

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: P318696

Luminaire Tested: **GAN-SA2D-730-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318696  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2D-730-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14544 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

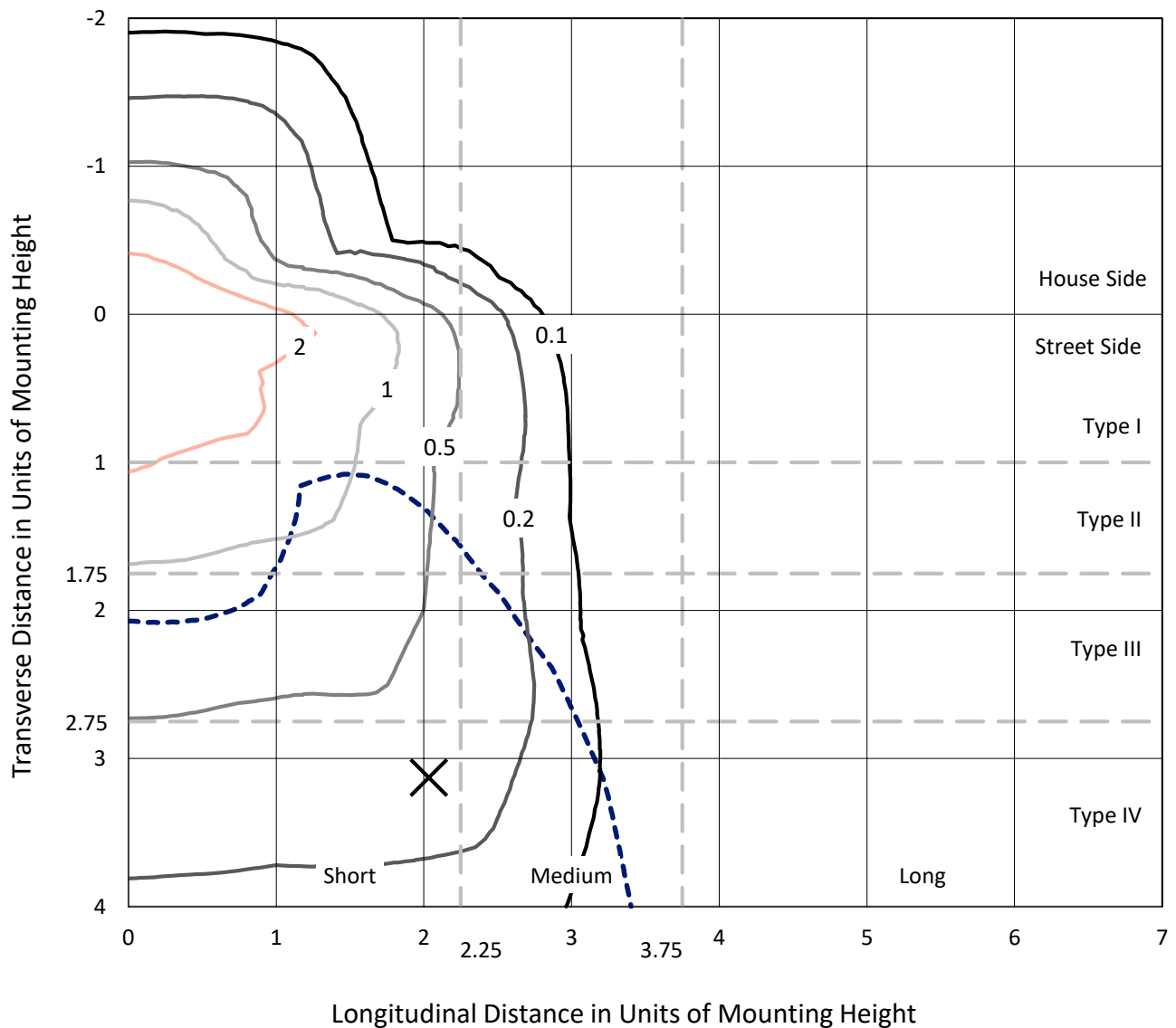
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

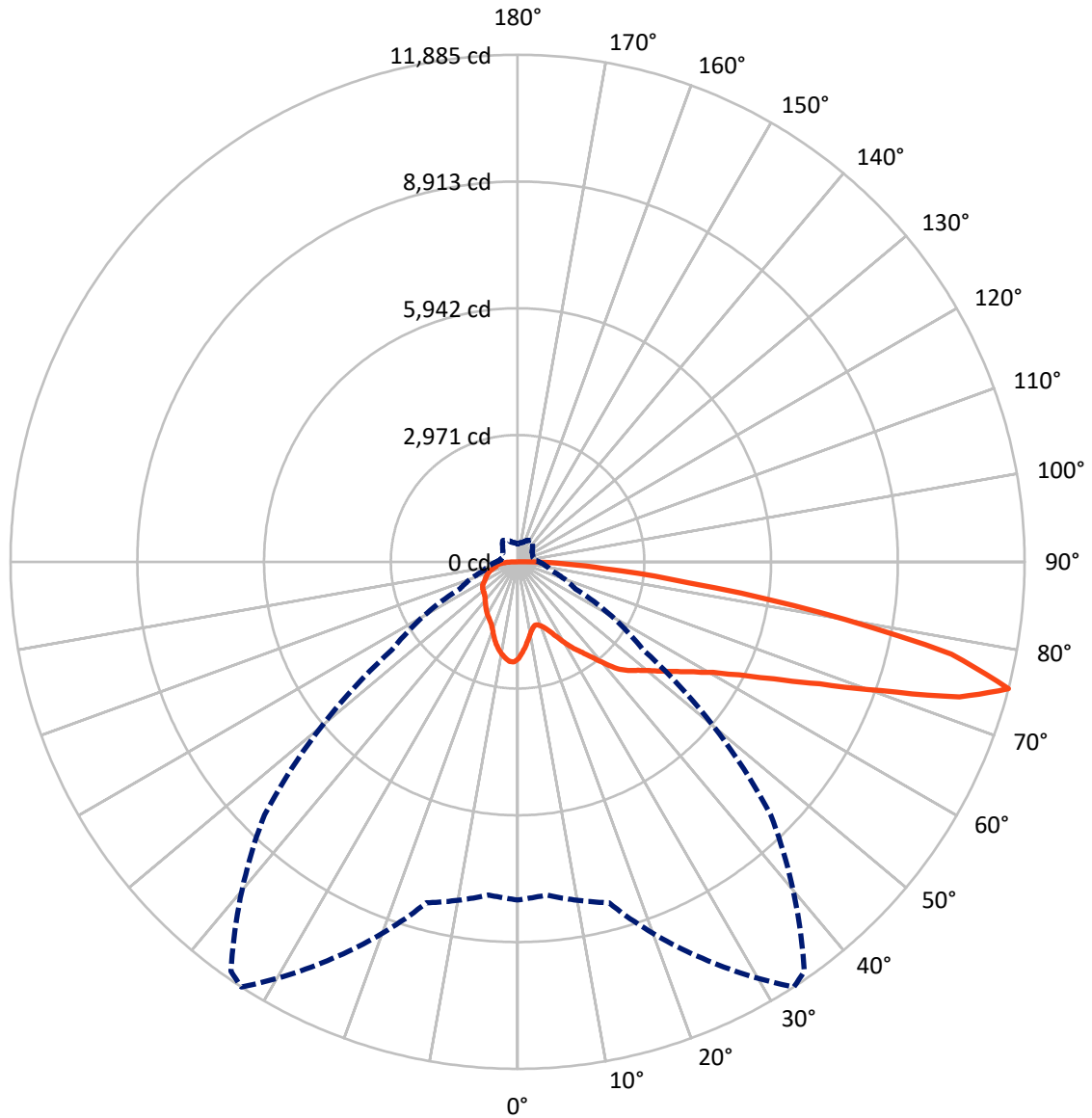
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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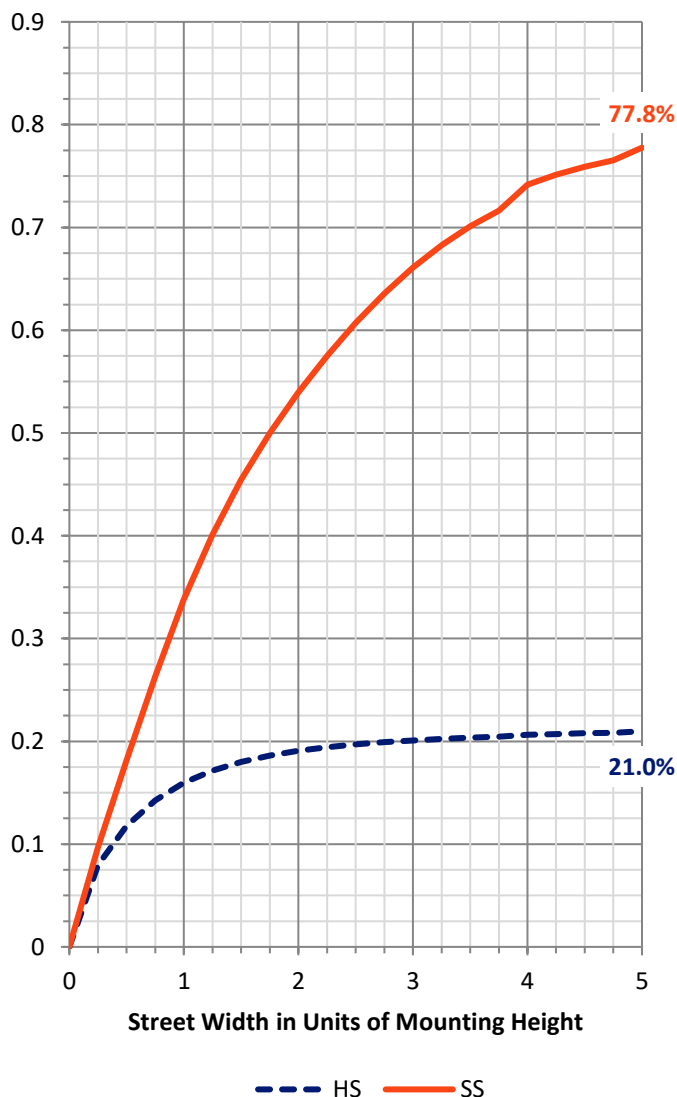
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3123.0	0.0	3123.0
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	11421.0	0.0	11421.0
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	14544.0	0.0	14544.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.6	1.4
10°-20°	556.8	3.8
20°-30°	909.4	6.3
30°-40°	1354.3	9.3
40°-50°	1942.4	13.4
50°-60°	2666.6	18.3
60°-70°	3338.5	23.0
70°-80°	3020.2	20.8
80°-90°	550.1	3.8
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°	14544.0	100.0
0°-180°	14544.0	100.0

**Coefficient of Utilization**

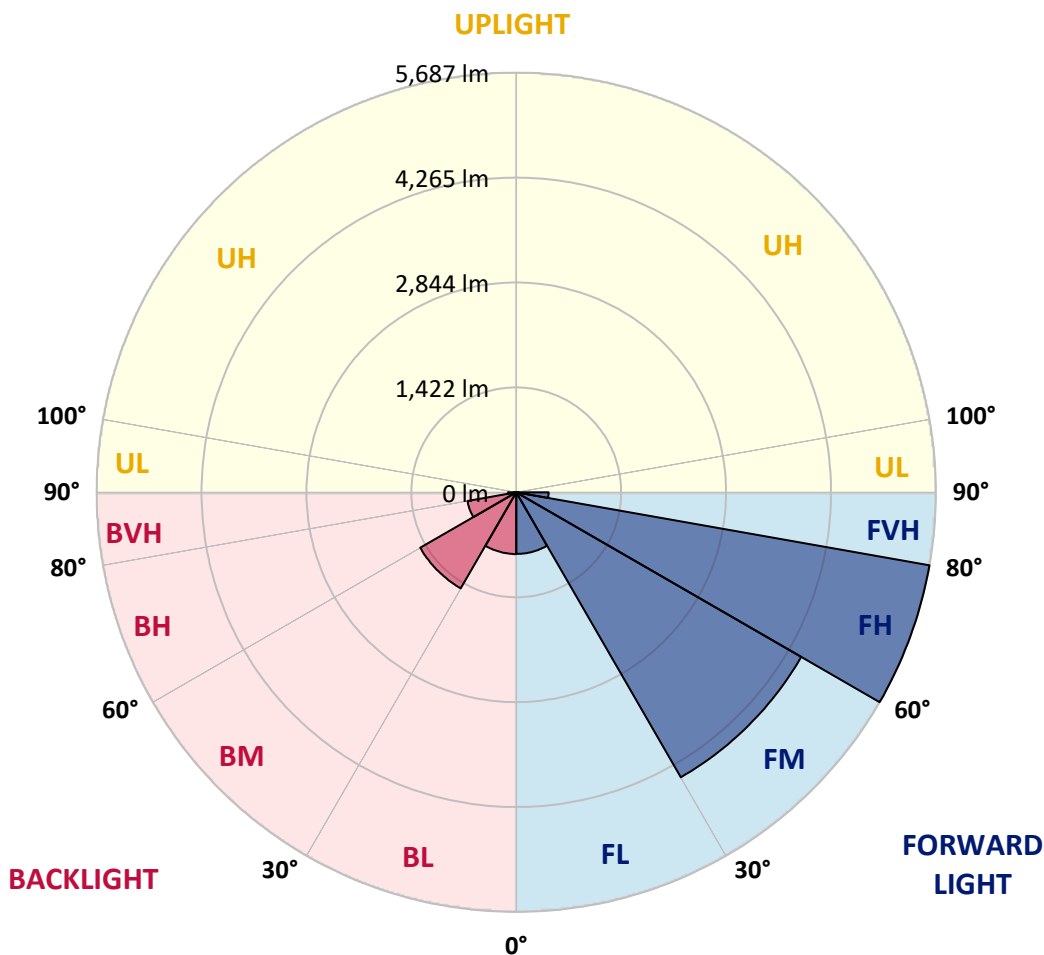


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	835.3	5.7			
FM (30°-60°)	4460.3	30.7			
FH (60°-80°)	5687.2	39.1			G3/7500
FVH (80°-90°)	438.1	3.0			G3/500
BL (0°-30°)	836.5	5.8	B2/1000		
BM (30°-60°)	1503.0	10.3	B2/2500		
BH (60°-80°)	671.5	4.6	B2/1000		G2/1000
BVH (80°-90°)	112.0	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3
2.5°	2111.0	2103.0	2118.1	2120.1	2133.1	2138.2	2156.3	2184.4	2207.5	2234.1	2258.2
5°	1919.6	1914.1	1935.2	1950.3	1978.9	1991.0	2033.7	2093.5	2146.7	2207.0	2261.8
7.5°	1737.8	1734.7	1758.4	1792.5	1825.7	1842.3	1916.1	2003.0	2091.9	2189.4	2273.3
10°	1584.5	1583.5	1606.1	1639.8	1688.5	1707.1	1802.6	1917.1	2041.7	2175.8	2292.9
12.5°	1498.6	1502.1	1512.7	1540.8	1586.0	1604.6	1710.6	1845.3	1999.5	2171.3	2321.5
15°	1519.7	1525.3	1507.2	1506.2	1538.3	1552.9	1652.4	1794.0	1969.4	2178.9	2363.2
17.5°	1609.7	1610.7	1562.9	1532.8	1552.4	1559.9	1634.3	1764.9	1951.8	2195.9	2415.5
20°	1736.3	1733.7	1649.3	1599.1	1609.7	1611.7	1659.9	1765.4	1950.3	2225.6	2483.3
22.5°	1904.1	1885.5	1771.9	1703.6	1701.1	1698.1	1725.7	1802.6	1972.4	2273.8	2564.2
25°	2123.1	2105.5	1949.3	1855.8	1835.7	1828.2	1832.2	1881.9	2016.1	2325.6	2654.6
27.5°	2366.8	2336.1	2185.4	2053.3	2011.6	2001.0	1976.9	1994.0	2063.8	2375.3	2762.1
30°	2570.7	2554.1	2422.5	2265.8	2216.5	2201.5	2138.2	2119.6	2132.6	2443.1	2897.8
32.5°	2684.8	2673.7	2593.8	2467.2	2421.5	2400.4	2311.0	2273.8	2243.2	2550.1	3081.7
35°	2822.9	2815.9	2767.7	2675.7	2607.9	2585.8	2516.5	2477.8	2398.9	2697.3	3319.3
37.5°	2998.8	2991.2	2992.2	2917.9	2837.0	2816.4	2770.7	2730.0	2600.9	2890.7	3577.5
40°	3197.7	3183.1	3177.6	3174.1	3122.8	3111.3	3087.2	3031.9	2854.1	3121.8	3832.2
42.5°	3497.1	3445.4	3334.9	3376.6	3427.3	3421.3	3440.9	3361.5	3135.4	3395.1	4080.9
45°	3786.0	3701.1	3510.2	3519.2	3630.3	3663.9	3810.6	3754.4	3440.4	3694.6	4338.1
47.5°	3917.6	3853.3	3691.0	3691.6	3801.6	3871.4	4192.9	4152.7	3760.9	4034.7	4652.1
50°	4064.8	4000.5	3854.8	3909.6	4005.5	4079.9	4562.2	4541.6	4065.8	4407.0	5028.4
52.5°	4225.6	4116.6	4024.1	4122.1	4256.7	4343.2	4931.9	4875.7	4345.7	4781.7	5461.0
55°	4227.6	4198.0	4268.3	4340.1	4541.6	4647.6	5319.3	5170.6	4573.7	5150.0	5813.1
57.5°	4468.2	4420.0	4569.2	4602.4	4865.6	4985.2	5704.6	5427.3	4805.9	5432.3	6003.0
60°	4786.8	4745.6	4867.6	4955.1	5266.5	5426.3	6116.1	5691.1	4988.2	5645.3	5994.0
62.5°	5336.9	5290.2	5288.6	5411.2	5830.7	6016.6	6577.8	5949.8	5060.6	5687.5	5738.3
65°	6142.2	6067.9	5927.7	5986.0	6609.9	6795.3	7093.7	6137.2	4965.1	5461.5	5079.7
67.5°	6925.9	6923.4	6751.1	6870.7	7638.8	7787.5	7681.5	6155.8	4667.2	4674.2	3911.1
70°	7707.1	7717.2	7688.1	8104.0	9028.9	9183.7	8307.5	5906.1	3997.5	3375.5	2343.1
72.5°	8326.1	8323.6	8470.3	9542.9	10833.0	10798.3	8835.0	5149.5	2870.1	1822.2	1119.8
75°	7925.2	7837.8	8274.8	10255.3	11884.5	11715.2	8386.4	3592.1	1489.6	829.4	602.9
77.5°	5169.1	5252.0	5893.5	8471.8	10395.4	10189.4	6152.8	1676.0	701.8	544.1	437.1
80°	1871.9	1959.3	2759.6	4798.8	7162.1	7128.4	3029.9	688.8	474.8	411.0	318.5
82.5°	644.1	676.2	1088.7	2131.1	4043.7	4194.4	1139.9	391.4	345.1	291.4	218.0
85°	252.7	289.4	497.9	1025.4	2039.7	2054.8	461.7	234.1	240.1	190.9	119.6
87.5°	96.0	116.6	238.1	476.3	931.4	855.6	165.3	111.5	136.6	113.5	56.8
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°	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3	2273.3
2.5°	2276.8	2287.4	2309.5	2324.6	2340.6	2345.2	2347.2	2351.2	2355.2	2353.7	2354.2
5°	2290.9	2311.5	2347.2	2362.2	2369.3	2361.2	2345.7	2333.1	2324.0	2319.0	2317.5
7.5°	2314.0	2343.1	2381.3	2378.8	2362.7	2327.1	2286.9	2256.7	2231.6	2222.6	2217.5
10°	2344.6	2378.8	2405.4	2376.8	2330.1	2268.3	2208.0	2161.3	2123.6	2109.0	2106.5
12.5°	2383.8	2418.5	2423.5	2362.7	2285.4	2201.0	2119.1	2057.3	2001.0	1982.9	1978.9
15°	2434.6	2467.2	2436.1	2338.1	2230.1	2116.6	2010.6	1926.7	1867.4	1845.3	1837.2
17.5°	2487.8	2519.0	2438.6	2297.4	2157.8	2016.6	1883.5	1797.5	1729.7	1704.1	1701.1
20°	2551.6	2565.7	2428.0	2239.1	2058.3	1887.0	1746.8	1665.9	1629.7	1611.7	1609.7
22.5°	2630.5	2615.4	2403.9	2160.3	1932.2	1737.3	1623.2	1585.5	1576.5	1572.5	1574.0
25°	2713.9	2667.7	2368.3	2057.3	1772.9	1587.5	1532.8	1543.3	1555.4	1553.9	1553.9
27.5°	2805.8	2720.9	2313.5	1920.6	1596.6	1465.0	1471.5	1510.2	1528.3	1527.8	1527.3
30°	2923.9	2781.2	2243.7	1756.4	1431.8	1378.6	1418.2	1465.5	1490.1	1489.1	1489.6
32.5°	3069.1	2847.5	2148.7	1573.0	1312.7	1314.8	1360.5	1407.2	1435.8	1433.3	1433.8
35°	3238.9	2921.9	2020.1	1392.1	1233.9	1264.0	1300.2	1332.8	1360.0	1356.4	1352.9
37.5°	3423.8	2994.7	1849.3	1230.3	1169.6	1216.8	1246.9	1252.5	1265.0	1256.0	1249.4
40°	3599.6	3050.5	1629.2	1097.7	1104.8	1176.6	1196.2	1174.1	1151.5	1148.5	1139.4
42.5°	3752.8	3069.1	1406.7	991.7	1036.4	1134.4	1146.5	1100.2	1059.5	1040.4	1032.4
45°	3914.6	3075.6	1199.2	902.8	970.6	1096.7	1109.8	1048.0	990.7	949.5	936.0
47.5°	4126.1	3122.8	1037.9	837.0	920.4	1071.6	1090.2	1006.3	931.9	873.2	860.6
50°	4402.9	3216.3	906.8	786.7	887.7	1055.0	1076.1	965.6	883.7	812.9	800.3
52.5°	4710.4	3302.2	800.8	746.0	856.1	1025.9	1058.0	936.5	838.5	757.1	743.5
55°	4925.4	3236.4	715.4	703.8	814.9	984.2	1032.9	911.8	773.7	702.8	690.8
57.5°	4966.6	3011.3	650.6	660.1	765.1	931.9	994.2	857.1	738.5	679.2	666.7
60°	4854.1	2697.8	602.4	619.9	711.9	866.1	921.9	818.4	704.9	654.1	643.6
62.5°	4571.2	2376.8	566.7	583.8	662.1	799.3	876.7	777.7	670.7	625.5	614.9
65°	4000.0	1995.5	532.5	551.6	615.9	741.5	836.0	740.0	637.0	602.4	592.3
67.5°	3019.4	1494.6	500.4	517.5	574.7	691.3	791.8	702.8	604.4	582.3	570.2
70°	1778.0	936.0	463.7	481.8	531.5	639.0	744.5	662.1	563.7	553.6	538.1
72.5°	827.4	563.2	422.0	439.6	477.3	569.2	683.8	608.9	515.5	493.3	472.2
75°	493.8	412.0	372.8	388.3	415.0	494.9	607.4	554.6	469.7	440.6	418.5
77.5°	369.3	315.0	318.5	335.1	356.7	433.1	538.1	511.9	434.6	412.0	396.9
80°	265.8	239.1	259.7	277.8	300.4	393.9	515.5	473.3	392.9	362.7	348.7
82.5°	177.3	171.8	195.4	214.0	236.1	344.6	484.3	414.5	335.6	297.4	266.3
85°	98.0	103.5	131.6	139.7	158.8	242.7	396.9	333.1	252.7	203.5	194.4
87.5°	40.7	47.7	70.8	68.3	84.4	144.7	261.2	201.0	160.8	120.1	93.4
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)