

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: P319995

Luminaire Tested: **GAN-SA1B-740-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319995
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-SA1B-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA 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: 5685 lumens
Efficiency: N/A
Efficacy: 129.2 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

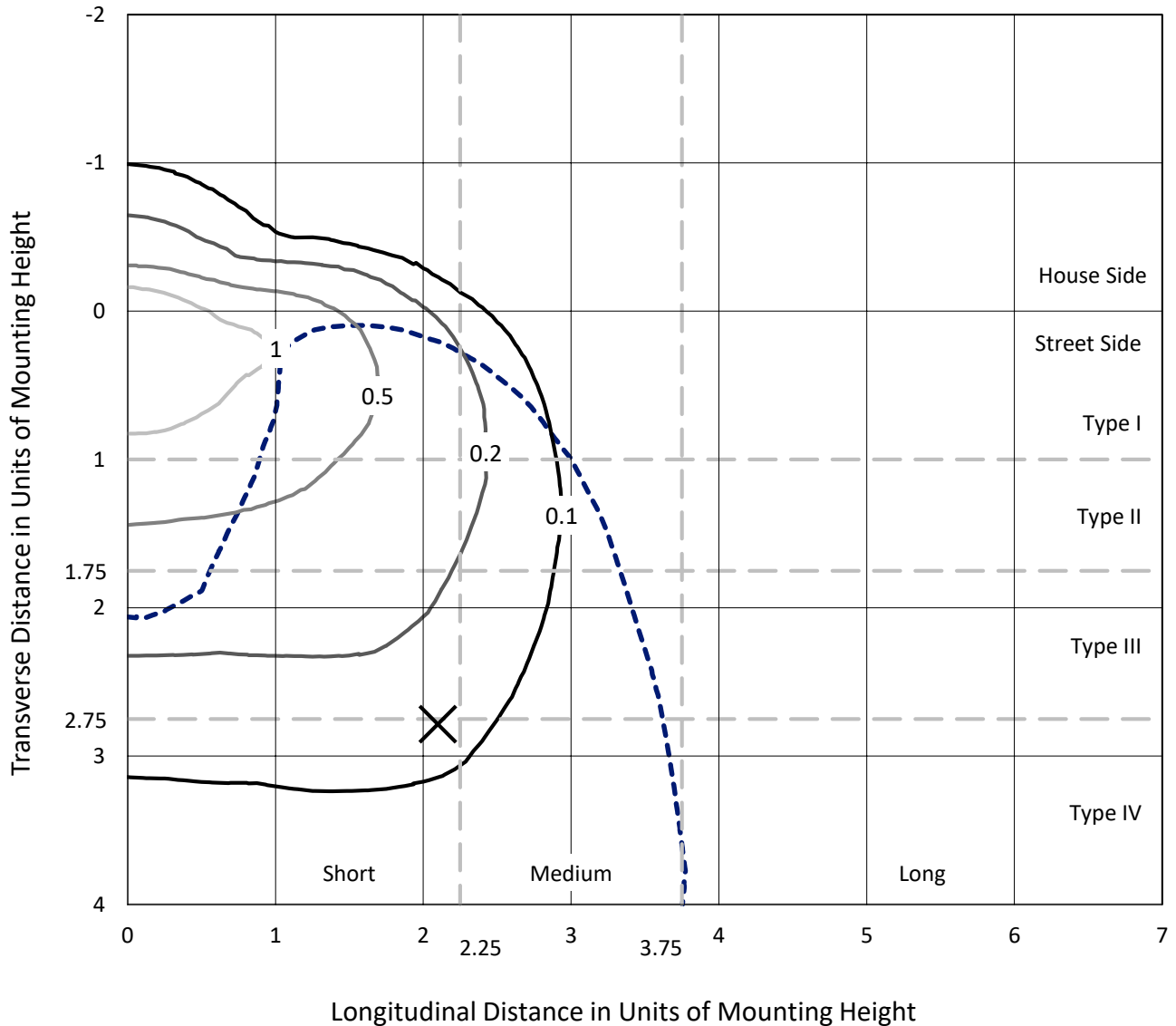
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

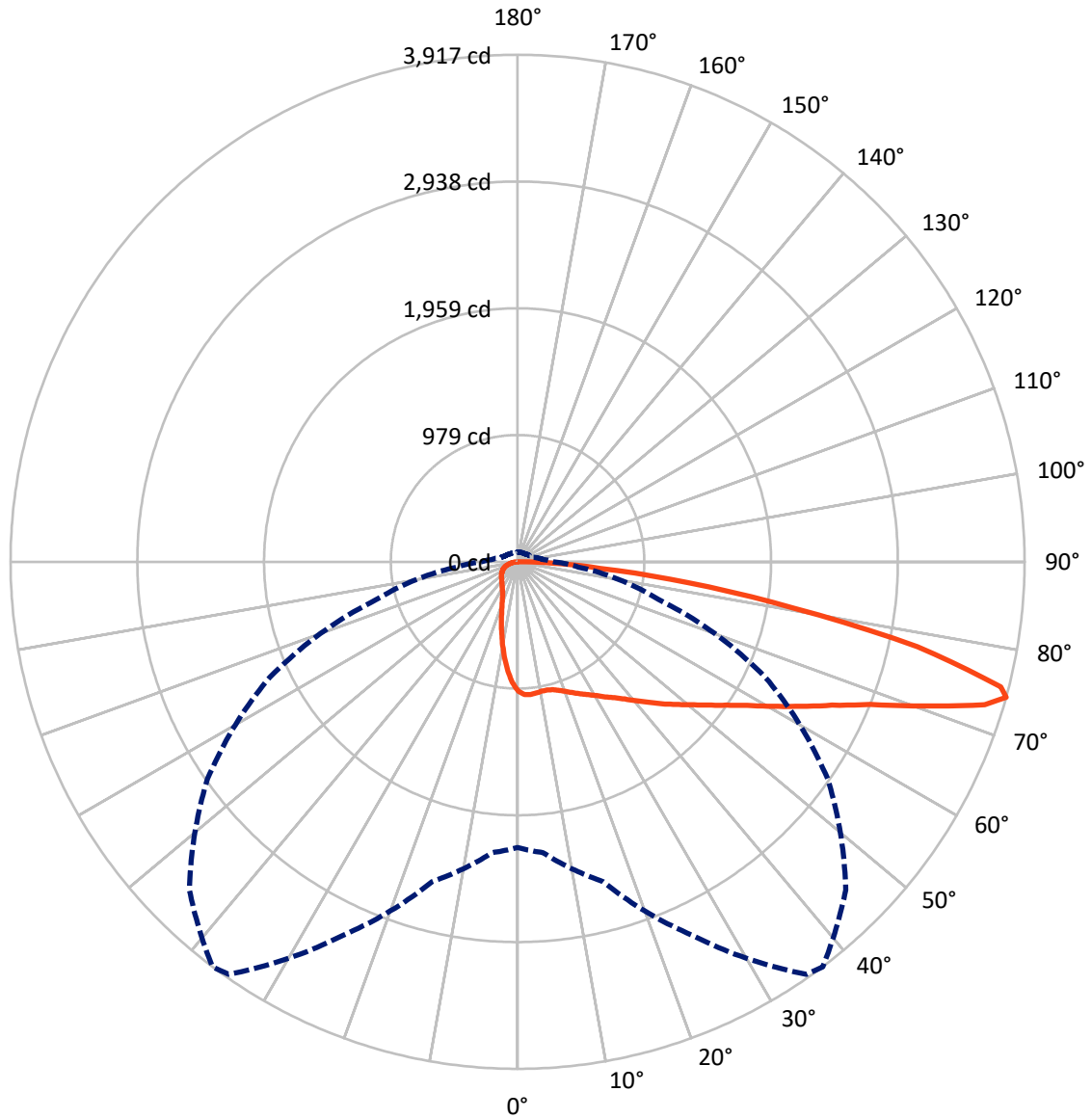
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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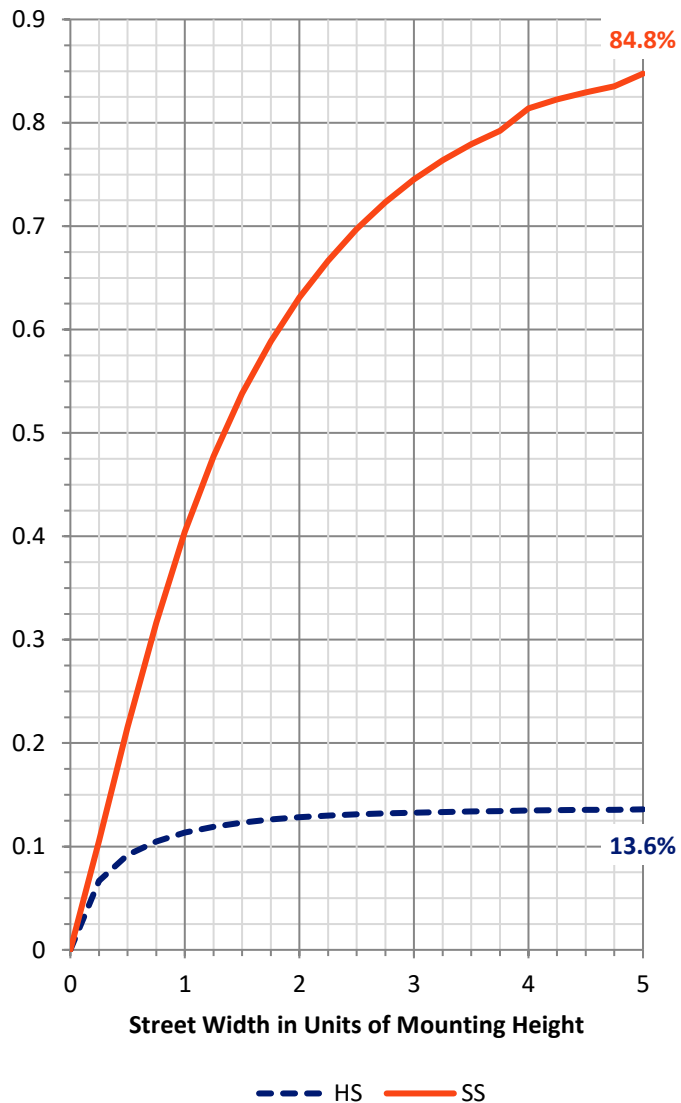
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	782.2	0.0	782.2
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	4902.8	0.0	4902.8
	% Fixture	86.2	0.0	86.2
Total	Lumens	5685.0	0.0	5685.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	1.6
10°-20°	226.1	4.0
20°-30°	348.4	6.1
30°-40°	506.6	8.9
40°-50°	745.6	13.1
50°-60°	1047.1	18.4
60°-70°	1325.3	23.3
70°-80°	1167.0	20.5
80°-90°	230.7	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°	5685.0	100.0
0°-180°	5685.0	100.0

Coefficient of Utilization



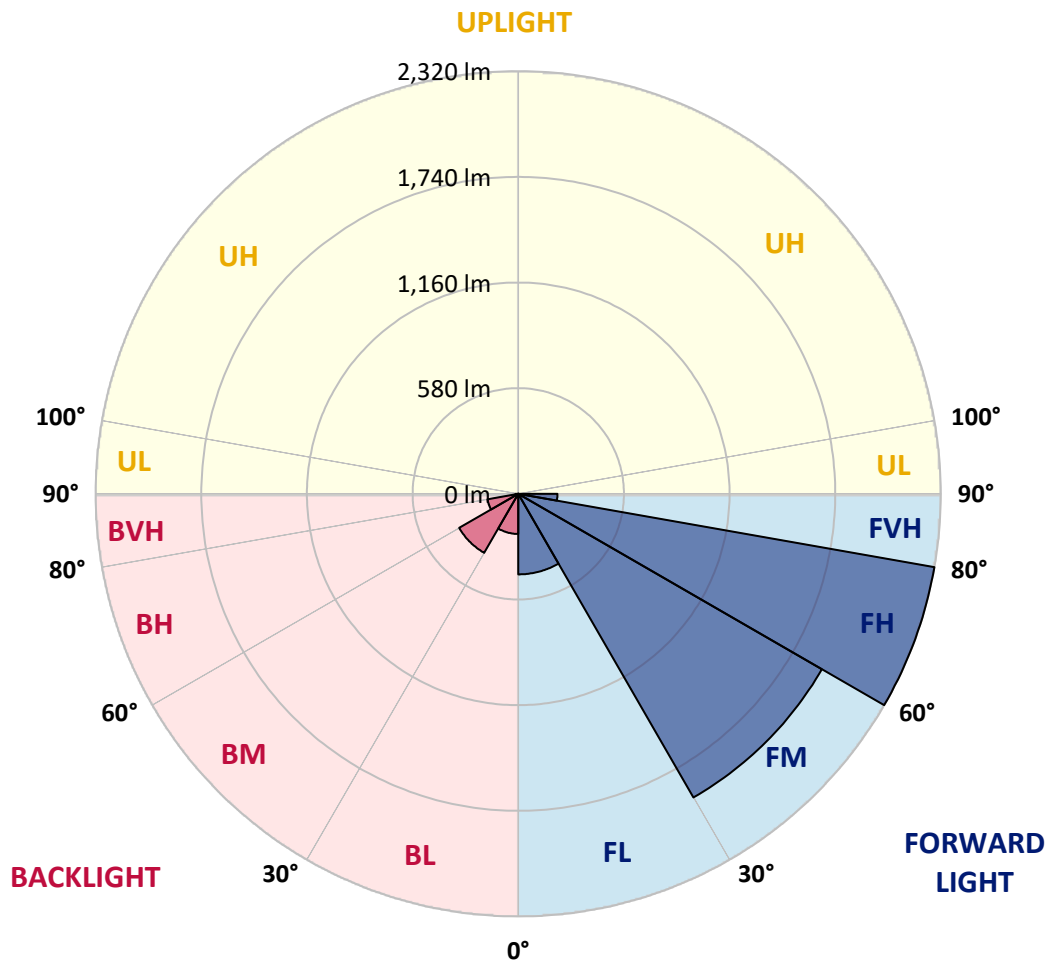
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	442.4	7.8			
FM (30°-60°)	1925.0	33.9			
FH (60°-80°)	2320.3	40.8			G2/5000
FVH (80°-90°)	215.1	3.8			G2/225
BL (0°-30°)	220.3	3.9	B1/500		
BM (30°-60°)	374.3	6.6	B1/1000		
BH (60°-80°)	171.9	3.0	B1/500		G1/500
BVH (80°-90°)	15.6	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°	1001.7	1001.7	1001.7	1001.7	1001.7	1001.7	1001.7	1001.7	1001.7	1001.7	1001.7
2.5°	1035.9	1036.1	1035.9	1034.3	1030.5	1027.3	1024.7	1020.9	1012.5	1006.1	996.5
5°	1045.7	1044.5	1043.7	1040.7	1034.7	1031.1	1026.1	1018.9	1005.1	992.3	976.6
7.5°	1041.1	1039.7	1037.9	1034.3	1027.5	1024.5	1017.5	1008.1	991.5	974.6	952.2
10°	1026.9	1026.5	1025.7	1024.9	1019.1	1016.7	1010.3	1000.3	983.9	963.4	937.2
12.5°	1011.1	1012.1	1015.3	1019.5	1016.9	1015.7	1011.7	1004.9	988.1	966.0	934.4
15°	1001.1	1003.9	1012.5	1023.5	1025.7	1025.3	1024.3	1019.9	1002.1	977.6	940.8
17.5°	997.7	1002.3	1018.7	1036.9	1043.3	1044.7	1045.1	1037.5	1017.7	991.9	947.4
20°	1003.9	1009.7	1033.7	1058.7	1069.0	1069.8	1068.0	1054.7	1032.5	1004.1	951.0
22.5°	1022.7	1027.9	1057.9	1086.2	1097.8	1099.0	1093.6	1073.6	1048.1	1018.5	956.0
25°	1058.9	1065.4	1095.4	1123.6	1129.6	1129.8	1122.0	1097.2	1068.6	1038.7	966.8
27.5°	1106.2	1112.6	1139.7	1167.3	1164.1	1162.3	1151.7	1126.8	1095.2	1066.6	986.1
30°	1158.9	1165.9	1191.5	1211.1	1203.5	1199.9	1191.3	1159.3	1132.2	1104.6	1015.5
32.5°	1213.3	1219.8	1242.2	1255.6	1246.0	1244.4	1231.4	1202.1	1180.5	1162.7	1063.2
35°	1269.2	1273.8	1295.8	1303.5	1290.6	1290.2	1286.6	1259.8	1246.2	1254.6	1132.4
37.5°	1326.3	1327.5	1346.3	1346.7	1342.9	1344.5	1348.3	1331.5	1335.3	1361.5	1222.6
40°	1377.2	1380.4	1394.0	1398.2	1404.8	1410.4	1429.4	1418.4	1447.8	1494.3	1334.7
42.5°	1414.8	1421.0	1442.8	1453.7	1475.1	1483.9	1510.7	1520.9	1580.2	1649.9	1468.1
45°	1446.6	1456.3	1491.3	1513.5	1549.8	1565.2	1603.6	1637.9	1729.8	1818.7	1608.4
47.5°	1481.1	1493.3	1537.2	1579.6	1628.9	1646.3	1716.2	1767.4	1889.4	1988.5	1740.8
50°	1531.7	1541.2	1584.0	1650.7	1712.2	1734.6	1831.3	1904.8	2051.6	2150.3	1855.6
52.5°	1602.4	1598.8	1635.1	1728.6	1811.1	1838.7	1954.3	2051.0	2216.0	2296.7	1952.5
55°	1673.5	1667.5	1693.0	1810.1	1926.5	1955.5	2089.7	2197.8	2372.4	2428.5	2026.8
57.5°	1752.6	1741.2	1762.6	1902.0	2057.8	2092.5	2241.3	2353.8	2526.2	2535.0	2074.0
60°	1834.1	1818.7	1842.7	2016.0	2224.6	2265.5	2418.7	2506.0	2671.2	2620.3	2089.3
62.5°	1905.4	1894.6	1931.7	2143.1	2412.7	2457.5	2592.9	2667.8	2814.2	2655.8	2034.4
65°	1967.7	1969.5	2033.6	2286.1	2622.3	2670.2	2792.8	2867.2	2926.7	2634.8	1906.0
67.5°	2042.0	2052.2	2161.6	2474.3	2886.3	2938.7	3083.5	3084.7	2989.6	2511.4	1653.3
70°	2150.3	2171.4	2337.6	2735.5	3261.6	3333.6	3445.4	3212.5	2901.3	2177.0	1300.9
72.5°	2246.5	2285.7	2524.8	3034.3	3718.9	3773.6	3657.1	3138.8	2532.2	1631.5	810.4
74°	2207.4	2256.1	2558.9	3181.4	3891.2	3917.4	3585.6	2923.7	2111.3	1129.8	471.0
75°	2123.3	2176.2	2509.2	3180.0	3869.3	3854.7	3412.9	2678.0	1738.8	770.6	313.4
77.5°	1713.6	1769.5	2114.3	2725.5	3172.6	3158.8	2621.7	1796.5	761.6	252.7	159.2
80°	996.3	1038.9	1312.5	1730.8	2139.3	2164.4	1724.2	888.9	299.6	142.0	107.9
82.5°	442.6	472.0	634.0	883.5	1291.0	1323.3	902.9	465.8	185.0	86.3	64.9
85°	290.4	312.2	384.9	420.7	614.8	636.8	442.0	362.7	122.2	47.5	47.7
87.5°	208.9	229.9	286.0	249.7	282.2	267.1	240.5	335.6	49.1	27.0	16.0
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°	1001.7	1001.7	1001.7	1001.7	1001.7	1001.7	1001.7	1001.7	1001.7	1001.7	1001.7
2.5°	992.3	989.1	981.8	968.2	960.6	954.2	943.6	937.4	934.6	934.4	935.6
5°	967.6	960.2	941.6	918.8	900.5	883.9	863.3	850.9	842.1	836.9	838.3
7.5°	939.0	927.4	898.1	861.7	832.5	800.2	768.4	749.4	734.5	723.5	725.5
10°	919.4	903.3	860.7	808.2	759.6	712.7	668.9	642.6	621.8	605.8	607.0
12.5°	912.8	891.1	832.1	762.0	693.7	629.6	572.3	532.1	510.6	492.4	493.8
15°	913.8	884.7	808.0	720.3	634.4	553.7	484.2	437.2	408.1	395.5	395.7
17.5°	914.6	877.3	782.8	675.7	575.7	482.8	407.3	359.7	332.2	320.6	320.8
20°	912.0	865.3	751.6	624.4	514.5	417.7	344.6	304.2	283.4	274.3	274.3
22.5°	908.6	851.1	716.3	572.9	454.0	361.3	299.8	268.9	256.9	250.9	250.7
25°	910.2	840.5	680.3	520.1	398.3	316.2	269.9	249.5	241.5	237.7	237.5
27.5°	918.8	835.5	647.0	467.4	349.6	282.4	249.9	235.5	230.3	227.9	227.9
30°	934.4	835.5	612.4	422.5	309.2	257.3	234.5	224.7	221.1	219.5	219.5
32.5°	961.6	840.1	578.9	378.1	277.0	237.7	221.7	215.1	212.3	211.5	211.5
35°	1008.5	855.7	546.3	336.0	250.9	221.7	209.5	205.7	203.7	203.5	204.1
37.5°	1074.4	887.5	515.7	305.0	232.5	208.7	199.3	196.2	195.0	196.0	196.9
40°	1157.3	930.8	487.8	277.0	218.5	198.3	189.8	187.8	187.2	188.6	189.8
42.5°	1257.4	989.3	465.0	256.7	207.7	189.4	181.8	179.4	178.8	180.4	182.0
45°	1365.7	1052.1	449.0	241.7	199.3	182.8	174.8	172.2	171.0	171.8	173.6
47.5°	1464.3	1111.6	442.6	231.1	191.2	177.2	168.6	165.4	163.4	163.0	164.4
50°	1547.4	1155.9	445.6	224.7	184.8	171.0	162.6	159.0	156.0	154.2	155.2
52.5°	1607.8	1183.7	448.4	221.9	179.8	164.2	156.0	152.6	148.6	145.6	145.6
55°	1651.7	1190.1	442.2	219.7	176.0	156.8	148.6	145.4	141.4	138.0	137.6
57.5°	1668.9	1172.1	419.1	216.5	173.4	149.8	140.8	138.4	135.0	131.0	130.8
60°	1645.7	1116.4	374.7	209.7	170.0	144.0	133.0	131.4	129.8	126.0	125.8
62.5°	1552.4	994.3	317.2	195.8	163.2	137.8	125.8	126.6	126.8	124.2	123.8
65°	1383.2	826.5	261.1	177.8	153.0	130.4	118.4	122.2	124.4	124.0	123.4
67.5°	1137.2	643.2	221.3	158.8	139.6	120.2	110.3	114.7	116.5	118.0	117.5
70°	844.1	453.6	183.0	138.8	123.4	108.1	99.9	102.1	100.9	102.5	103.1
72.5°	470.6	272.1	149.2	118.8	106.5	94.1	88.3	87.9	85.3	85.3	85.3
74°	282.4	199.7	131.2	106.3	96.3	84.9	79.9	78.1	75.7	75.9	75.7
75°	227.1	171.6	120.4	98.1	89.1	79.5	74.5	72.1	70.3	70.3	70.1
77.5°	143.4	130.4	96.9	78.1	71.3	65.5	62.1	58.9	58.9	58.7	58.5
80°	108.3	103.7	75.5	59.1	54.7	50.3	48.1	46.7	46.7	47.3	47.1
82.5°	74.3	78.1	53.1	41.3	39.0	35.8	35.4	35.6	35.0	34.2	34.0
85°	54.3	58.7	35.8	26.0	23.8	21.8	23.4	24.2	23.2	21.4	20.6
87.5°	20.8	38.4	19.2	10.8	10.0	8.6	10.0	10.4	11.2	8.8	9.0
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)