

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: P317715

Luminaire Tested: **GAN-SA1B-730-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5571 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
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

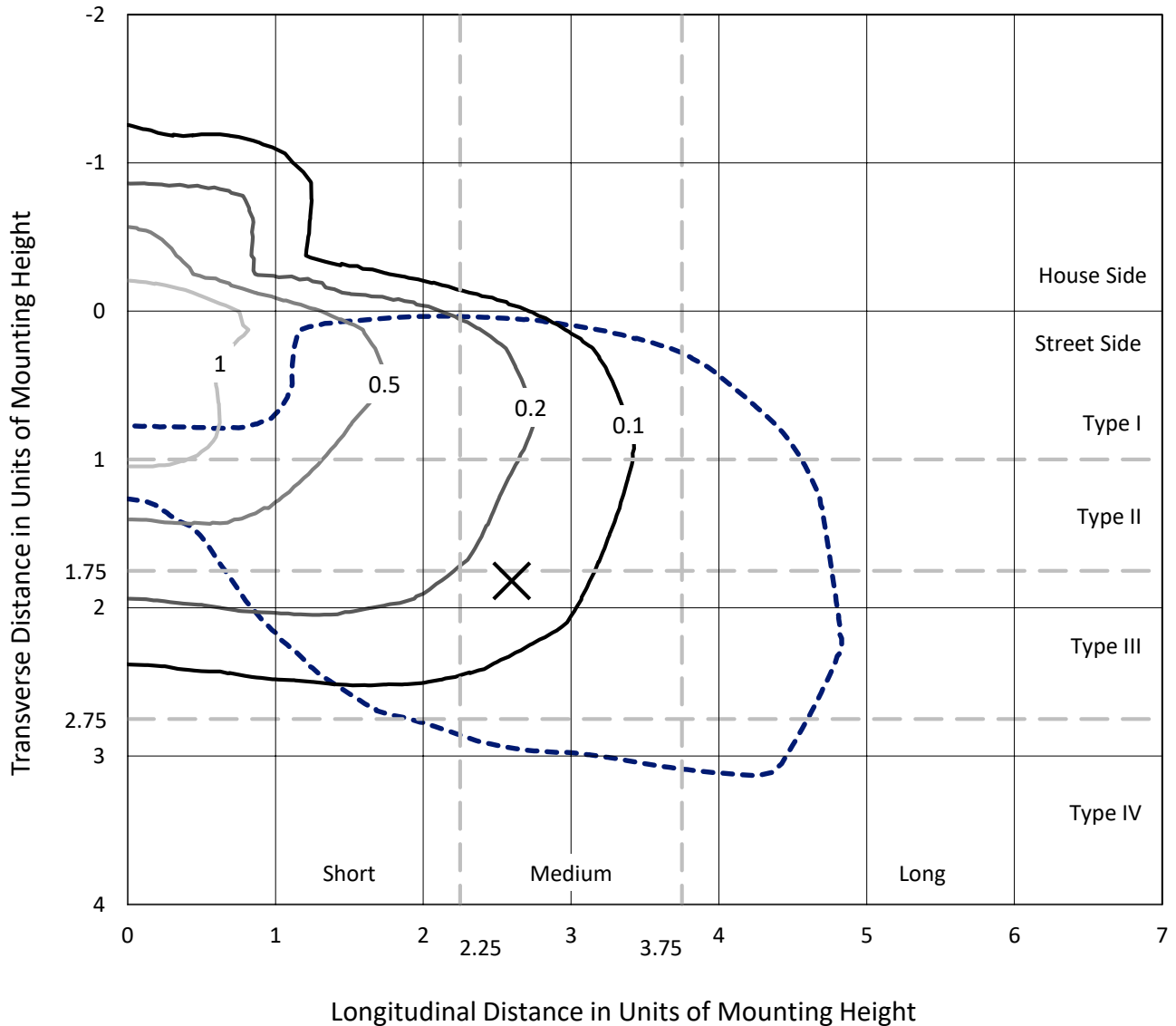




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Iso-Footcandle Lines of Horizontal Illumination

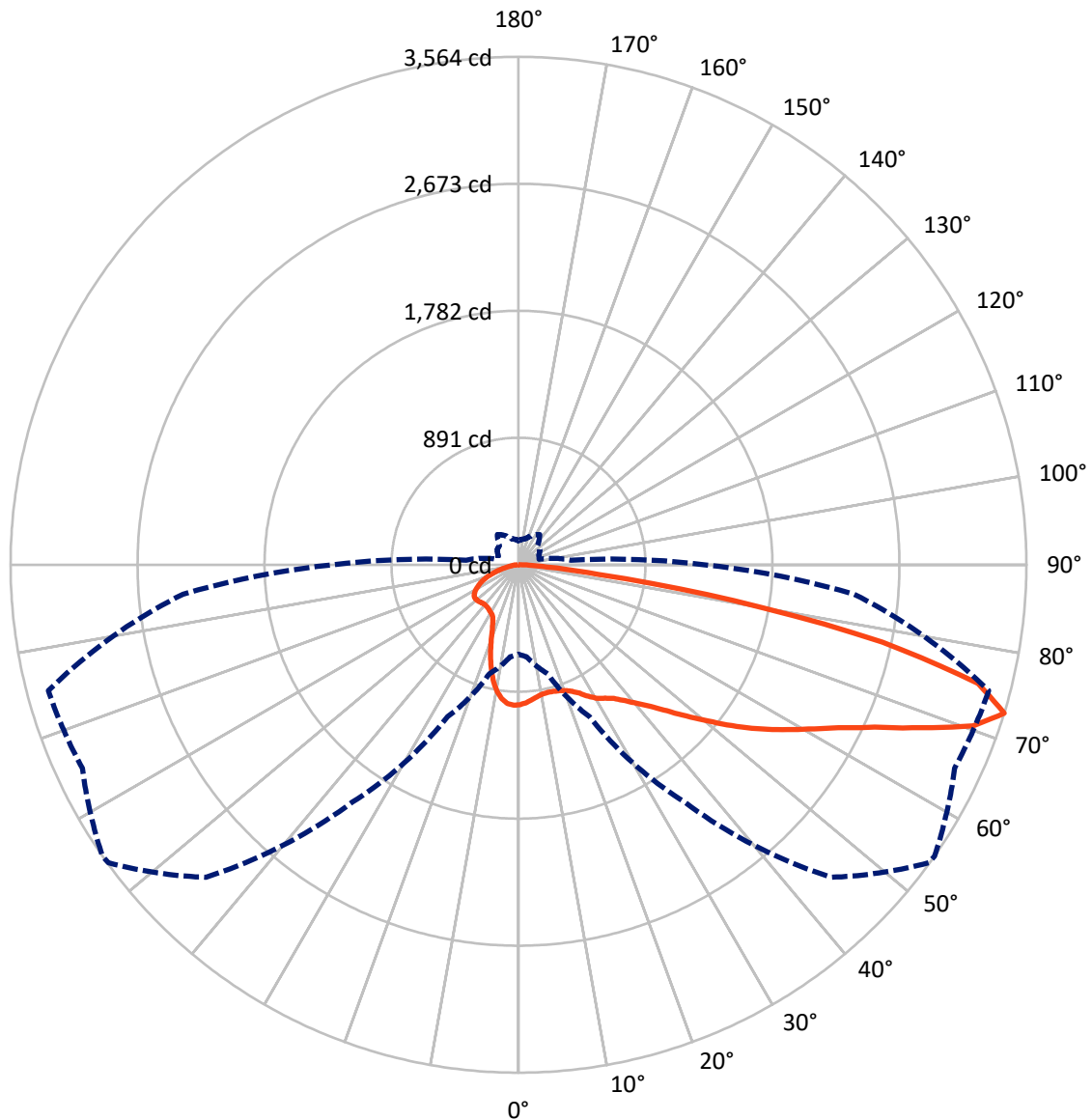
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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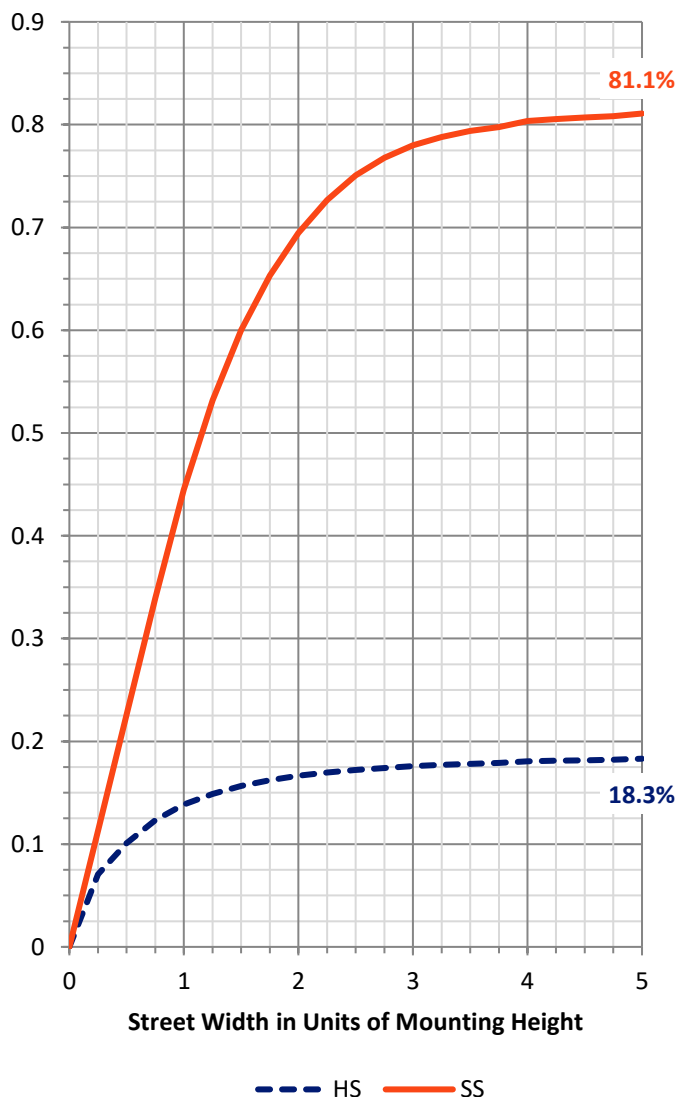
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1035.5	0.0	1035.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	4535.5	0.0	4535.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	5571.0	0.0	5571.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.9	1.6
10°-20°	236.7	4.2
20°-30°	390.3	7.0
30°-40°	577.3	10.4
40°-50°	805.9	14.5
50°-60°	1049.2	18.8
60°-70°	1289.5	23.1
70°-80°	1010.8	18.1
80°-90°	122.3	2.2
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°	5571.0	100.0
0°-180°	5571.0	100.0

Coefficient of Utilization



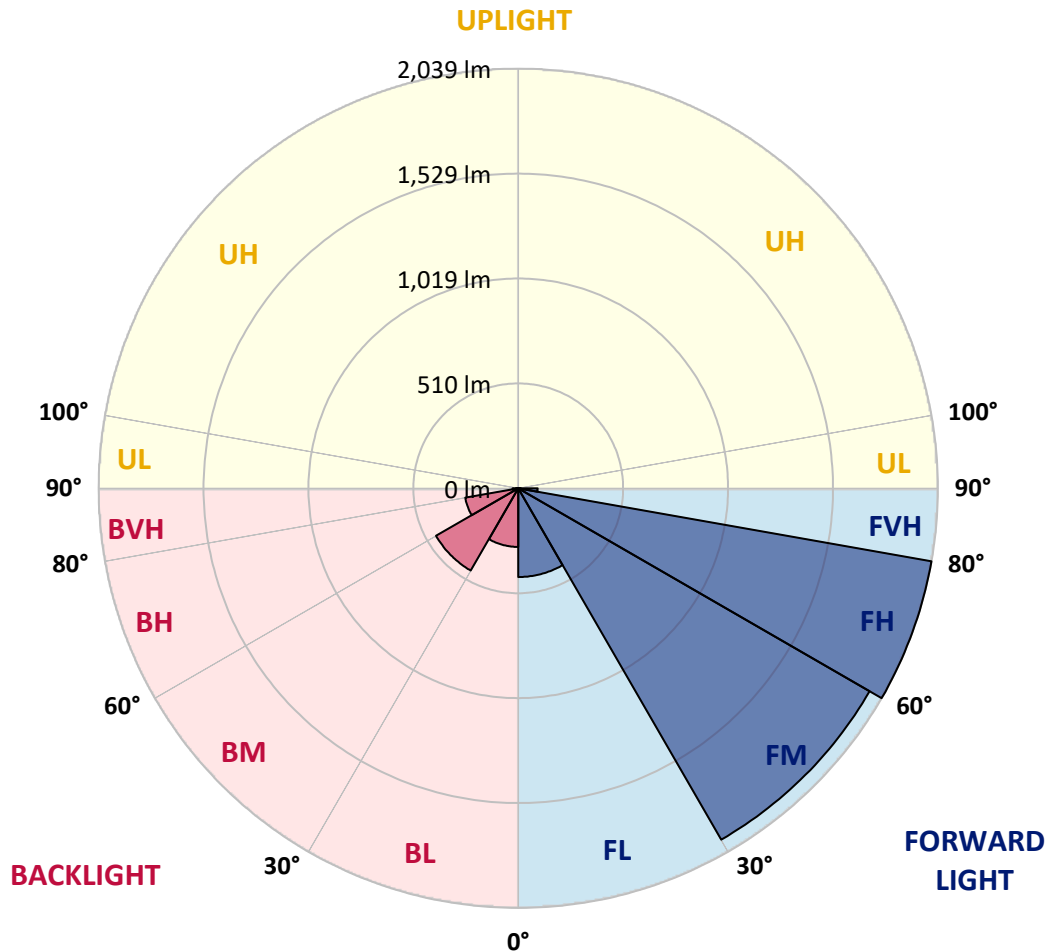
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	431.0	7.7			
FM (30°-60°)	1971.1	35.4			
FH (60°-80°)	2038.8	36.6			G2/5000
FVH (80°-90°)	94.6	1.7			G1/100
BL (0°-30°)	284.9	5.1	B1/500		
BM (30°-60°)	461.3	8.3	B1/1000		
BH (60°-80°)	261.5	4.7	B1/500		G1/500
BVH (80°-90°)	27.7	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	982.6	982.6	982.6	982.6	982.6	982.6	982.6	982.6	982.6	982.6	982.6
2.5°	950.6	948.4	951.2	955.1	959.5	965.3	968.7	970.2	976.0	978.3	983.2
5°	906.6	905.5	910.2	916.9	926.5	940.1	951.0	953.1	968.5	979.4	989.4
7.5°	874.6	874.6	880.1	888.1	898.9	917.1	932.6	935.4	961.5	985.1	1003.5
10°	849.2	850.1	856.5	866.1	878.7	898.1	918.6	921.8	959.6	998.2	1027.6
12.5°	832.3	834.5	840.4	849.0	864.6	888.1	914.1	918.4	963.6	1017.0	1056.6
15°	843.0	846.7	847.3	850.9	859.5	885.1	916.7	921.3	972.1	1036.2	1089.5
17.5°	890.0	891.3	885.5	878.0	873.8	890.2	924.6	929.4	982.2	1055.2	1121.1
20°	961.5	960.8	948.2	927.8	906.8	909.4	937.6	942.5	996.0	1072.0	1152.7
22.5°	1051.8	1049.2	1029.8	992.4	956.4	941.4	960.4	964.5	1016.7	1095.9	1186.6
25°	1161.4	1155.5	1129.9	1079.7	1026.8	988.1	994.6	998.6	1046.8	1122.6	1217.6
27.5°	1276.9	1271.1	1238.5	1177.7	1107.4	1047.0	1041.9	1045.3	1081.0	1142.4	1240.6
30°	1397.7	1391.5	1361.8	1293.6	1192.8	1107.9	1085.9	1087.2	1105.1	1153.1	1259.4
32.5°	1519.1	1513.2	1479.9	1400.9	1285.6	1173.4	1117.7	1116.0	1119.6	1164.2	1280.7
35°	1642.1	1644.4	1605.4	1517.9	1388.3	1246.2	1155.3	1151.8	1143.9	1187.0	1310.8
37.5°	1773.8	1772.3	1721.9	1630.5	1495.7	1325.3	1209.3	1208.8	1181.5	1230.0	1358.0
40°	1861.9	1862.8	1832.2	1745.6	1604.3	1412.8	1278.6	1277.3	1241.5	1294.6	1419.9
42.5°	1896.3	1902.5	1910.5	1855.5	1718.0	1514.2	1361.2	1359.3	1325.3	1387.2	1492.7
45°	1898.8	1911.2	1960.1	1953.2	1833.1	1630.3	1466.8	1461.5	1437.0	1510.2	1579.7
47.5°	1877.7	1890.5	1971.8	2011.3	1936.0	1752.8	1590.2	1586.1	1565.0	1664.1	1673.7
50°	1831.6	1843.8	1947.7	2039.7	2020.7	1870.6	1732.4	1721.5	1710.2	1842.0	1781.4
52.5°	1745.2	1768.8	1915.5	2046.5	2071.3	1975.2	1882.0	1874.9	1881.1	2029.6	1889.2
55°	1540.7	1567.0	1832.6	2040.9	2108.8	2063.1	2031.6	2031.3	2063.4	2226.4	2004.9
57.5°	1426.1	1444.7	1663.6	2031.3	2153.2	2150.4	2179.7	2183.3	2246.0	2440.7	2126.1
60°	1361.4	1381.0	1578.0	1995.7	2222.1	2263.3	2330.8	2338.0	2431.5	2678.0	2271.9
62.5°	1302.5	1323.9	1524.9	1923.2	2303.2	2424.7	2511.8	2518.2	2627.9	2921.8	2412.9
65°	1201.8	1226.1	1447.2	1875.6	2376.9	2635.3	2742.0	2746.3	2853.5	3177.4	2520.7
67.5°	1059.6	1081.8	1300.6	1770.5	2431.5	2891.0	3047.9	3050.4	3077.3	3357.8	2575.8
70°	893.4	901.9	1091.7	1553.3	2366.9	3130.1	3383.2	3383.8	3281.2	3473.4	2566.8
72.5°	627.7	647.7	792.6	1175.9	2034.1	3101.0	3557.3	3563.7	3376.1	3415.0	2361.7
75°	385.0	406.1	497.1	712.6	1290.4	2438.8	3286.7	3331.1	3198.3	3044.9	1929.3
77.5°	257.4	265.3	324.4	415.5	584.6	1403.2	2526.9	2610.4	2656.9	2220.6	1233.8
80°	143.6	158.6	215.1	258.2	260.0	557.5	1515.1	1534.7	1478.2	884.2	380.7
82.5°	76.0	84.3	143.6	151.7	141.9	186.7	564.7	565.3	472.3	237.1	113.1
85°	58.9	65.9	98.4	92.6	72.4	82.8	186.3	196.4	160.7	97.1	36.9
87.5°	29.4	36.5	66.8	58.7	28.4	23.7	66.6	71.1	63.4	38.0	13.4
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°	982.6	982.6	982.6	982.6	982.6	982.6	982.6	982.6	982.6	982.6	982.6
2.5°	985.1	986.7	988.8	986.6	985.8	982.8	977.7	976.6	973.9	974.1	975.6
5°	993.7	996.5	995.4	986.7	976.4	961.9	946.9	934.1	925.6	925.0	924.5
7.5°	1010.3	1012.1	1003.3	978.7	949.7	916.2	884.6	856.9	840.2	836.0	835.1
10°	1036.2	1035.9	1011.6	961.9	904.1	844.3	793.5	755.1	732.7	726.1	724.4
12.5°	1065.2	1060.9	1014.4	931.4	839.8	756.8	692.5	649.7	626.4	618.9	617.0
15°	1095.1	1084.4	1007.4	885.9	760.8	662.5	595.0	555.5	542.9	538.7	538.0
17.5°	1123.0	1102.3	987.5	824.2	670.6	568.6	516.0	500.1	503.2	508.6	508.8
20°	1150.3	1114.3	955.5	746.3	575.6	491.3	473.4	485.1	499.4	510.5	512.0
22.5°	1177.2	1122.8	914.3	656.3	490.5	447.8	460.4	481.7	498.1	510.1	512.2
25°	1199.7	1124.9	857.5	560.4	431.5	431.5	454.2	474.4	490.5	502.4	504.5
27.5°	1208.0	1110.9	777.3	471.5	401.7	423.9	445.6	462.3	476.1	488.7	490.9
30°	1211.2	1085.2	684.7	400.2	389.5	415.8	433.9	448.2	461.2	473.1	475.1
32.5°	1211.8	1054.1	586.5	359.8	381.0	407.4	419.4	432.0	446.0	450.7	451.4
35°	1215.4	1017.4	483.0	339.1	373.1	399.5	409.1	418.1	395.5	397.2	398.7
37.5°	1225.7	981.1	396.5	327.4	368.1	395.3	406.8	374.1	356.4	352.2	351.7
40°	1245.1	942.3	332.3	318.0	366.2	397.4	392.3	349.2	318.8	296.0	292.6
42.5°	1272.0	900.6	291.3	311.8	367.5	407.4	372.2	325.3	274.7	260.0	258.2
45°	1302.3	856.7	269.1	307.5	372.0	415.1	368.1	293.5	254.2	243.1	242.2
47.5°	1331.7	803.1	257.6	305.6	378.2	408.9	350.6	283.8	244.4	238.6	239.2
50°	1365.3	754.7	250.6	303.5	383.7	404.9	330.8	278.7	240.7	247.8	255.3
52.5°	1393.7	704.7	244.4	299.4	385.7	398.0	325.7	279.6	240.7	254.4	261.6
55°	1427.4	666.9	237.3	290.7	381.8	378.2	322.1	285.3	243.5	234.8	235.6
57.5°	1470.9	654.4	229.4	277.2	368.6	349.4	320.4	290.7	241.8	236.3	238.2
60°	1531.1	667.6	226.2	259.5	348.1	326.8	320.6	287.9	229.9	220.5	220.7
62.5°	1588.5	682.3	226.0	248.4	322.9	306.7	316.3	278.7	223.9	218.5	220.5
65°	1607.3	667.4	217.0	236.0	294.5	282.6	308.4	268.9	219.4	211.1	210.7
67.5°	1582.1	621.3	198.7	215.8	261.9	254.6	298.1	257.2	212.3	205.5	204.3
70°	1507.2	518.4	176.1	189.3	224.9	223.0	281.7	243.7	202.7	196.8	191.9
72.5°	1305.7	369.4	148.5	157.5	183.1	189.1	259.1	226.0	189.1	176.5	169.0
75°	1072.4	273.4	121.9	123.8	139.1	155.4	228.1	205.3	173.1	151.7	145.8
77.5°	656.7	167.3	97.1	97.8	99.7	124.0	187.8	182.1	152.8	126.4	122.3
80°	212.6	91.3	70.2	73.8	68.1	90.9	145.3	155.0	131.2	105.7	101.2
82.5°	80.9	53.3	47.4	49.9	47.2	61.0	105.9	124.2	107.4	86.9	70.8
85°	39.1	30.1	28.0	31.4	29.2	31.2	67.7	91.4	81.5	56.6	52.7
87.5°	13.9	13.4	10.7	14.5	12.4	11.1	20.7	46.1	53.8	39.0	34.8
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)