

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: P319996

Luminaire Tested: **GAN-SA2B-740-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319996
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-SA2B-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11111 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

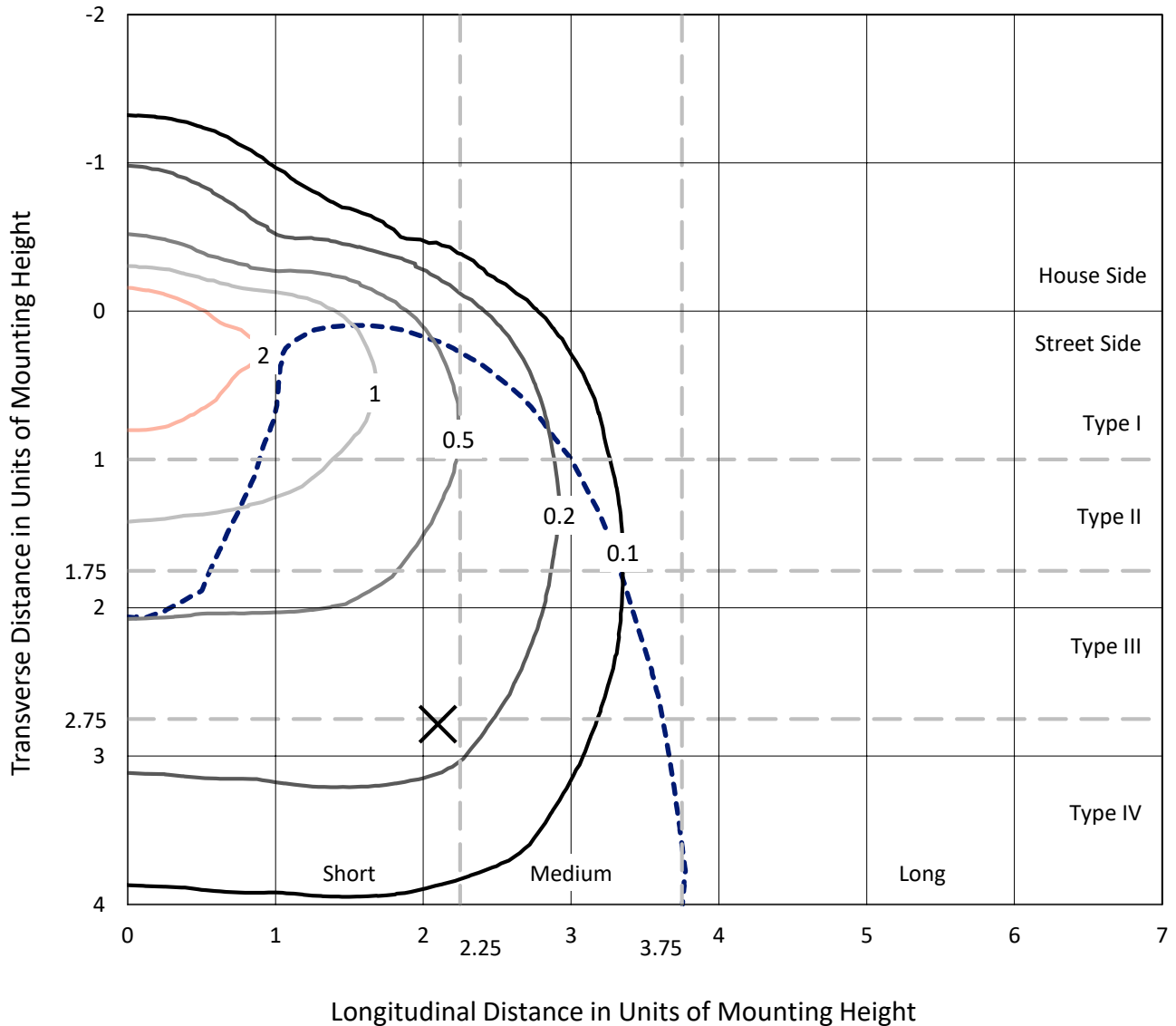
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

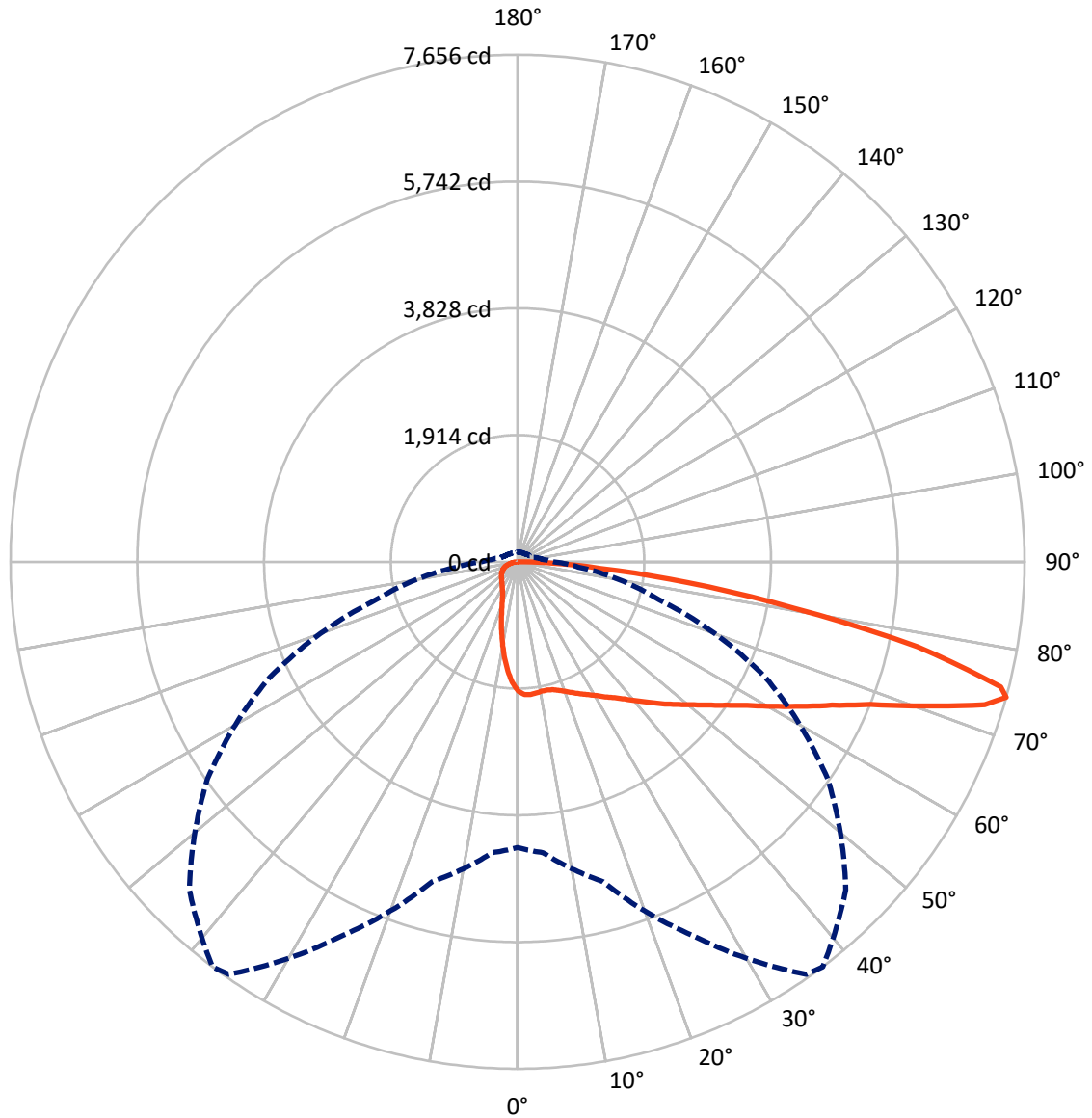
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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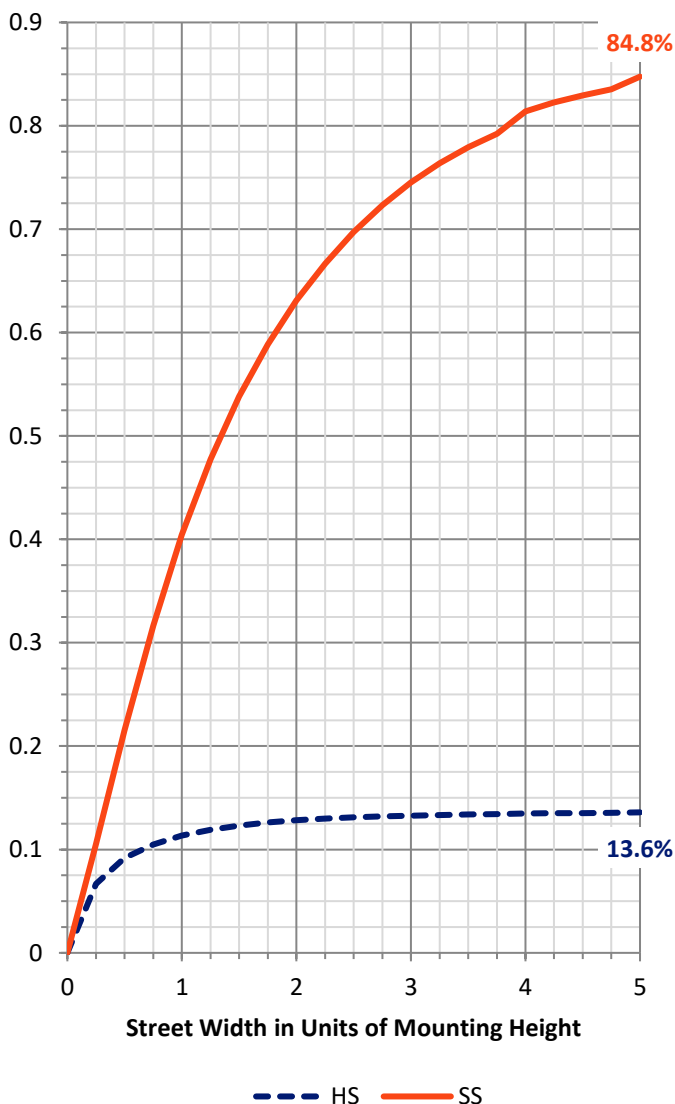
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1528.8	0.0	1528.8
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	9582.2	0.0	9582.2
	% Fixture	86.2	0.0	86.2
Total	Lumens	11111.0	0.0	11111.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.4	1.6
10°-20°	441.9	4.0
20°-30°	680.9	6.1
30°-40°	990.1	8.9
40°-50°	1457.3	13.1
50°-60°	2046.5	18.4
60°-70°	2590.2	23.3
70°-80°	2280.8	20.5
80°-90°	451.0	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°	11111.0	100.0
0°-180°	11111.0	100.0

Coefficient of Utilization



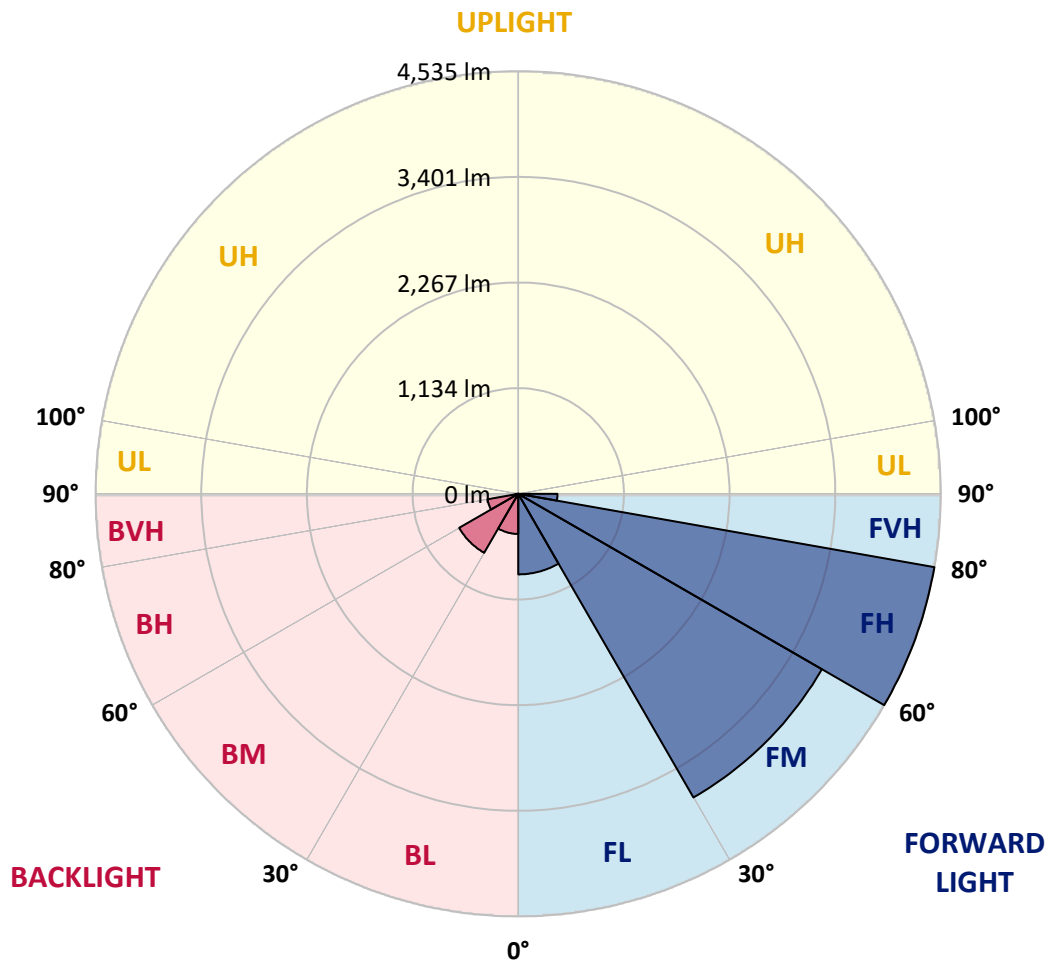
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	864.6	7.8			
FM (30°-60°)	3762.3	33.9			
FH (60°-80°)	4534.9	40.8			G2/5000
FVH (80°-90°)	420.4	3.8			G3/500
BL (0°-30°)	430.6	3.9	B1/500		
BM (30°-60°)	731.6	6.6	B1/1000		
BH (60°-80°)	336.0	3.0	B1/500		G1/500
BVH (80°-90°)	30.5	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°	1957.7	1957.7	1957.7	1957.7	1957.7	1957.7	1957.7	1957.7	1957.7	1957.7	1957.7
2.5°	2024.6	2025.0	2024.6	2021.5	2014.1	2007.8	2002.7	1995.3	1978.9	1966.3	1947.5
5°	2043.8	2041.5	2039.9	2034.0	2022.3	2015.2	2005.5	1991.4	1964.4	1939.3	1908.8
7.5°	2034.8	2032.1	2028.6	2021.5	2008.2	2002.3	1988.6	1970.2	1937.8	1904.9	1861.0
10°	2007.0	2006.2	2004.7	2003.1	1991.8	1987.1	1974.5	1955.0	1922.9	1883.0	1831.7
12.5°	1976.1	1978.1	1984.3	1992.5	1987.5	1985.1	1977.3	1964.0	1931.1	1888.0	1826.2
15°	1956.5	1962.0	1978.9	2000.4	2004.7	2003.9	2001.9	1993.3	1958.5	1910.7	1838.7
17.5°	1949.9	1958.9	1991.0	2026.6	2039.1	2041.9	2042.6	2027.8	1989.0	1938.5	1851.6
20°	1962.0	1973.4	2020.3	2069.3	2089.2	2090.8	2087.3	2061.4	2018.0	1962.4	1858.7
22.5°	1998.8	2009.0	2067.7	2122.9	2145.6	2147.9	2137.4	2098.2	2048.5	1990.6	1868.5
25°	2069.7	2082.2	2140.9	2196.1	2207.8	2208.2	2192.9	2144.4	2088.4	2030.1	1889.6
27.5°	2162.0	2174.5	2227.4	2281.4	2275.1	2271.6	2250.9	2202.3	2140.5	2084.5	1927.2
30°	2265.0	2278.7	2328.7	2367.1	2352.2	2345.2	2328.4	2265.7	2212.9	2158.9	1984.7
32.5°	2371.4	2383.9	2427.8	2454.0	2435.2	2432.1	2406.6	2349.5	2307.2	2272.4	2077.9
35°	2480.6	2489.6	2532.7	2547.5	2522.5	2521.7	2514.7	2462.2	2435.6	2452.0	2213.3
37.5°	2592.2	2594.5	2631.3	2632.1	2624.6	2627.8	2635.2	2602.3	2609.8	2661.0	2389.4
40°	2691.6	2697.8	2724.4	2732.7	2745.6	2756.5	2793.7	2772.2	2829.7	2920.5	2608.6
42.5°	2765.1	2777.3	2819.9	2841.1	2883.0	2900.2	2952.6	2972.6	3088.4	3224.6	2869.3
45°	2827.4	2846.2	2914.7	2958.1	3028.9	3059.1	3134.2	3201.1	3380.8	3554.6	3143.6
47.5°	2894.7	2918.6	3004.3	3087.3	3183.5	3217.6	3354.2	3454.4	3692.7	3886.5	3402.3
50°	2993.7	3012.1	3095.9	3226.2	3346.4	3390.2	3579.2	3722.9	4009.8	4202.7	3626.6
52.5°	3131.9	3124.8	3195.7	3378.4	3539.7	3593.7	3819.5	4008.6	4331.1	4488.8	3816.0
55°	3270.8	3259.1	3308.8	3537.7	3765.1	3821.9	4084.1	4295.5	4636.8	4746.3	3961.2
57.5°	3425.4	3403.1	3445.0	3717.4	4021.9	4089.6	4380.4	4600.4	4937.3	4954.6	4053.6
60°	3584.7	3554.6	3601.5	3940.1	4347.9	4427.8	4727.2	4897.8	5220.7	5121.3	4083.3
62.5°	3724.0	3702.9	3775.3	4188.6	4715.4	4803.1	5067.7	5214.1	5500.2	5190.6	3976.1
65°	3845.8	3849.3	3974.5	4468.1	5125.2	5218.7	5458.3	5603.9	5720.1	5149.5	3725.2
67.5°	3991.0	4010.9	4224.6	4836.0	5641.1	5743.6	6026.6	6028.9	5843.0	4908.4	3231.3
70°	4202.7	4243.8	4568.7	5346.3	6374.5	6515.4	6733.8	6278.6	5670.4	4254.8	2542.4
72.5°	4390.6	4467.3	4934.6	5930.3	7268.4	7375.3	7147.5	6134.6	4949.1	3188.6	1583.9
74°	4314.3	4409.4	5001.1	6218.0	7605.0	7656.3	7007.8	5714.2	4126.4	2208.2	920.5
75°	4149.9	4253.2	4904.1	6215.2	7562.4	7533.8	6670.4	5234.0	3398.4	1506.1	612.5
77.5°	3349.1	3458.3	4132.3	5326.8	6200.7	6173.7	5124.0	3511.1	1488.4	493.9	311.2
80°	1947.1	2030.5	2565.1	3382.8	4181.2	4230.1	3369.8	1737.4	585.5	277.5	211.0
82.5°	865.0	922.5	1239.1	1726.8	2523.3	2586.3	1764.8	910.4	361.6	168.7	126.8
85°	567.5	610.2	752.2	822.3	1201.6	1244.6	863.8	708.8	238.7	92.8	93.1
87.5°	408.2	449.3	558.9	488.1	551.5	522.1	470.1	656.0	95.9	52.8	31.3
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°	1957.7	1957.7	1957.7	1957.7	1957.7	1957.7	1957.7	1957.7	1957.7	1957.7	1957.7
2.5°	1939.3	1933.1	1919.0	1892.4	1877.5	1865.0	1844.2	1832.1	1826.6	1826.2	1828.6
5°	1891.2	1876.7	1840.3	1795.7	1760.1	1727.6	1687.3	1663.0	1645.8	1635.6	1638.3
7.5°	1835.2	1812.5	1755.4	1684.1	1627.0	1564.0	1501.7	1464.6	1435.6	1414.1	1418.0
10°	1796.9	1765.5	1682.2	1579.6	1484.5	1392.9	1307.2	1256.0	1215.3	1183.9	1186.3
12.5°	1783.9	1741.7	1626.2	1489.2	1355.8	1230.5	1118.6	1039.9	998.0	962.4	965.2
15°	1785.9	1729.1	1579.2	1407.8	1239.9	1082.2	946.4	854.4	797.6	773.0	773.4
17.5°	1787.5	1714.7	1529.9	1320.5	1125.2	943.6	796.1	702.9	649.3	626.6	627.0
20°	1782.4	1691.2	1468.9	1220.3	1005.5	816.4	673.6	594.5	553.8	536.2	536.2
22.5°	1775.7	1663.4	1400.0	1119.8	887.3	706.1	585.9	525.6	502.1	490.4	490.0
25°	1778.9	1642.6	1329.5	1016.4	778.5	618.0	527.6	487.7	472.0	464.6	464.2
27.5°	1795.7	1632.9	1264.6	913.5	683.4	551.9	488.5	460.3	450.1	445.4	445.4
30°	1826.2	1632.9	1196.9	825.8	604.3	502.9	458.3	439.1	432.1	429.0	429.0
32.5°	1879.4	1641.9	1131.5	738.9	541.3	464.6	433.3	420.3	414.9	413.3	413.3
35°	1971.0	1672.4	1067.7	656.7	490.4	433.3	409.4	402.0	398.0	397.6	398.8
37.5°	2099.8	1734.6	1007.8	596.1	454.4	407.8	389.4	383.6	381.2	383.2	384.7
40°	2261.8	1819.2	953.4	541.3	427.0	387.5	371.0	367.1	365.9	368.7	371.0
42.5°	2457.5	1933.4	908.8	501.8	405.9	370.3	355.4	350.7	349.5	352.6	355.8
45°	2669.3	2056.3	877.5	472.4	389.4	357.3	341.7	336.6	334.2	335.8	339.3
47.5°	2861.8	2172.6	865.0	451.7	373.8	346.4	329.5	323.3	319.4	318.6	321.3
50°	3024.2	2259.1	870.8	439.1	361.2	334.2	317.8	310.8	304.9	301.4	303.3
52.5°	3142.4	2313.5	876.3	433.7	351.5	320.9	304.9	298.2	290.4	284.5	284.5
55°	3228.2	2326.0	864.2	429.4	344.0	306.5	290.4	284.1	276.3	269.7	268.9
57.5°	3261.8	2290.8	819.2	423.1	338.9	292.8	275.1	270.4	263.8	256.0	255.6
60°	3216.4	2182.0	732.3	409.8	332.3	281.4	259.9	256.7	253.6	246.2	245.8
62.5°	3034.0	1943.2	620.0	382.8	319.0	269.3	245.8	247.4	247.7	242.7	241.9
65°	2703.3	1615.3	510.4	347.6	299.0	254.8	231.3	238.7	243.1	242.3	241.1
67.5°	2222.7	1257.1	432.5	310.4	272.8	234.8	215.7	224.3	227.8	230.5	229.7
70°	1649.7	886.5	357.7	271.2	241.1	211.3	195.3	199.6	197.3	200.4	201.6
72.5°	919.8	531.9	291.6	232.1	208.2	184.0	172.6	171.8	166.7	166.7	166.7
74°	551.9	390.2	256.4	207.8	188.3	165.9	156.2	152.6	147.9	148.3	147.9
75°	443.8	335.4	235.2	191.8	174.2	155.4	145.6	140.9	137.4	137.4	137.0
77.5°	280.2	254.8	189.4	152.6	139.3	128.0	121.3	115.1	115.1	114.7	114.3
80°	211.7	202.7	147.6	115.5	106.8	98.2	93.9	91.2	91.2	92.4	92.0
82.5°	145.2	152.6	103.7	80.6	76.3	70.1	69.3	69.7	68.5	66.9	66.5
85°	106.1	114.7	70.1	50.9	46.6	42.7	45.8	47.4	45.4	41.9	40.3
87.5°	40.7	75.1	37.6	21.1	19.6	16.8	19.6	20.4	21.9	17.2	17.6
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)