

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: P319965

Luminaire Tested: **GAN-SA1C-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319965
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-SA1C-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA 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: 6408 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

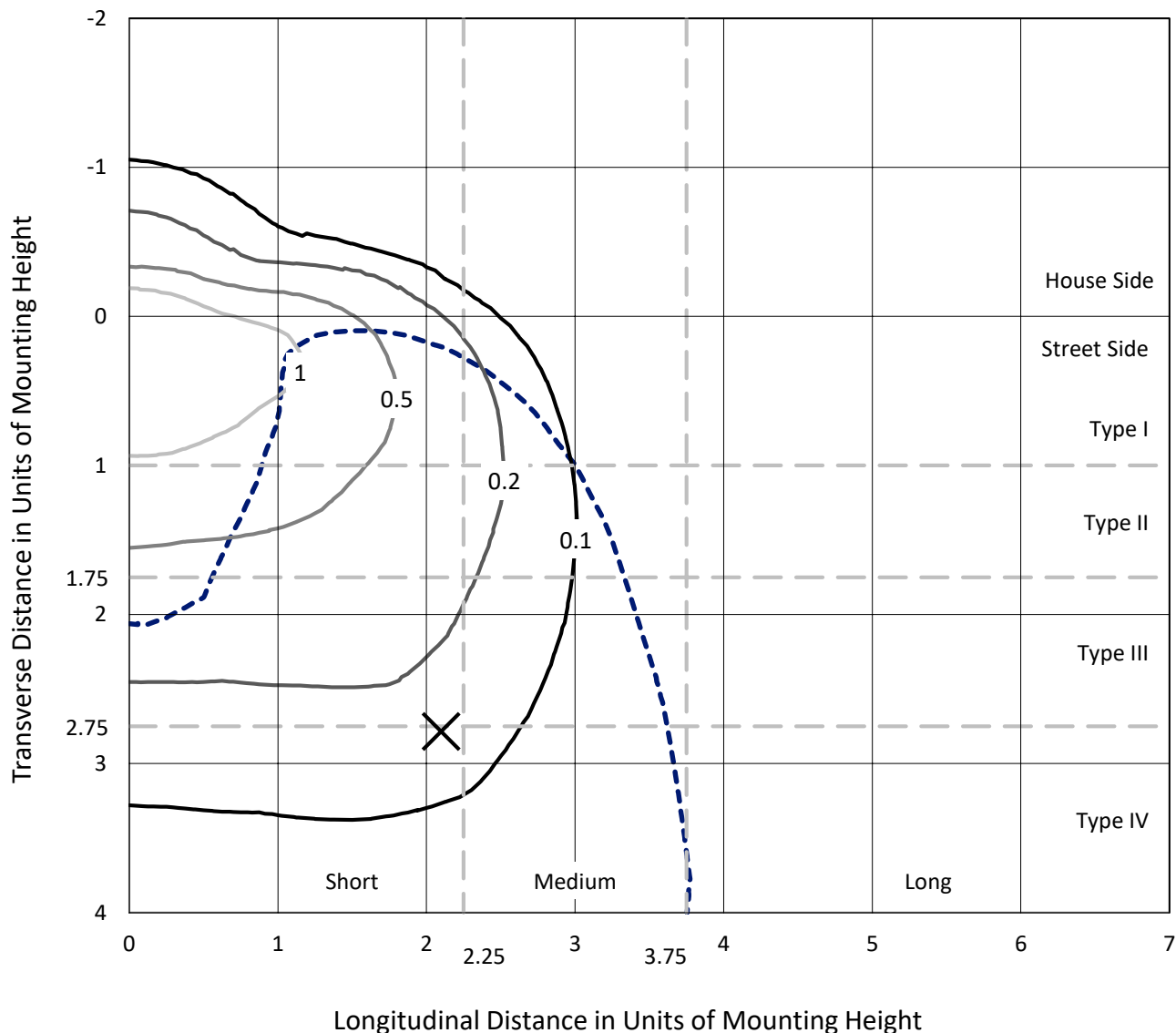
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

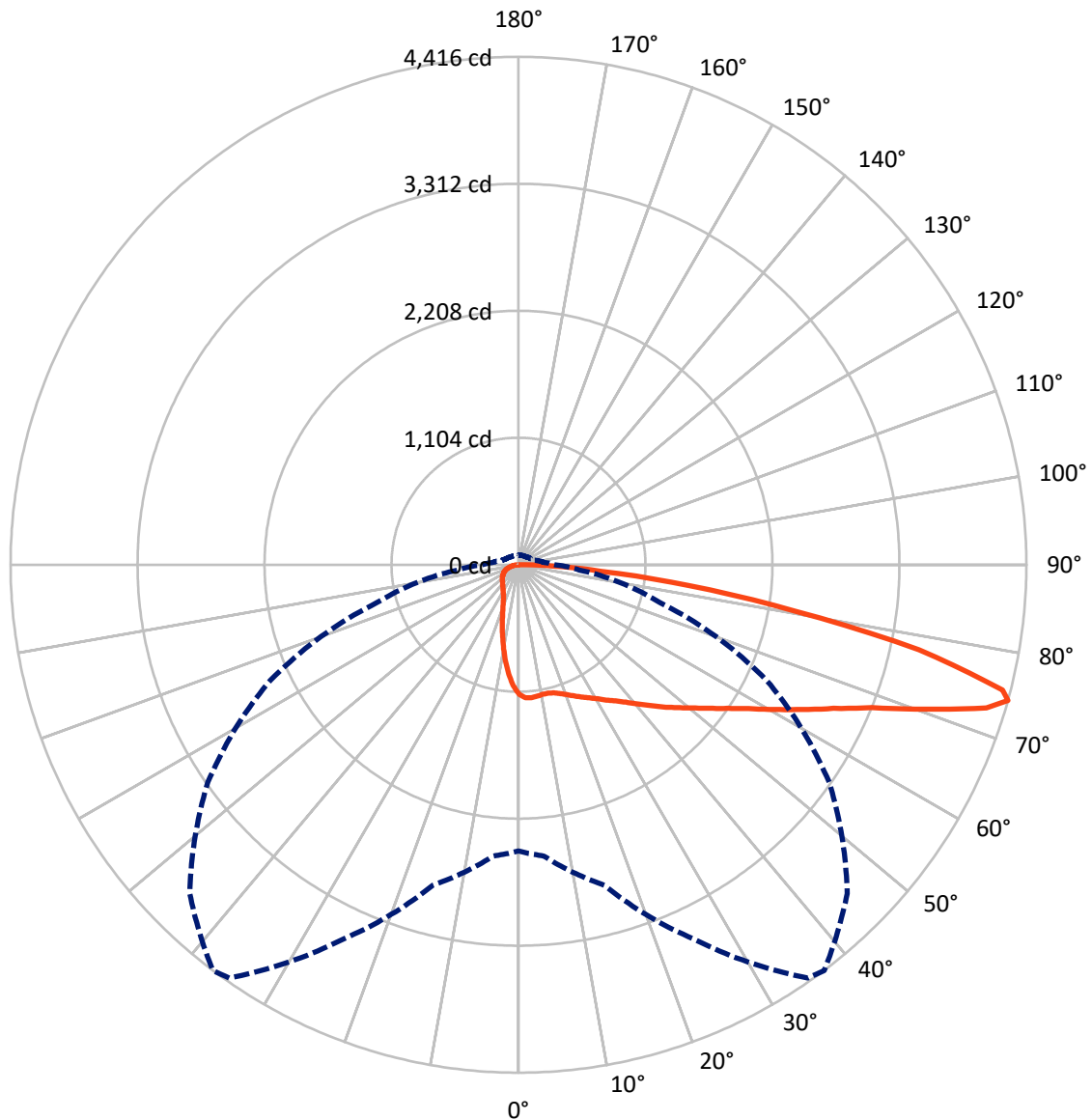
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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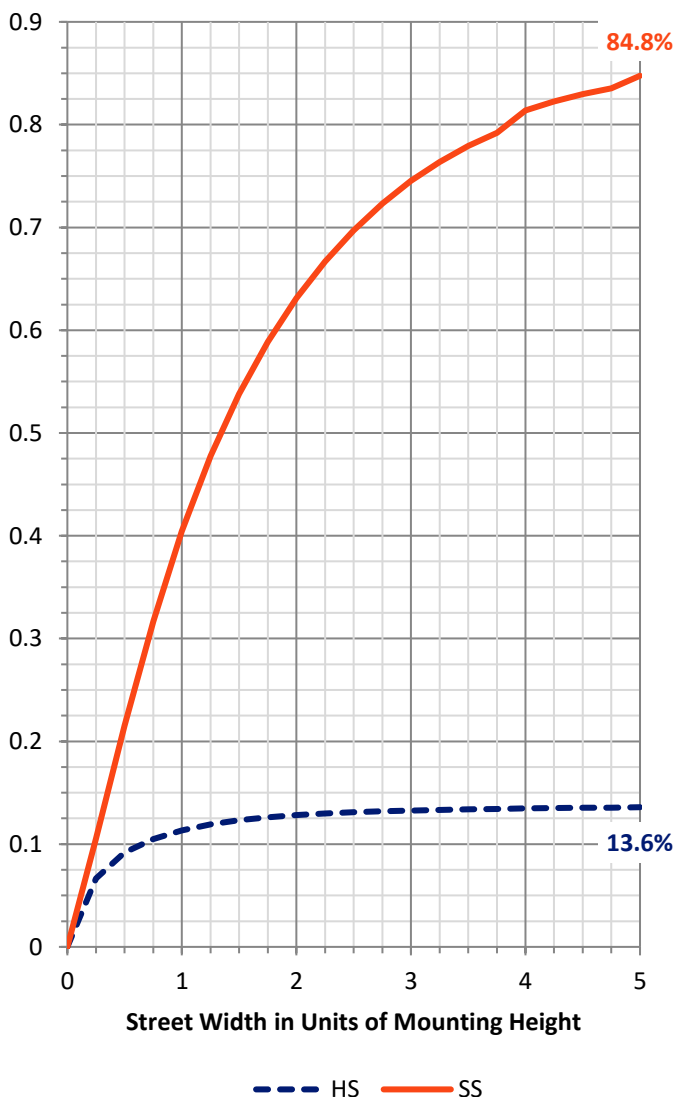
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	881.7	0.0	881.7
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	5526.3	0.0	5526.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	6408.0	0.0	6408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	1.6
10°-20°	254.9	4.0
20°-30°	392.7	6.1
30°-40°	571.0	8.9
40°-50°	840.4	13.1
50°-60°	1180.3	18.4
60°-70°	1493.8	23.3
70°-80°	1315.4	20.5
80°-90°	260.1	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°	6408.0	100.0
0°-180°	6408.0	100.0

Coefficient of Utilization

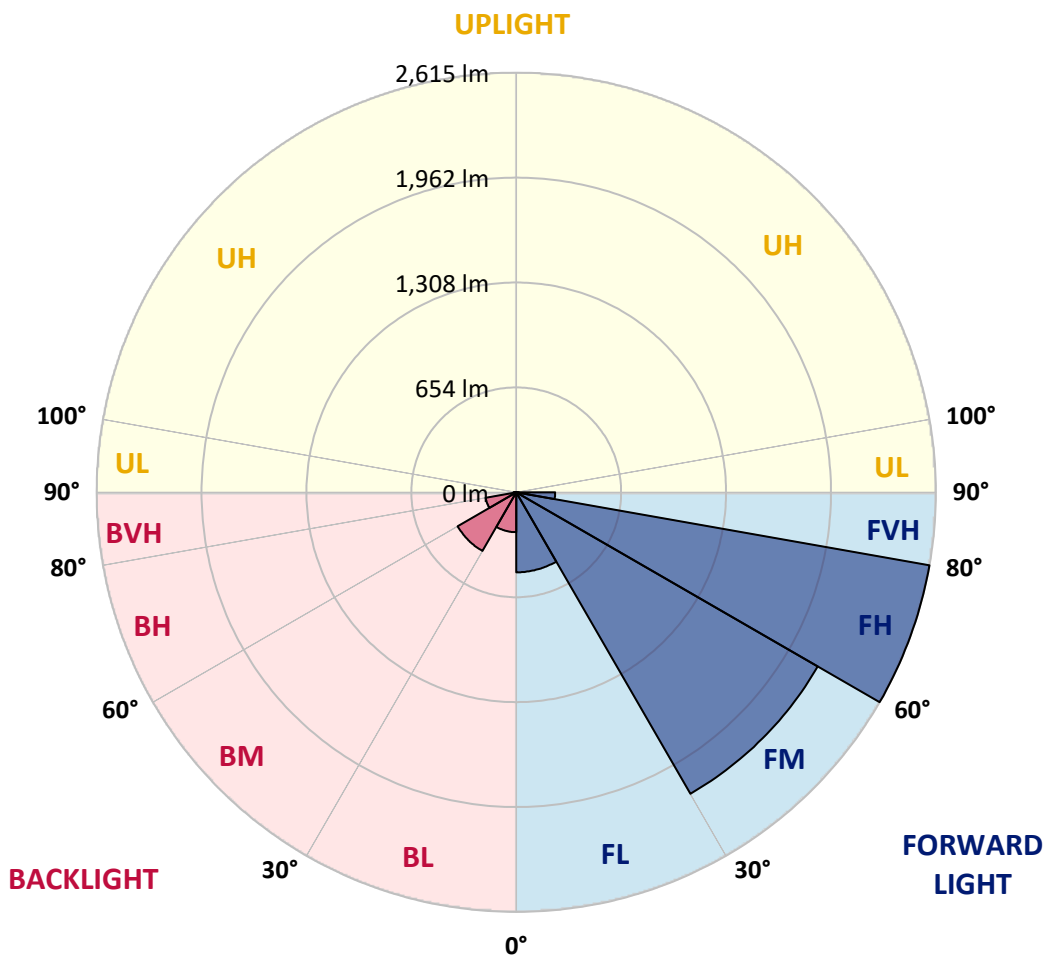


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	498.6	7.8			
FM (30°-60°)	2169.8	33.9			
FH (60°-80°)	2615.4	40.8			G2/5000
FVH (80°-90°)	242.5	3.8			G3/500
BL (0°-30°)	248.4	3.9	B1/500		
BM (30°-60°)	421.9	6.6	B1/1000		
BH (60°-80°)	193.8	3.0	B1/500		G1/500
BVH (80°-90°)	17.6	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-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1
2.5°	1167.7	1167.9	1167.7	1165.9	1161.6	1158.0	1155.0	1150.7	1141.3	1134.0	1123.2
5°	1178.7	1177.4	1176.5	1173.1	1166.3	1162.2	1156.6	1148.5	1132.9	1118.5	1100.8
7.5°	1173.5	1172.0	1169.9	1165.9	1158.2	1154.8	1146.9	1136.3	1117.6	1098.6	1073.3
10°	1157.5	1157.1	1156.2	1155.2	1148.7	1146.0	1138.8	1127.5	1109.0	1086.0	1056.4
12.5°	1139.7	1140.8	1144.4	1149.2	1146.2	1144.9	1140.4	1132.7	1113.7	1088.9	1053.2
15°	1128.4	1131.5	1141.3	1153.7	1156.2	1155.7	1154.6	1149.6	1129.5	1102.0	1060.4
17.5°	1124.6	1129.7	1148.3	1168.8	1176.0	1177.6	1178.0	1169.5	1147.1	1118.0	1067.9
20°	1131.5	1138.1	1165.2	1193.4	1204.9	1205.8	1203.8	1188.9	1163.8	1131.8	1072.0
22.5°	1152.8	1158.6	1192.5	1224.3	1237.4	1238.8	1232.7	1210.1	1181.4	1148.0	1077.6
25°	1193.6	1200.8	1234.7	1266.5	1273.3	1273.5	1264.7	1236.7	1204.5	1170.8	1089.8
27.5°	1246.9	1254.1	1284.6	1315.7	1312.1	1310.1	1298.1	1270.1	1234.5	1202.2	1111.5
30°	1306.3	1314.2	1343.0	1365.2	1356.6	1352.5	1342.8	1306.7	1276.2	1245.1	1144.6
32.5°	1367.7	1374.9	1400.2	1415.3	1404.4	1402.6	1388.0	1355.0	1330.6	1310.5	1198.4
35°	1430.6	1435.8	1460.7	1469.2	1454.8	1454.3	1450.3	1420.0	1404.7	1414.2	1276.5
37.5°	1495.0	1496.3	1517.5	1518.0	1513.7	1515.5	1519.8	1500.8	1505.1	1534.7	1378.0
40°	1552.3	1555.9	1571.3	1576.0	1583.4	1589.8	1611.2	1598.8	1632.0	1684.3	1504.4
42.5°	1594.7	1601.7	1626.3	1638.5	1662.7	1672.6	1702.9	1714.4	1781.2	1859.7	1654.8
45°	1630.6	1641.5	1681.0	1706.0	1746.9	1764.2	1807.6	1846.2	1949.8	2050.0	1813.0
47.5°	1669.4	1683.2	1732.6	1780.5	1836.0	1855.7	1934.4	1992.2	2129.7	2241.4	1962.2
50°	1726.6	1737.2	1785.5	1860.6	1929.9	1955.2	2064.2	2147.1	2312.5	2423.8	2091.5
52.5°	1806.2	1802.2	1843.0	1948.4	2041.4	2072.6	2202.8	2311.9	2497.8	2588.8	2200.8
55°	1886.4	1879.6	1908.3	2040.3	2171.5	2204.2	2355.4	2477.3	2674.1	2737.3	2284.5
57.5°	1975.5	1962.7	1986.8	2143.9	2319.5	2358.6	2526.3	2653.1	2847.5	2857.4	2337.8
60°	2067.4	2050.0	2077.1	2272.4	2507.6	2553.6	2726.3	2824.7	3010.9	2953.6	2355.0
62.5°	2147.8	2135.6	2177.3	2415.7	2719.5	2770.1	2922.7	3007.1	3172.1	2993.5	2293.1
65°	2218.0	2220.0	2292.2	2576.8	2955.8	3009.8	3147.9	3231.9	3298.9	2969.8	2148.4
67.5°	2301.7	2313.2	2436.5	2789.0	3253.3	3312.5	3475.7	3477.0	3369.8	2830.8	1863.6
70°	2423.8	2447.5	2634.9	3083.4	3676.3	3757.6	3883.6	3621.0	3270.3	2453.8	1466.3
72.5°	2532.2	2576.4	2845.9	3420.1	4191.9	4253.5	4122.1	3538.0	2854.3	1839.0	913.5
74°	2488.1	2543.0	2884.3	3586.1	4386.0	4415.6	4041.6	3295.6	2379.8	1273.5	530.9
75°	2393.3	2452.9	2828.3	3584.5	4361.4	4344.9	3847.0	3018.6	1959.9	868.6	353.3
77.5°	1931.5	1994.5	2383.2	3072.1	3576.1	3560.5	2955.2	2025.0	858.4	284.9	179.4
80°	1123.0	1171.0	1479.4	1950.9	2411.4	2439.6	1943.5	1002.0	337.7	160.0	121.7
82.5°	498.8	532.0	714.6	995.9	1455.2	1491.6	1017.8	525.0	208.6	97.3	73.1
85°	327.3	351.9	433.8	474.2	693.0	717.8	498.2	408.8	137.7	53.5	53.7
87.5°	235.4	259.1	322.3	281.5	318.0	301.1	271.1	378.3	55.3	30.5	18.1
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°	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1
2.5°	1118.5	1114.8	1106.7	1091.4	1082.8	1075.6	1063.6	1056.6	1053.4	1053.2	1054.6
5°	1090.7	1082.3	1061.3	1035.6	1015.1	996.3	973.1	959.1	949.2	943.3	944.9
7.5°	1058.4	1045.3	1012.4	971.3	938.3	902.0	866.1	844.7	828.0	815.5	817.8
10°	1036.3	1018.2	970.2	911.0	856.2	803.3	753.9	724.3	700.9	682.8	684.2
12.5°	1028.8	1004.5	937.9	858.9	781.9	709.7	645.1	599.7	575.6	555.1	556.6
15°	1030.0	997.2	910.8	811.9	715.1	624.1	545.8	492.8	460.0	445.8	446.0
17.5°	1030.9	988.9	882.3	761.6	649.0	544.2	459.1	405.4	374.5	361.4	361.6
20°	1027.9	975.3	847.1	703.8	579.9	470.9	388.5	342.9	319.4	309.2	309.2
22.5°	1024.1	959.3	807.4	645.8	511.7	407.2	337.9	303.1	289.6	282.8	282.6
25°	1025.9	947.4	766.8	586.2	449.0	356.4	304.3	281.3	272.2	267.9	267.7
27.5°	1035.6	941.7	729.3	526.8	394.1	318.3	281.7	265.4	259.6	256.9	256.9
30°	1053.2	941.7	690.3	476.3	348.5	290.1	264.3	253.3	249.2	247.4	247.4
32.5°	1083.9	946.9	652.6	426.2	312.2	267.9	249.9	242.4	239.3	238.4	238.4
35°	1136.7	964.5	615.8	378.8	282.8	249.9	236.1	231.8	229.6	229.3	230.0
37.5°	1211.0	1000.4	581.2	343.8	262.1	235.2	224.6	221.2	219.9	221.0	221.9
40°	1304.5	1049.2	549.9	312.2	246.3	223.5	214.0	211.7	211.1	212.6	214.0
42.5°	1417.3	1115.1	524.1	289.4	234.1	213.5	205.0	202.2	201.6	203.4	205.2
45°	1539.4	1185.9	506.1	272.4	224.6	206.1	197.1	194.1	192.8	193.7	195.7
47.5°	1650.5	1253.0	498.8	260.5	215.6	199.8	190.1	186.4	184.2	183.7	185.3
50°	1744.2	1302.9	502.2	253.3	208.3	192.8	183.3	179.2	175.8	173.8	174.9
52.5°	1812.3	1334.2	505.4	250.1	202.7	185.1	175.8	172.0	167.5	164.1	164.1
55°	1861.8	1341.5	498.4	247.6	198.4	176.7	167.5	163.9	159.4	155.5	155.1
57.5°	1881.2	1321.2	472.4	244.0	195.5	168.8	158.7	156.0	152.1	147.6	147.4
60°	1855.0	1258.4	422.3	236.3	191.6	162.3	149.9	148.1	146.3	142.0	141.8
62.5°	1749.8	1120.7	357.5	220.8	184.0	155.3	141.8	142.7	142.9	139.9	139.5
65°	1559.1	931.6	294.3	200.4	172.5	146.9	133.4	137.7	140.2	139.7	139.0
67.5°	1281.9	725.0	249.4	179.0	157.3	135.4	124.4	129.3	131.4	133.0	132.5
70°	951.4	511.3	206.3	156.4	139.0	121.9	112.6	115.1	113.8	115.6	116.2
72.5°	530.4	306.8	168.2	133.9	120.1	106.1	99.5	99.1	96.2	96.2	96.2
74°	318.3	225.0	147.8	119.9	108.6	95.7	90.1	88.0	85.3	85.5	85.3
75°	256.0	193.4	135.7	110.6	100.4	89.6	84.0	81.3	79.2	79.2	79.0
77.5°	161.6	146.9	109.2	88.0	80.4	73.8	70.0	66.4	66.4	66.1	65.9
80°	122.1	116.9	85.1	66.6	61.6	56.7	54.2	52.6	52.6	53.3	53.0
82.5°	83.7	88.0	59.8	46.5	44.0	40.4	40.0	40.2	39.5	38.6	38.4
85°	61.2	66.1	40.4	29.3	26.9	24.6	26.4	27.3	26.2	24.2	23.2
87.5°	23.5	43.3	21.7	12.2	11.3	9.7	11.3	11.7	12.6	9.9	10.2
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)