

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: P452243

Luminaire Tested: **GLAN-SA3A-830-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452243
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-SA3A-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA 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: 8494 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

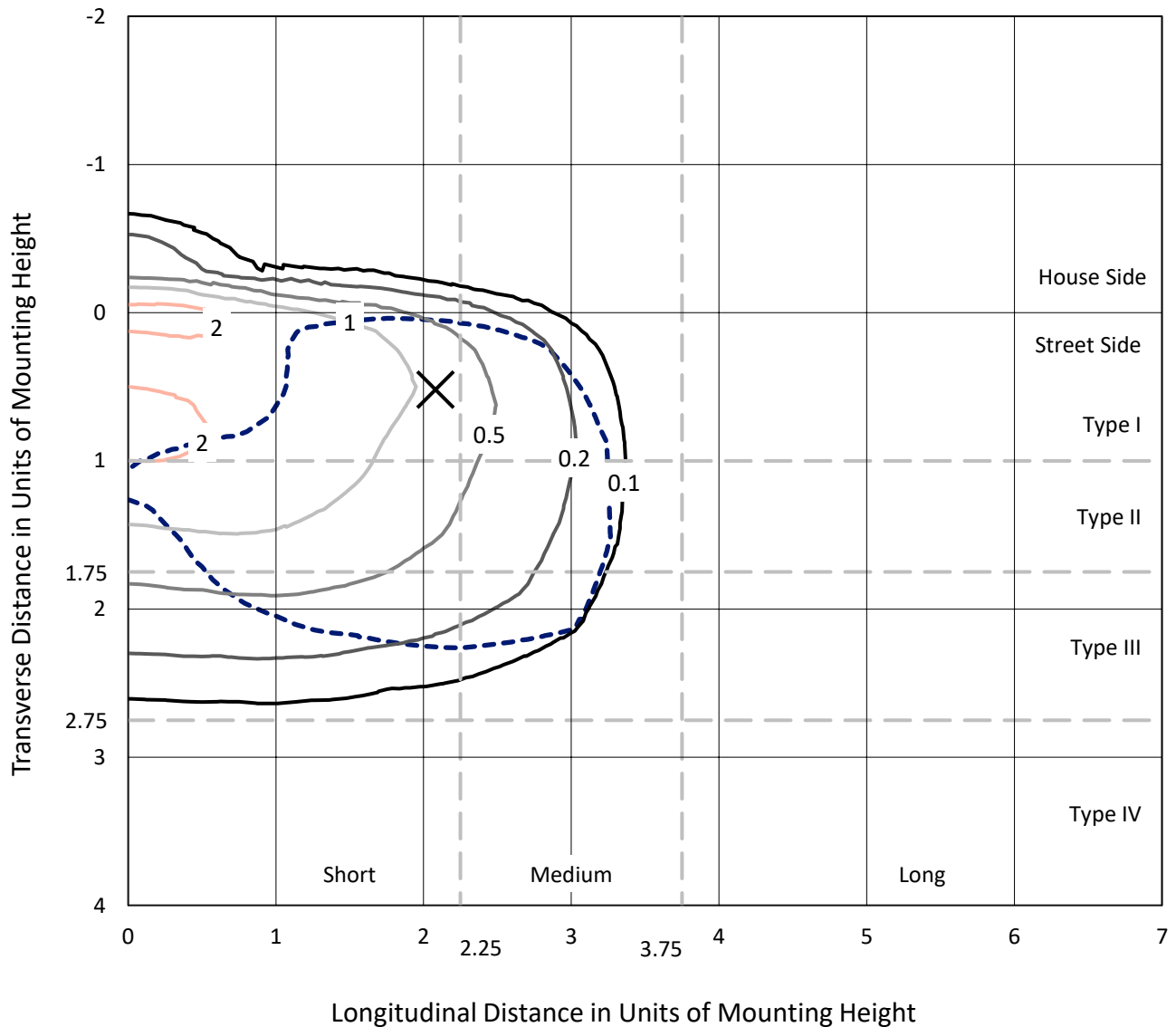
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

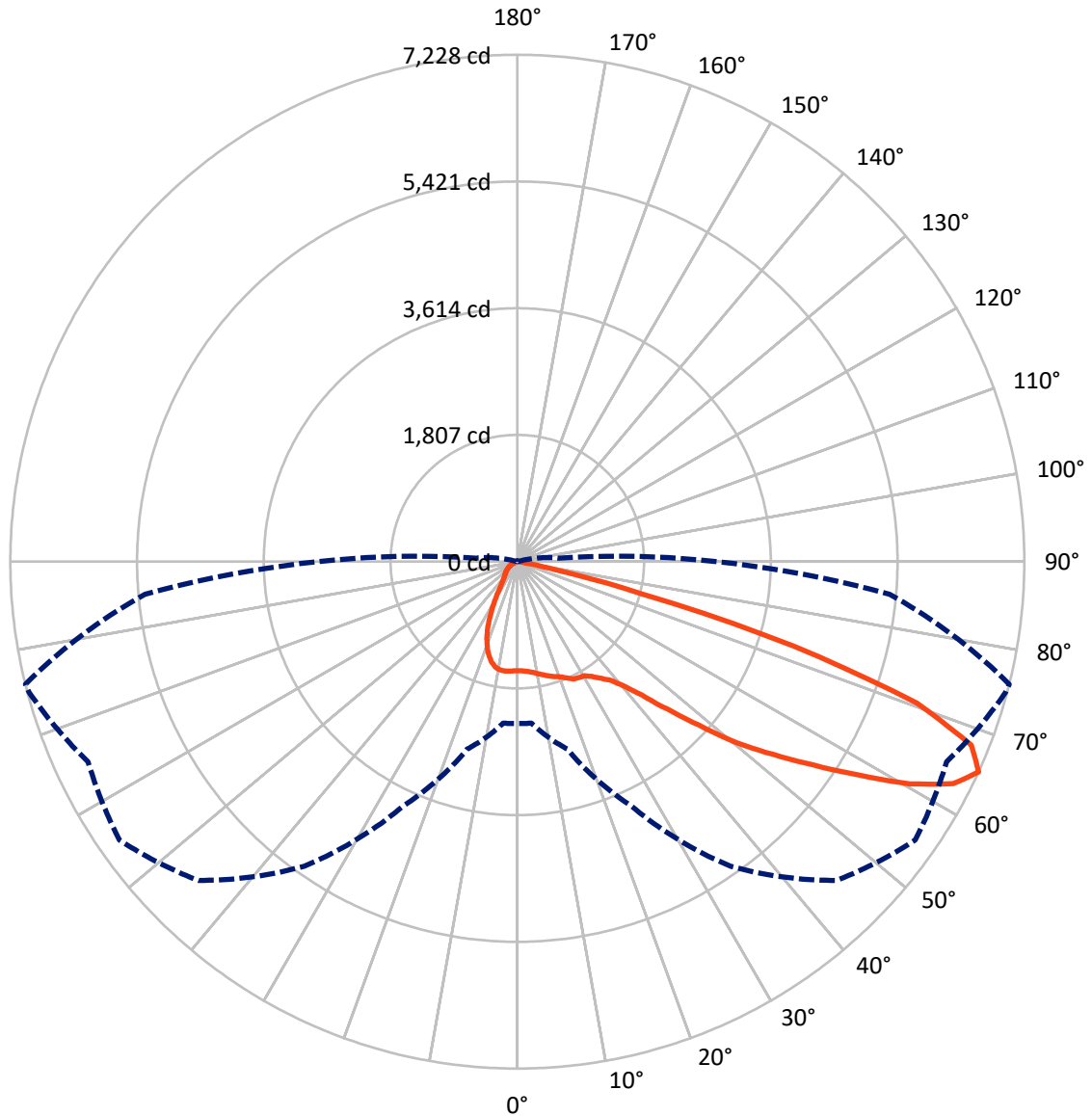
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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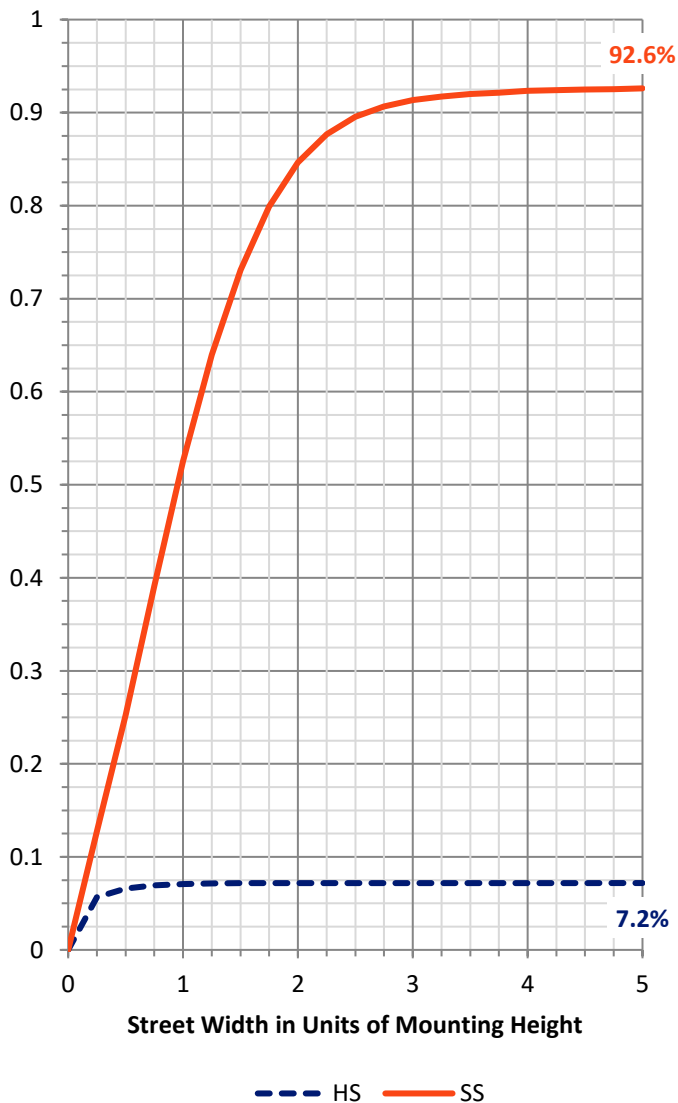
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	613.4	0.0	613.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	7880.6	0.0	7880.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	8494.0	0.0	8494.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	1.5
10°-20°	285.0	3.4
20°-30°	459.2	5.4
30°-40°	798.5	9.4
40°-50°	1319.5	15.5
50°-60°	2038.4	24.0
60°-70°	2489.1	29.3
70°-80°	944.7	11.1
80°-90°	31.5	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°	8494.0	100.0
0°-180°	8494.0	100.0

Coefficient of Utilization



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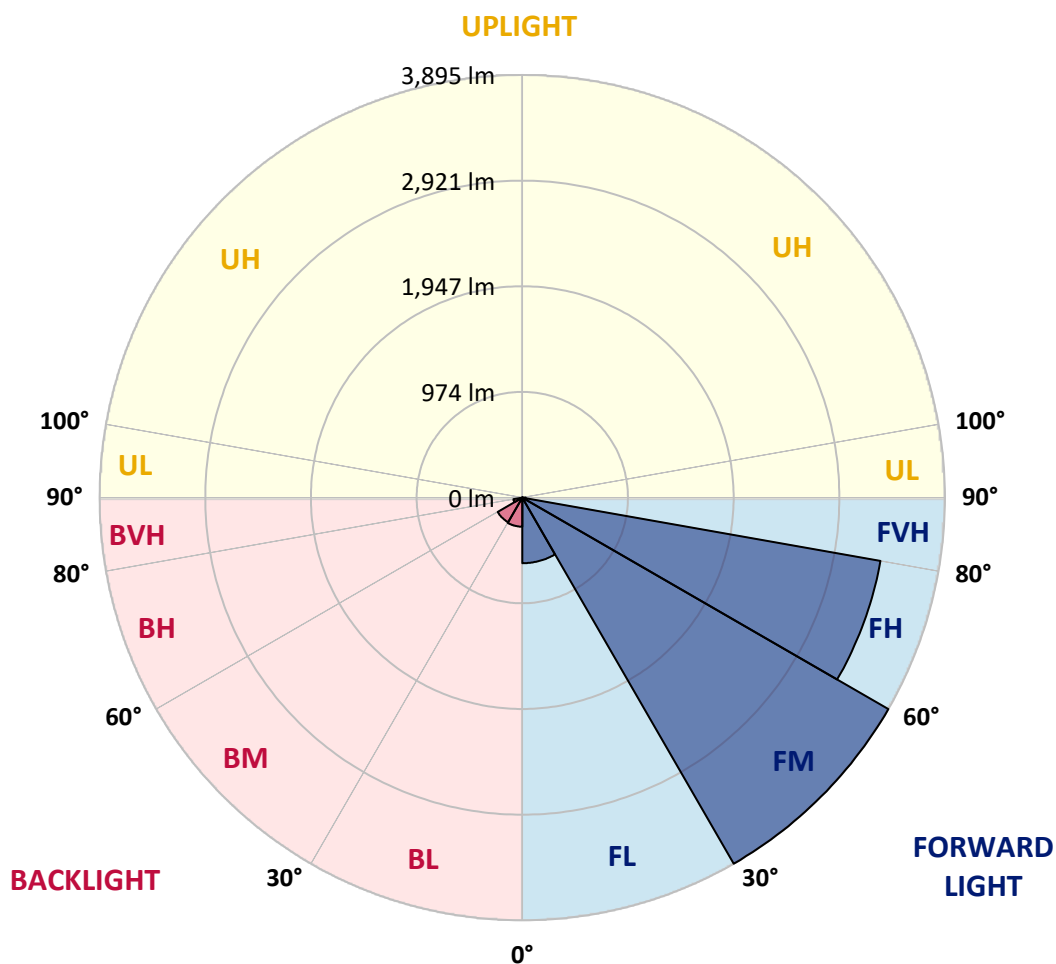
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	604.2	7.1			
FM (30°-60°)	3894.6	45.9			
FH (60°-80°)	3350.6	39.4			G2/5000
FVH (80°-90°)	31.1	0.4			G1/100
BL (0°-30°)	268.0	3.2	B1/500		
BM (30°-60°)	261.8	3.1	B1/1000		
BH (60°-80°)	83.2	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°	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8
2.5°	1484.9	1485.5	1489.1	1498.1	1511.8	1523.2	1532.8	1548.4	1559.2	1560.4	1564.0
5°	1382.3	1375.1	1382.3	1405.7	1426.7	1458.5	1497.5	1536.4	1571.2	1573.6	1590.4
7.5°	1267.2	1273.2	1284.6	1308.5	1348.1	1396.7	1453.1	1522.6	1588.6	1594.6	1627.6
10°	1150.2	1163.4	1182.0	1218.6	1273.8	1336.7	1413.5	1513.0	1616.2	1624.6	1681.6
12.5°	1042.3	1048.3	1071.1	1120.2	1188.6	1277.4	1383.5	1507.6	1646.8	1657.0	1739.1
15°	959.5	967.3	987.1	1031.5	1107.6	1221.6	1358.9	1505.8	1676.8	1691.2	1796.7
17.5°	943.9	948.7	957.1	987.1	1053.7	1177.2	1336.7	1505.2	1705.5	1722.9	1850.1
20°	1008.1	1003.9	995.5	992.5	1029.1	1143.0	1320.5	1510.0	1733.1	1752.9	1906.4
22.5°	1168.8	1174.2	1125.0	1066.9	1054.9	1137.6	1318.1	1532.8	1776.9	1800.3	1969.4
25°	1510.0	1468.7	1391.9	1252.8	1147.8	1170.6	1345.1	1586.8	1827.9	1853.7	2026.4
27.5°	1887.3	1874.7	1755.3	1526.2	1330.7	1240.2	1393.1	1628.2	1844.7	1871.1	2058.8
30°	2257.9	2272.9	2136.1	1883.1	1596.4	1369.1	1438.1	1643.8	1859.7	1887.3	2100.2
32.5°	2601.5	2619.5	2499.6	2248.9	1909.4	1592.2	1515.4	1704.3	1922.6	1950.8	2169.1
35°	2872.0	2874.4	2783.8	2584.1	2251.3	1863.3	1682.8	1810.5	2007.8	2040.8	2242.3
37.5°	3120.2	3116.6	3010.5	2838.4	2536.1	2132.5	1893.3	1932.8	2104.9	2139.1	2347.8
40°	3304.3	3306.7	3272.6	3110.6	2801.8	2381.4	2060.0	2047.4	2268.1	2321.4	2501.4
42.5°	3427.3	3449.5	3466.3	3384.1	3135.8	2687.9	2316.0	2292.7	2551.1	2595.5	2718.4
45°	3526.8	3566.4	3650.4	3646.2	3456.7	3063.9	2667.5	2619.5	2952.3	2999.7	2994.9
47.5°	3599.4	3639.6	3778.7	3862.7	3758.3	3428.5	3109.4	3068.1	3431.5	3483.1	3300.2
50°	3636.6	3684.6	3862.1	4024.6	3994.0	3779.9	3613.2	3615.6	4010.2	4060.0	3654.0
52.5°	3549.6	3612.0	3906.4	4199.1	4258.5	4116.3	4085.2	4164.3	4525.3	4567.9	3973.6
55°	3272.0	3350.5	3845.9	4347.8	4564.9	4513.3	4621.3	4741.8	5088.5	5116.0	4301.7
57.5°	3096.3	3179.6	3667.2	4474.4	4933.1	5012.3	5183.2	5271.4	5669.6	5739.7	4678.3
60°	2948.1	3013.5	3520.2	4501.4	5307.3	5622.8	5788.9	5880.1	6386.8	6432.4	5092.7
62.5°	2701.7	2776.6	3272.0	4313.0	5495.7	6111.5	6455.8	6415.0	6941.5	6973.3	5346.9
65°	2305.2	2311.8	2768.2	3839.9	5301.4	6428.8	6924.1	6753.2	7206.6	7228.2	5327.1
67.5°	1720.5	1784.1	2129.5	3018.3	4478.0	6157.7	7075.9	6762.2	7039.3	6979.3	4904.3
70°	1108.2	1156.8	1443.5	2093.0	3228.8	5138.8	6572.7	6298.7	6178.1	6045.0	4014.4
72.5°	511.5	573.9	857.6	1195.8	1914.8	3660.6	5335.5	5117.2	4446.8	4118.1	2551.7
75°	223.1	238.7	423.4	630.9	897.8	1935.8	3517.8	3176.6	2008.4	1834.5	1021.3
77.5°	136.1	146.3	221.9	338.2	352.6	737.6	1895.1	1385.9	620.7	547.5	277.1
80°	92.4	103.7	161.3	176.9	120.5	205.7	711.2	370.0	125.3	119.9	59.4
82.5°	45.0	57.0	119.3	99.0	52.2	66.0	206.9	79.2	36.6	34.2	21.0
85°	6.6	11.4	67.2	64.8	23.4	15.6	36.6	19.8	12.6	12.0	9.6
87.5°	0.0	0.0	22.8	10.2	2.4	2.4	4.2	4.2	4.8	4.2	4.8
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°	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8
2.5°	1565.8	1568.8	1557.4	1541.2	1523.8	1506.4	1481.9	1459.7	1446.5	1454.3	1435.1
5°	1594.0	1591.6	1561.6	1512.4	1447.1	1368.5	1290.6	1224.0	1202.4	1170.0	1166.4
7.5°	1633.0	1626.4	1562.8	1450.1	1302.5	1155.0	1011.1	915.7	861.2	815.0	816.2
10°	1687.6	1668.4	1549.0	1340.3	1097.5	875.0	691.5	565.5	510.9	493.6	479.8
12.5°	1743.9	1706.7	1510.6	1192.2	854.6	597.9	420.4	343.6	310.0	299.3	298.1
15°	1794.3	1735.5	1443.5	1014.1	621.3	382.0	286.7	261.5	257.3	257.9	257.3
17.5°	1844.1	1758.3	1350.5	825.2	422.2	274.1	246.5	240.5	242.3	244.7	244.1
20°	1885.5	1763.1	1231.8	629.7	298.7	240.5	231.5	230.3	232.1	233.9	233.9
22.5°	1930.4	1766.7	1090.9	436.0	244.1	223.7	218.9	218.9	221.3	223.7	224.3
25°	1964.0	1746.9	922.3	313.0	215.3	207.5	205.1	205.7	208.1	209.3	208.7
27.5°	1969.4	1691.2	743.6	239.9	195.5	187.7	185.3	187.7	184.7	186.5	185.3
30°	1974.2	1620.4	562.5	202.1	177.5	165.5	161.9	158.3	155.9	152.9	152.3
32.5°	1989.2	1537.0	410.8	181.7	160.7	147.5	139.1	128.9	121.1	118.7	118.1
35°	1995.8	1436.9	301.6	165.5	145.7	131.3	116.3	101.9	90.6	86.4	89.4
37.5°	2021.0	1339.7	233.9	153.5	132.5	114.5	95.4	77.4	66.6	64.2	65.4
40°	2072.6	1234.2	196.1	143.3	121.1	99.0	75.6	58.2	51.0	48.6	48.0
42.5°	2155.3	1129.2	174.5	133.7	109.7	83.4	59.4	45.6	39.6	37.8	37.8
45°	2256.1	1028.5	159.5	123.5	97.8	67.2	46.8	36.6	33.0	31.8	31.8
47.5°	2388.6	940.3	146.9	113.3	84.6	53.4	37.8	31.8	29.4	30.0	30.6
50°	2522.9	875.0	133.1	101.9	69.6	43.8	32.4	28.2	27.6	28.2	28.2
52.5°	2624.3	836.6	114.5	86.4	54.6	36.6	28.8	26.4	25.8	24.6	24.6
55°	2761.0	828.2	91.2	70.2	43.2	30.6	25.8	24.0	22.2	21.0	20.4
57.5°	2936.7	837.8	70.2	54.6	33.6	25.2	22.8	19.8	17.4	15.0	15.0
60°	3045.9	816.2	54.6	42.0	24.6	20.4	17.4	14.4	11.4	9.6	9.0
62.5°	3011.1	725.0	43.2	31.2	17.4	15.0	11.4	9.6	6.6	4.8	4.2
65°	2831.8	585.3	34.8	21.6	12.6	9.0	6.0	6.0	3.0	0.6	0.0
67.5°	2478.6	433.6	27.6	14.4	7.2	4.2	3.0	1.8	0.0	0.0	0.0
70°	2017.4	313.0	21.6	9.0	4.2	3.0	1.2	0.6	0.0	0.0	0.0
72.5°	1281.0	179.3	16.8	5.4	3.0	1.2	0.0	0.0	0.0	0.0	0.0
75°	495.4	70.2	11.4	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	140.3	33.0	6.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	36.6	14.4	3.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.4	6.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.2	2.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	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)