

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: P451779

Luminaire Tested: **GLAN-SA2C-830-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2C-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8796 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

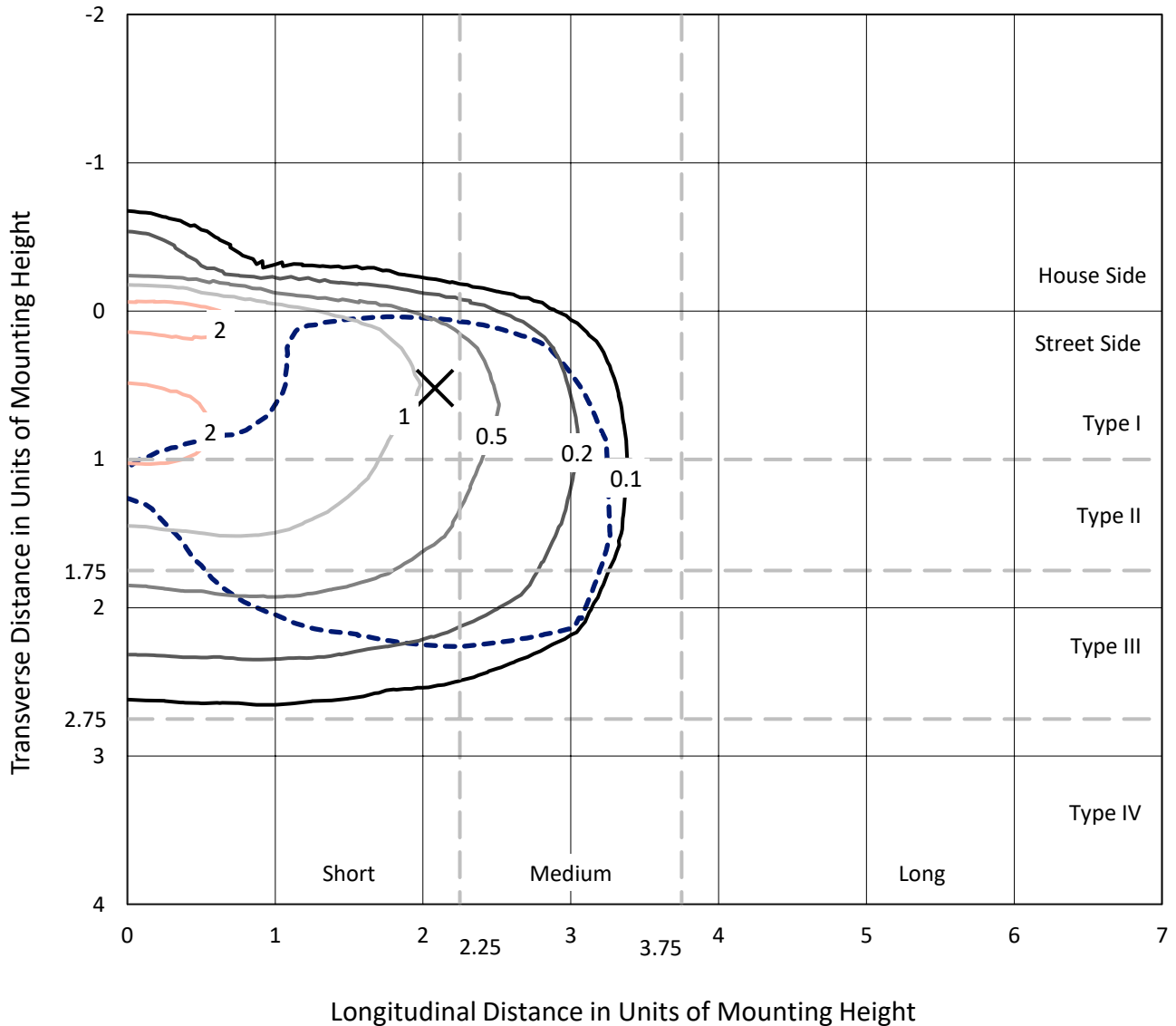
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

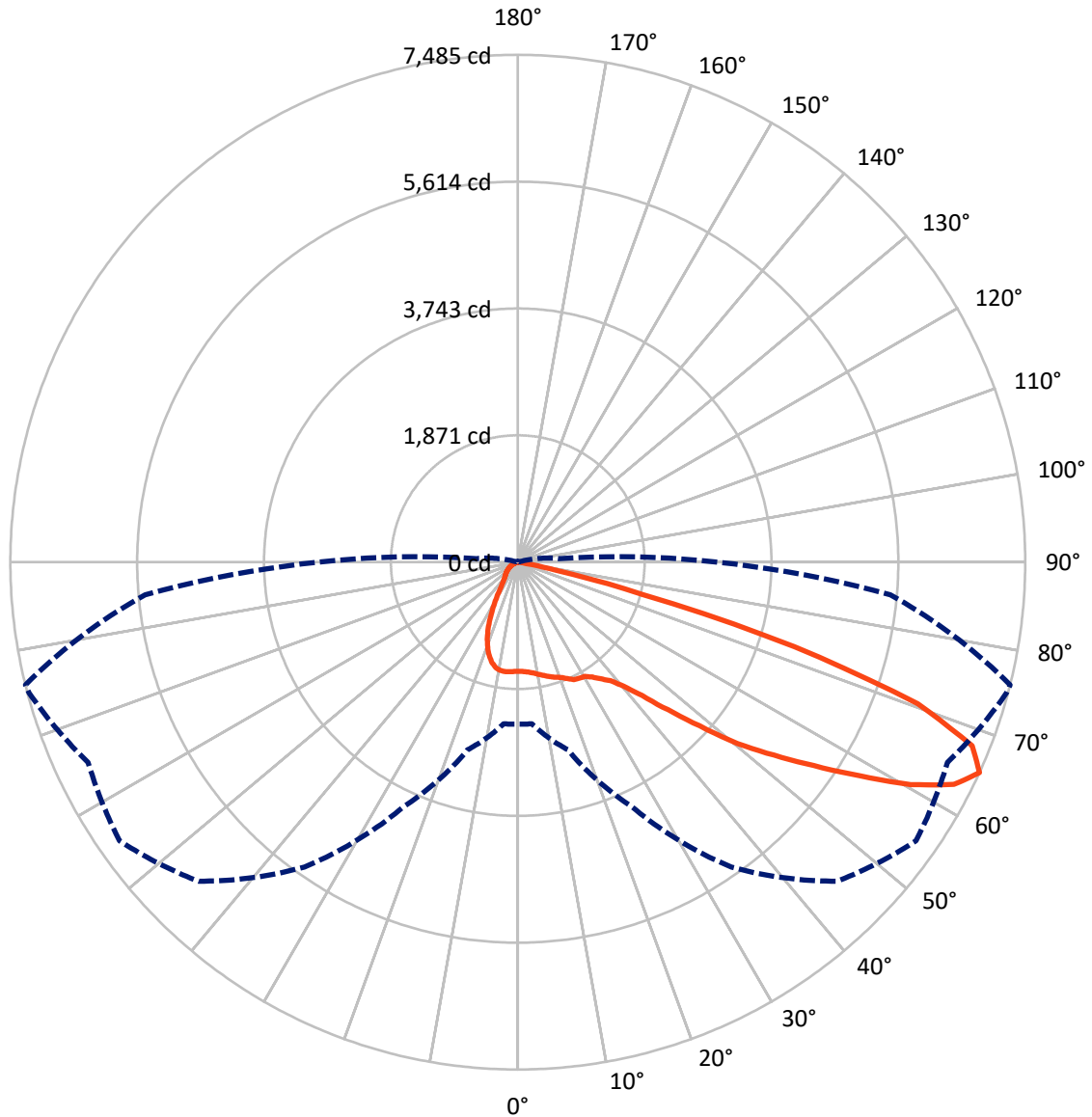
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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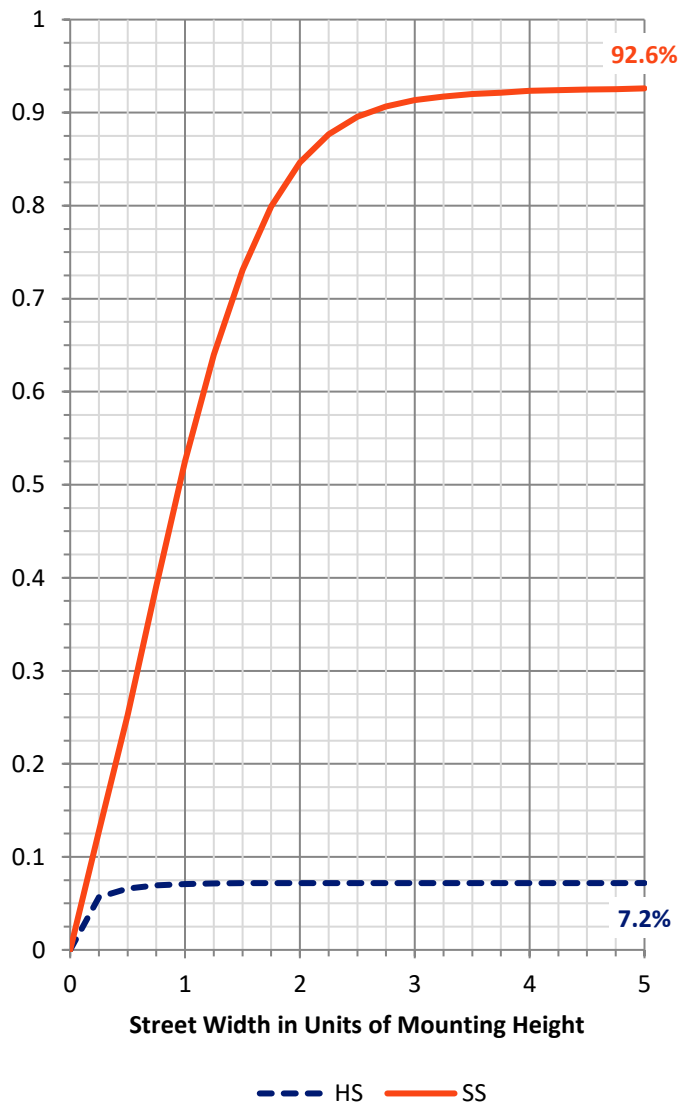
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	635.2	0.0	635.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	8160.8	0.0	8160.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	8796.0	0.0	8796.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.5	1.5
10°-20°	295.1	3.4
20°-30°	475.6	5.4
30°-40°	826.9	9.4
40°-50°	1366.4	15.5
50°-60°	2110.8	24.0
60°-70°	2577.6	29.3
70°-80°	978.3	11.1
80°-90°	32.6	0.4
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°	8796.0	100.0
0°-180°	8796.0	100.0

Coefficient of Utilization



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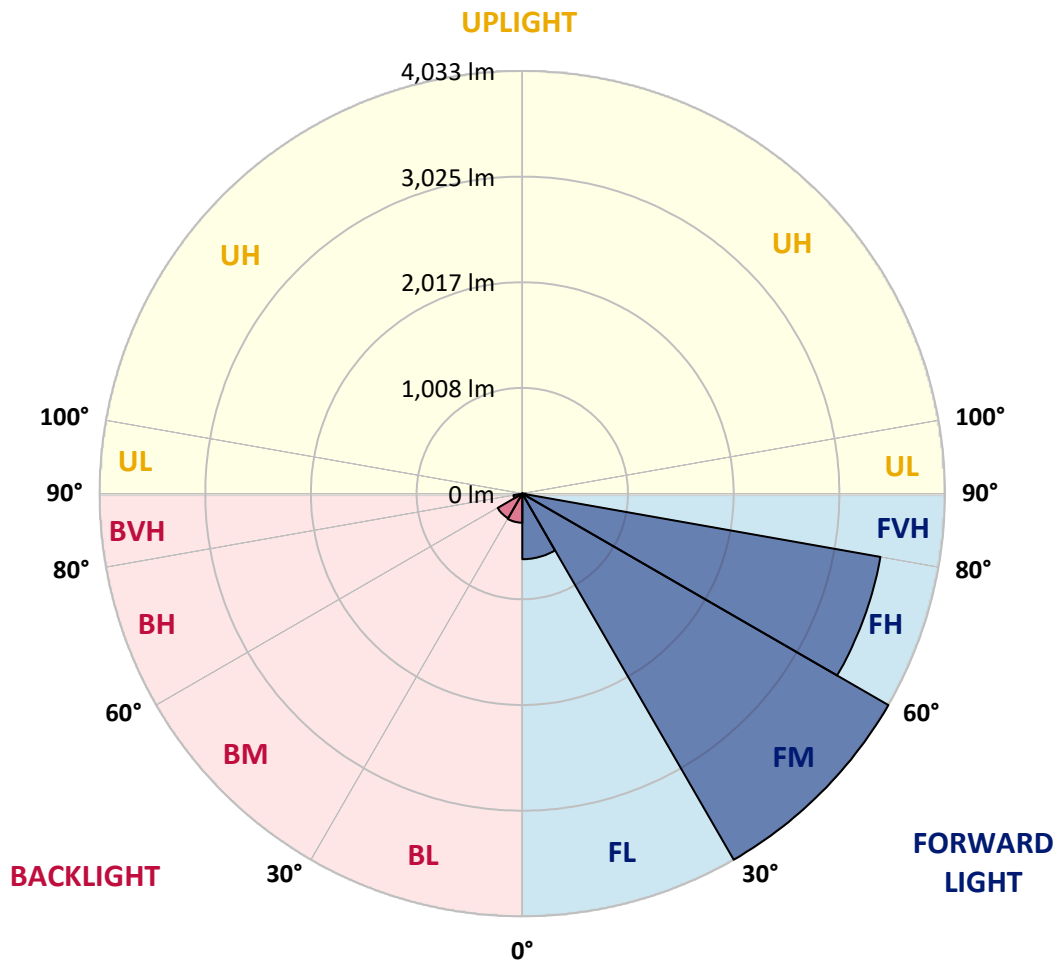
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	625.7	7.1			
FM (30°-60°)	4033.1	45.9			
FH (60°-80°)	3469.7	39.4			G2/5000
FVH (80°-90°)	32.2	0.4			G1/100
BL (0°-30°)	277.5	3.2	B1/500		
BM (30°-60°)	271.1	3.1	B1/1000		
BH (60°-80°)	86.2	1.0	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1609.1	1609.1	1609.1	1609.1	1609.1	1609.1	1609.1	1609.1	1609.1	1609.1	1609.1
2.5°	1537.7	1538.3	1542.0	1551.3	1565.6	1577.4	1587.3	1603.5	1614.7	1615.9	1619.6
5°	1431.5	1424.0	1431.5	1455.7	1477.4	1510.3	1550.7	1591.1	1627.1	1629.6	1647.0
7.5°	1312.2	1318.4	1330.2	1355.1	1396.1	1446.4	1504.7	1576.8	1645.1	1651.3	1685.5
10°	1191.1	1204.8	1224.0	1261.9	1319.1	1384.3	1463.7	1566.8	1673.7	1682.3	1741.3
12.5°	1079.3	1085.5	1109.1	1160.1	1230.9	1322.8	1432.7	1561.3	1705.3	1715.9	1801.0
15°	993.6	1001.7	1022.2	1068.2	1147.0	1265.0	1407.2	1559.4	1736.4	1751.3	1860.6
17.5°	977.5	982.5	991.2	1022.2	1091.1	1219.1	1384.3	1558.8	1766.2	1784.2	1915.9
20°	1043.9	1039.6	1030.9	1027.8	1065.7	1183.7	1367.5	1563.7	1794.8	1815.2	1974.2
22.5°	1210.4	1216.0	1165.0	1104.8	1092.4	1178.1	1365.0	1587.3	1840.1	1864.3	2039.4
25°	1563.7	1520.9	1441.4	1297.3	1188.6	1212.2	1393.0	1643.2	1892.9	1919.6	2098.4
27.5°	1954.4	1941.3	1817.7	1580.5	1378.0	1284.3	1442.6	1686.1	1910.3	1937.6	2132.0
30°	2338.1	2353.7	2212.1	1950.0	1653.2	1417.8	1489.2	1702.2	1925.8	1954.4	2174.8
32.5°	2694.0	2712.6	2588.4	2328.8	1977.3	1648.8	1569.3	1764.9	1991.0	2020.2	2246.2
35°	2974.1	2976.6	2882.8	2676.0	2331.3	1929.5	1742.6	1874.9	2079.2	2113.3	2322.0
37.5°	3231.2	3227.5	3117.5	2939.3	2626.3	2208.4	1960.6	2001.6	2179.8	2215.2	2431.3
40°	3421.8	3424.3	3388.9	3221.2	2901.4	2466.1	2133.2	2120.2	2348.7	2404.0	2590.3
42.5°	3549.1	3572.1	3589.5	3504.4	3247.3	2783.4	2398.4	2374.2	2641.8	2687.8	2815.1
45°	3652.2	3693.2	3780.2	3775.8	3579.6	3172.8	2762.3	2712.6	3057.3	3106.4	3101.4
47.5°	3727.4	3769.0	3913.1	4000.0	3891.9	3550.4	3220.0	3177.2	3553.5	3606.9	3417.5
50°	3765.9	3815.6	3999.4	4167.7	4136.0	3914.3	3741.7	3744.1	4152.8	4204.3	3783.9
52.5°	3675.8	3740.4	4045.3	4348.4	4409.9	4262.7	4230.4	4312.4	4686.2	4730.3	4114.9
55°	3388.3	3469.7	3982.6	4502.4	4727.2	4673.8	4785.6	4910.4	5269.4	5297.9	4454.6
57.5°	3206.3	3292.7	3797.6	4633.4	5108.5	5190.5	5367.5	5458.8	5871.1	5943.8	4844.6
60°	3052.9	3120.6	3645.4	4661.4	5496.0	5822.7	5994.7	6089.1	6613.9	6661.1	5273.7
62.5°	2797.7	2875.3	3388.3	4466.4	5691.0	6328.8	6685.3	6643.1	7188.3	7221.2	5537.0
65°	2387.2	2394.0	2866.6	3976.4	5489.8	6657.4	7170.3	6993.3	7462.8	7485.2	5516.5
67.5°	1781.7	1847.5	2205.3	3125.6	4637.2	6376.7	7327.4	7002.6	7289.6	7227.5	5078.7
70°	1147.6	1198.0	1494.8	2167.4	3343.6	5321.5	6806.4	6522.6	6397.8	6259.9	4157.1
72.5°	529.7	594.3	888.1	1238.3	1982.9	3790.7	5525.2	5299.2	4604.9	4264.6	2642.5
75°	231.0	247.2	438.4	653.3	929.7	2004.7	3642.9	3289.6	2079.8	1899.7	1057.6
77.5°	141.0	151.5	229.8	350.3	365.2	763.9	1962.4	1435.2	642.8	567.0	286.9
80°	95.6	107.4	167.1	183.2	124.8	213.0	736.5	383.2	129.8	124.2	61.5
82.5°	46.6	59.0	123.6	102.5	54.0	68.3	214.3	82.0	37.9	35.4	21.7
85°	6.8	11.8	69.6	67.1	24.2	16.1	37.9	20.5	13.0	12.4	9.9
87.5°	0.0	0.0	23.6	10.6	2.5	2.5	4.3	4.3	5.0	4.3	5.0
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°	1609.1	1609.1	1609.1	1609.1	1609.1	1609.1	1609.1	1609.1	1609.1	1609.1	1609.1
2.5°	1621.5	1624.6	1612.8	1596.0	1578.0	1560.0	1534.5	1511.6	1497.9	1506.0	1486.1
5°	1650.7	1648.2	1617.1	1566.2	1498.5	1417.2	1336.4	1267.5	1245.1	1211.6	1207.9
7.5°	1691.0	1684.2	1618.4	1501.6	1348.9	1196.1	1047.0	948.3	891.8	844.0	845.2
10°	1747.6	1727.7	1604.1	1388.0	1136.5	906.1	716.0	585.6	529.1	511.1	496.8
12.5°	1805.9	1767.4	1564.4	1234.6	885.0	619.2	435.3	355.8	321.1	309.9	308.6
15°	1858.1	1797.2	1494.8	1050.1	643.4	395.6	296.8	270.8	266.4	267.0	266.4
17.5°	1909.6	1820.8	1398.5	854.5	437.2	283.8	255.2	249.0	250.9	253.4	252.8
20°	1952.5	1825.8	1275.6	652.1	309.3	249.0	239.7	238.5	240.3	242.2	242.2
22.5°	1999.1	1829.5	1129.6	451.5	252.8	231.6	226.7	226.7	229.2	231.6	232.3
25°	2033.8	1809.0	955.1	324.2	222.9	214.9	212.4	213.0	215.5	216.7	216.1
27.5°	2039.4	1751.3	770.1	248.4	202.5	194.4	191.9	194.4	191.3	193.1	191.9
30°	2044.4	1678.0	582.5	209.3	183.8	171.4	167.7	163.9	161.5	158.4	157.7
32.5°	2059.9	1591.7	425.4	188.2	166.4	152.8	144.1	133.5	125.4	123.0	122.3
35°	2066.8	1488.0	312.4	171.4	150.9	136.0	120.5	105.6	93.8	89.4	92.5
37.5°	2092.8	1387.4	242.2	159.0	137.2	118.6	98.7	80.1	68.9	66.4	67.7
40°	2146.3	1278.1	203.1	148.4	125.4	102.5	78.2	60.2	52.8	50.3	49.7
42.5°	2232.0	1169.4	180.7	138.5	113.6	86.3	61.5	47.2	41.0	39.1	39.1
45°	2336.3	1065.1	165.2	127.9	101.2	69.6	48.4	37.9	34.2	32.9	32.9
47.5°	2473.5	973.8	152.2	117.4	87.6	55.3	39.1	32.9	30.4	31.1	31.7
50°	2612.6	906.1	137.9	105.6	72.0	45.3	33.5	29.2	28.6	29.2	29.2
52.5°	2717.6	866.3	118.6	89.4	56.5	37.9	29.8	27.3	26.7	25.5	25.5
55°	2859.2	857.6	94.4	72.7	44.7	31.7	26.7	24.8	23.0	21.7	21.1
57.5°	3041.1	867.6	72.7	56.5	34.8	26.1	23.6	20.5	18.0	15.5	15.5
60°	3154.2	845.2	56.5	43.5	25.5	21.1	18.0	14.9	11.8	9.9	9.3
62.5°	3118.2	750.8	44.7	32.3	18.0	15.5	11.8	9.9	6.8	5.0	4.3
65°	2932.5	606.1	36.0	22.4	13.0	9.3	6.2	6.2	3.1	0.6	0.0
67.5°	2566.7	449.0	28.6	14.9	7.5	4.3	3.1	1.9	0.0	0.0	0.0
70°	2089.1	324.2	22.4	9.3	4.3	3.1	1.2	0.6	0.0	0.0	0.0
72.5°	1326.5	185.7	17.4	5.6	3.1	1.2	0.0	0.0	0.0	0.0	0.0
75°	513.0	72.7	11.8	3.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	145.3	34.2	6.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	37.9	14.9	3.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.0	6.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.6	2.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)