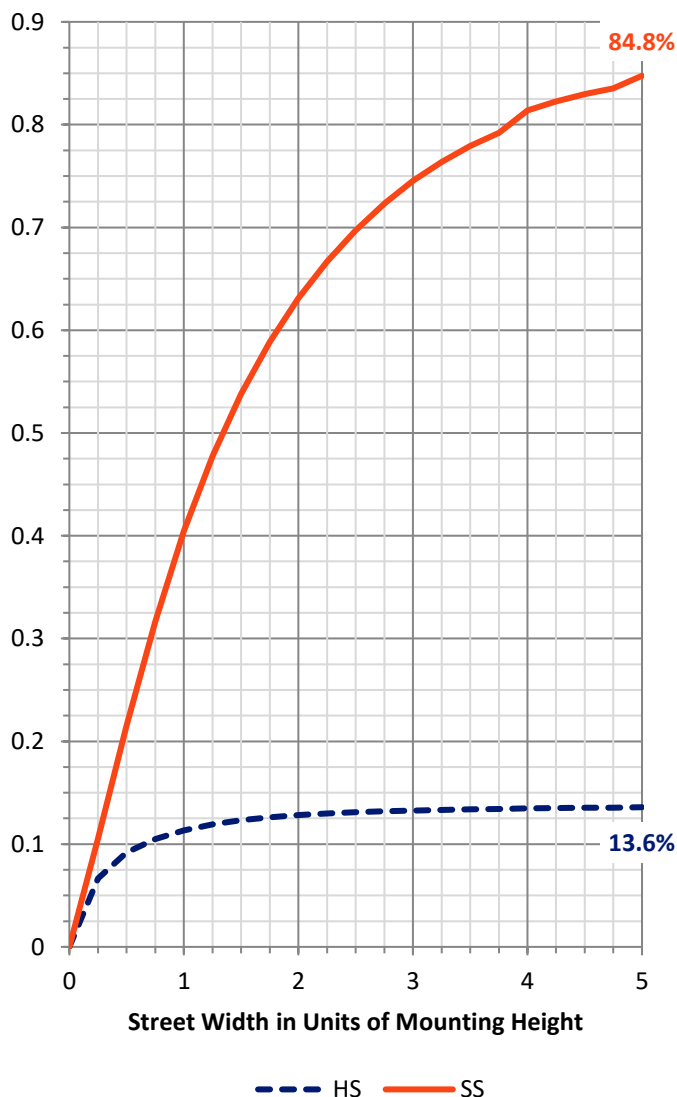
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	594.3	0.0	594.3
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	3725.2	0.0	3725.2
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	4319.6	0.0	4319.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.0	1.6
10°-20°	171.8	4.0
20°-30°	264.7	6.1
30°-40°	384.9	8.9
40°-50°	566.5	13.1
50°-60°	795.6	18.4
60°-70°	1007.0	23.3
70°-80°	886.7	20.5
80°-90°	175.3	4.1
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°	4319.6	100.0
0°-180°	4319.6	100.0

**Coefficient of Utilization**



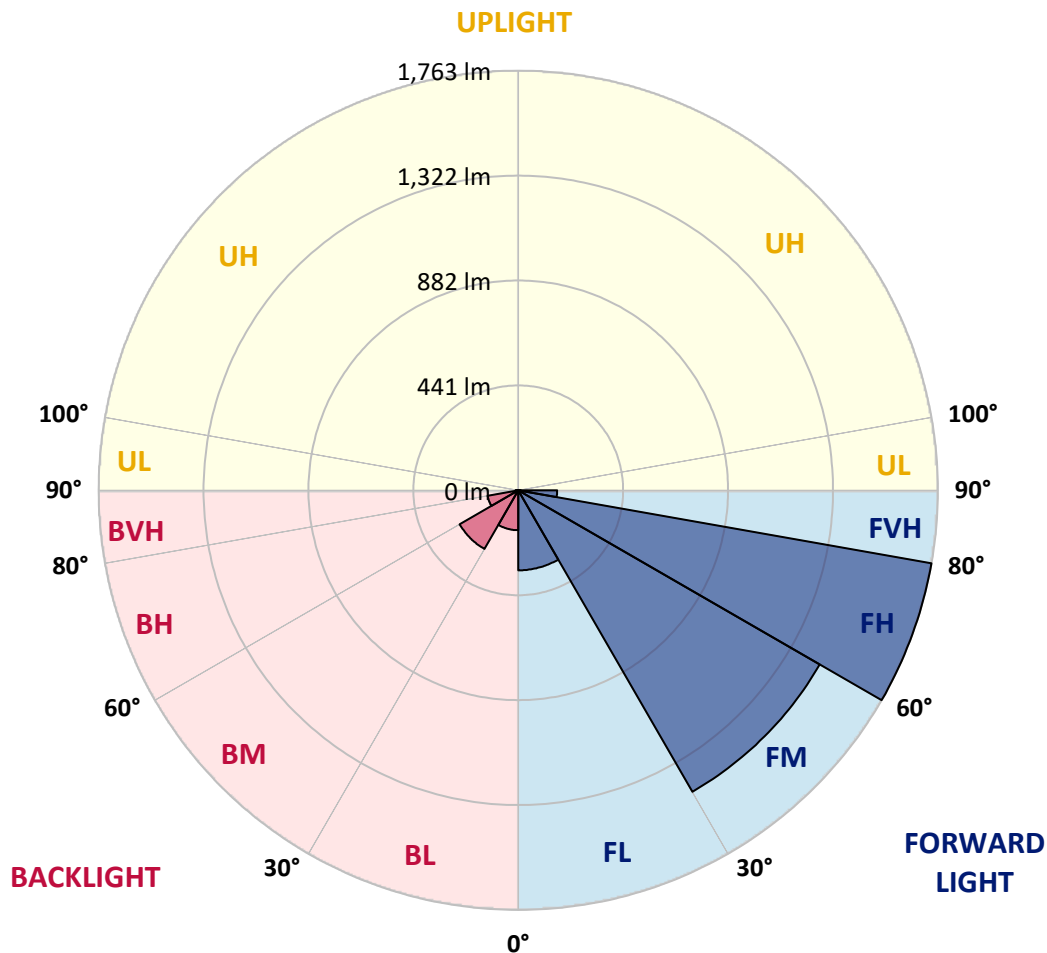
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	336.1	7.8			
FM (30°-60°)	1462.6	33.9			
FH (60°-80°)	1763.0	40.8			G1/1800
FVH (80°-90°)	163.4	3.8			G2/225
BL (0°-30°)	167.4	3.9	B1/500		
BM (30°-60°)	284.4	6.6	B1/1000		
BH (60°-80°)	130.6	3.0	B1/500		G1/500
BVH (80°-90°)	11.9	0.3			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°	35°	37°	45°	55°	65°	75°	85°
0°	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1
2.5°	787.2	787.3	787.2	785.9	783.0	780.5	778.6	775.7	769.3	764.4	757.2
5°	794.6	793.7	793.0	790.8	786.2	783.4	779.6	774.2	763.7	753.9	742.1
7.5°	791.1	790.0	788.6	785.9	780.7	778.4	773.1	765.9	753.3	740.6	723.5
10°	780.3	780.0	779.3	778.8	774.3	772.5	767.6	760.0	747.6	732.0	712.1
12.5°	768.2	769.0	771.4	774.7	772.6	771.8	768.7	763.5	750.7	734.0	709.9
15°	760.6	762.8	769.3	777.7	779.3	779.1	778.3	775.0	761.4	742.8	714.9
17.5°	758.1	761.5	774.0	787.9	792.7	793.8	794.1	788.4	773.3	753.6	719.9
20°	762.8	767.2	785.5	804.5	812.2	812.9	811.5	801.4	784.5	762.9	722.6
22.5°	777.1	781.0	803.8	825.4	834.1	835.0	830.9	815.8	796.4	773.8	726.4
25°	804.6	809.5	832.3	853.8	858.3	858.5	852.6	833.6	811.9	789.2	734.6
27.5°	840.5	845.4	866.0	886.9	884.5	883.1	875.1	856.2	832.2	810.4	749.2
30°	880.5	885.9	905.4	920.3	914.5	911.7	905.2	880.9	860.3	839.3	771.6
32.5°	922.0	926.8	943.8	954.0	946.7	945.5	935.6	913.4	897.0	883.4	807.8
35°	964.3	967.9	984.6	990.4	980.6	980.4	977.7	957.3	946.9	953.3	860.5
37.5°	1007.7	1008.7	1022.9	1023.3	1020.4	1021.6	1024.5	1011.7	1014.5	1034.5	928.9
40°	1046.4	1048.8	1059.2	1062.3	1067.4	1071.7	1086.1	1077.7	1100.1	1135.4	1014.2
42.5°	1075.0	1079.8	1096.3	1104.5	1120.8	1127.5	1147.9	1155.7	1200.7	1253.6	1115.4
45°	1099.2	1106.5	1133.1	1150.0	1177.6	1189.3	1218.5	1244.5	1314.3	1381.9	1222.1
47.5°	1125.4	1134.6	1168.0	1200.2	1237.7	1250.9	1304.0	1342.9	1435.6	1511.0	1322.7
50°	1163.9	1171.0	1203.6	1254.2	1300.9	1318.0	1391.5	1447.3	1558.9	1633.8	1409.9
52.5°	1217.5	1214.8	1242.4	1313.4	1376.1	1397.1	1484.9	1558.4	1683.8	1745.1	1483.6
55°	1271.6	1267.0	1286.4	1375.3	1463.7	1485.8	1587.7	1669.9	1802.6	1845.2	1540.0
57.5°	1331.6	1323.0	1339.3	1445.2	1563.6	1589.9	1703.0	1788.5	1919.5	1926.2	1575.9
60°	1393.6	1381.9	1400.1	1531.7	1690.3	1721.4	1837.8	1904.1	2029.7	1991.0	1587.5
62.5°	1447.8	1439.5	1467.7	1628.4	1833.2	1867.3	1970.1	2027.0	2138.3	2017.9	1545.8
65°	1495.1	1496.4	1545.2	1737.1	1992.5	2028.9	2122.0	2178.6	2223.8	2002.0	1448.3
67.5°	1551.6	1559.3	1642.4	1880.0	2193.0	2232.9	2342.9	2343.9	2271.6	1908.2	1256.2
70°	1633.8	1649.9	1776.2	2078.5	2478.2	2533.0	2617.8	2440.9	2204.5	1654.1	988.4
72.5°	1706.9	1736.8	1918.4	2305.5	2825.8	2867.3	2778.7	2384.9	1924.0	1239.6	615.8
74°	1677.3	1714.2	1944.2	2417.4	2956.5	2976.5	2724.4	2221.5	1604.2	858.5	357.9
75°	1613.3	1653.5	1906.5	2416.2	2940.0	2928.9	2593.2	2034.8	1321.2	585.5	238.1
77.5°	1302.0	1344.5	1606.5	2070.8	2410.7	2400.1	1992.0	1365.0	578.7	192.0	121.0
80°	757.0	789.4	997.2	1315.1	1625.6	1644.6	1310.0	675.5	227.7	107.9	82.0
82.5°	336.3	358.6	481.7	671.4	980.9	1005.4	686.1	353.9	140.6	65.6	49.3
85°	220.6	237.2	292.4	319.7	467.2	483.8	335.8	275.6	92.8	36.1	36.2
87.5°	158.7	174.7	217.2	189.8	214.3	203.0	182.8	255.1	37.3	20.6	12.2
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°	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1
2.5°	753.9	751.5	746.1	735.6	729.9	725.0	717.0	712.3	710.1	709.9	710.9
5°	735.3	729.6	715.4	698.1	684.2	671.6	656.0	646.5	639.8	635.9	636.9
7.5°	713.5	704.6	682.5	654.7	632.5	608.0	583.8	569.4	558.1	549.7	551.3
10°	698.6	686.4	653.9	614.1	577.1	541.5	508.3	488.3	472.5	460.3	461.2
12.5°	693.5	677.1	632.2	579.0	527.1	478.3	434.8	404.3	388.0	374.2	375.2
15°	694.3	672.2	614.0	547.3	482.1	420.7	368.0	332.2	310.1	300.5	300.7
17.5°	694.9	666.6	594.8	513.4	437.5	366.8	309.5	273.3	252.4	243.6	243.8
20°	692.9	657.5	571.0	474.4	390.9	317.4	261.9	231.1	215.3	208.5	208.5
22.5°	690.4	646.7	544.3	435.3	345.0	274.5	227.8	204.4	195.3	190.7	190.5
25°	691.6	638.6	516.9	395.2	302.7	240.2	205.1	189.6	183.5	180.6	180.4
27.5°	698.1	634.8	491.6	355.1	265.7	214.5	189.8	179.0	174.9	173.2	173.2
30°	709.9	634.8	465.3	321.0	234.9	195.5	178.2	170.8	168.0	166.7	166.7
32.5°	730.7	638.3	439.9	287.3	210.4	180.6	168.4	163.4	161.3	160.7	160.7
35°	766.3	650.1	415.1	255.3	190.7	168.4	159.2	156.2	154.7	154.6	155.0
37.5°	816.3	674.3	391.8	231.8	176.6	158.5	151.4	149.1	148.2	149.0	149.6
40°	879.3	707.2	370.7	210.4	166.0	150.6	144.2	142.7	142.2	143.4	144.2
42.5°	955.4	751.7	353.3	195.1	157.8	143.9	138.1	136.4	135.9	137.1	138.3
45°	1037.7	799.5	341.1	183.7	151.4	138.9	132.8	130.9	130.0	130.5	131.9
47.5°	1112.5	844.6	336.3	175.6	145.3	134.7	128.1	125.7	124.2	123.9	124.9
50°	1175.7	878.3	338.5	170.8	140.5	130.0	123.5	120.8	118.5	117.2	117.9
52.5°	1221.6	899.4	340.7	168.6	136.7	124.7	118.5	116.0	112.9	110.6	110.6
55°	1255.0	904.3	336.0	166.9	133.8	119.1	112.9	110.5	107.4	104.8	104.5
57.5°	1268.1	890.6	318.5	164.5	131.8	113.8	106.9	105.2	102.6	99.5	99.4
60°	1250.4	848.3	284.7	159.3	129.2	109.4	101.1	99.9	98.6	95.7	95.6
62.5°	1179.5	755.5	241.0	148.8	124.0	104.7	95.6	96.1	96.3	94.4	94.0
65°	1051.0	628.0	198.4	135.1	116.3	99.0	89.9	92.8	94.5	94.2	93.7
67.5°	864.1	488.7	168.1	120.6	106.0	91.3	83.8	87.2	88.6	89.6	89.3
70°	641.4	344.7	139.1	105.5	93.7	82.2	75.9	77.6	76.7	77.9	78.3
72.5°	357.5	206.8	113.4	90.3	81.0	71.5	67.1	66.8	64.8	64.8	64.8
74°	214.5	151.7	99.7	80.8	73.2	64.6	60.7	59.3	57.5	57.7	57.5
75°	172.5	130.4	91.5	74.5	67.7	60.4	56.6	54.8	53.4	53.4	53.3
77.5°	109.0	99.0	73.7	59.3	54.1	49.7	47.1	44.7	44.7	44.6	44.4
80°	82.3	78.8	57.4	44.9	41.5	38.2	36.5	35.5	35.5	35.9	35.8
82.5°	56.5	59.3	40.3	31.3	29.7	27.2	26.9	27.1	26.6	26.0	25.9
85°	41.3	44.6	27.2	19.7	18.1	16.6	17.8	18.4	17.6	16.3	15.6
87.5°	15.8	29.3	14.6	8.2	7.6	6.5	7.6	7.9	8.5	6.7	6.9
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)