

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: P317796

Luminaire Tested: **GAN-SA2B-750-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-750-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11955 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

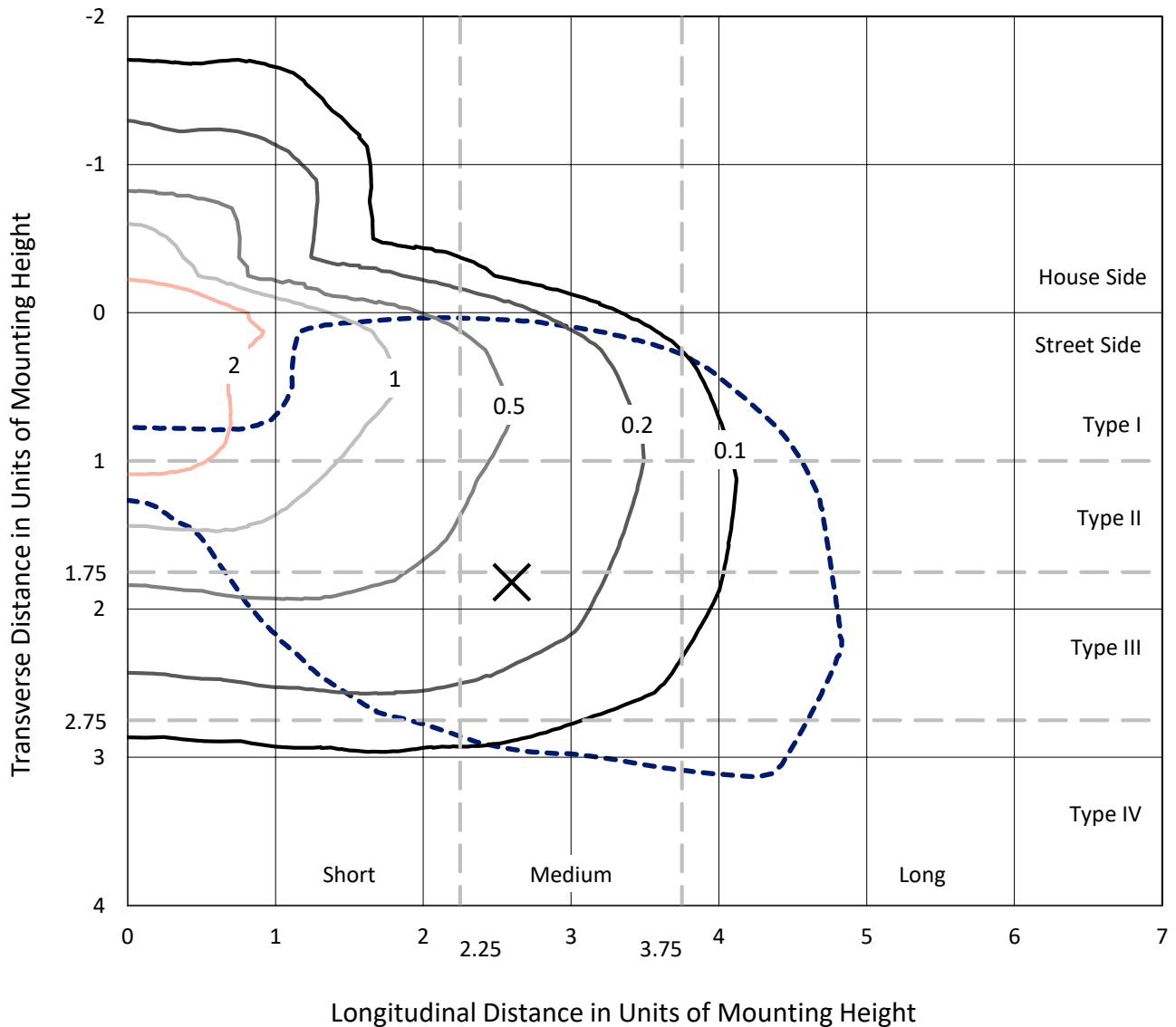
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

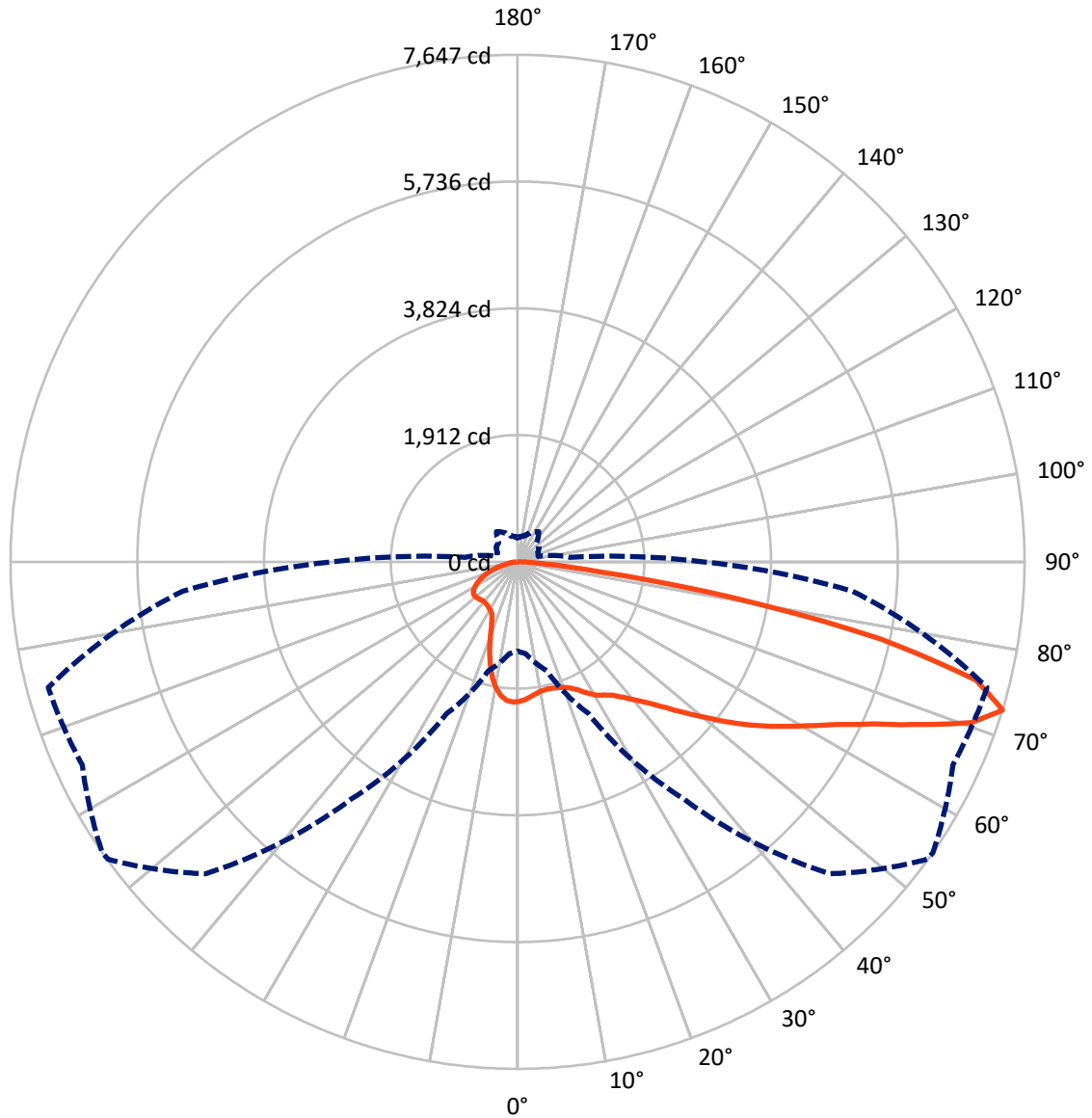
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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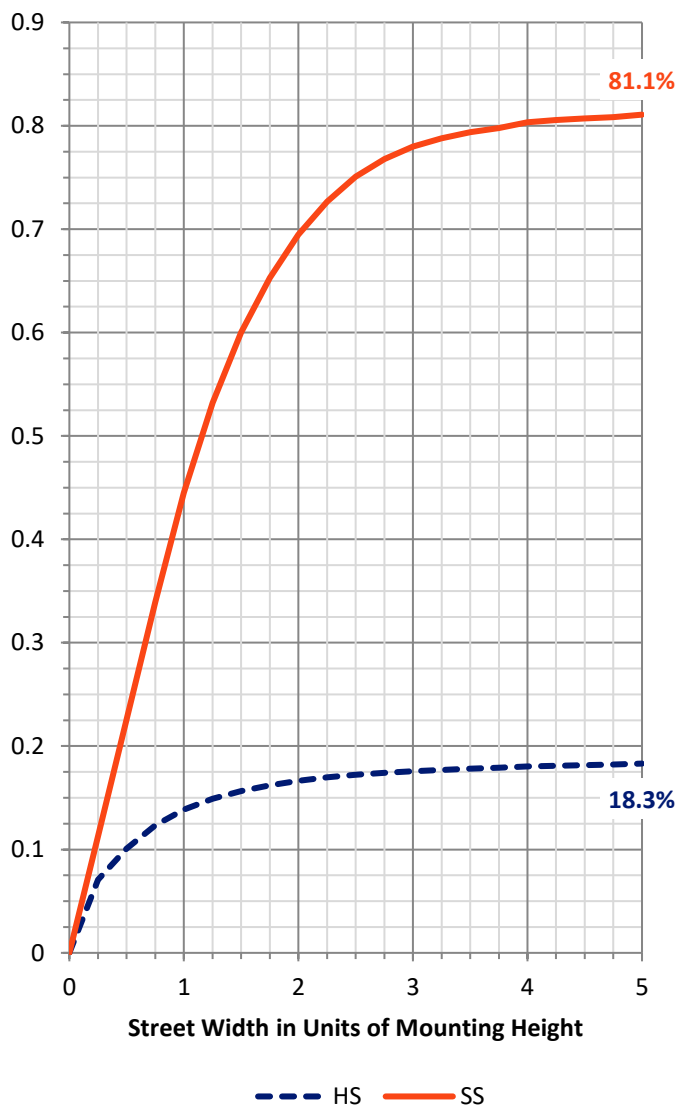
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2222.0	0.0	2222.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9733.0	0.0	9733.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	11955.0	0.0	11955.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.8	1.6
10°-20°	508.0	4.2
20°-30°	837.6	7.0
30°-40°	1238.9	10.4
40°-50°	1729.3	14.5
50°-60°	2251.6	18.8
60°-70°	2767.2	23.1
70°-80°	2169.1	18.1
80°-90°	262.5	2.2
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°	11955.0	100.0
0°-180°	11955.0	100.0

Coefficient of Utilization

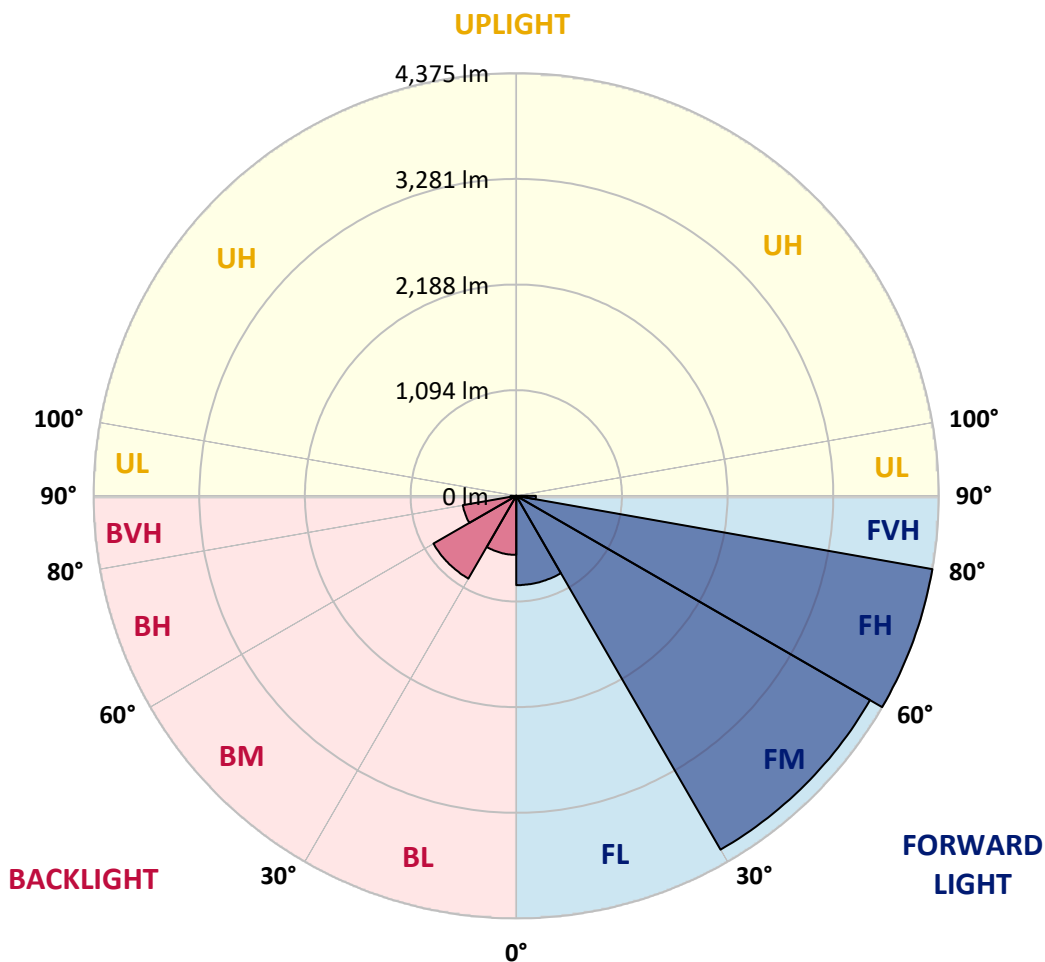


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	925.0	7.7			
FM (30°-60°)	4229.9	35.4			
FH (60°-80°)	4375.1	36.6			G2/5000
FVH (80°-90°)	203.0	1.7			G2/225
BL (0°-30°)	611.4	5.1	B2/1000		
BM (30°-60°)	990.0	8.3	B1/1000		
BH (60°-80°)	561.2	4.7	B2/1000		G2/1000
BVH (80°-90°)	59.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2108.6	2108.6	2108.6	2108.6	2108.6	2108.6	2108.6	2108.6	2108.6	2108.6	2108.6
2.5°	2040.0	2035.1	2041.2	2049.7	2058.9	2071.5	2078.7	2082.0	2094.5	2099.3	2109.8
5°	1945.5	1943.0	1953.1	1967.7	1988.3	2017.3	2040.8	2045.2	2078.3	2101.7	2123.1
7.5°	1876.8	1876.8	1888.5	1905.9	1928.9	1968.1	2001.2	2007.3	2063.4	2113.9	2153.4
10°	1822.3	1824.3	1838.1	1858.7	1885.7	1927.3	1971.3	1978.2	2059.3	2142.1	2205.1
12.5°	1786.0	1790.8	1803.3	1821.9	1855.4	1905.9	1961.6	1970.9	2067.8	2182.5	2267.3
15°	1809.0	1817.1	1818.3	1825.9	1844.5	1899.4	1967.3	1977.0	2086.0	2223.7	2338.0
17.5°	1909.9	1912.8	1900.2	1884.1	1875.2	1910.3	1984.2	1994.3	2107.8	2264.5	2405.8
20°	2063.4	2061.8	2034.7	1991.1	1945.9	1951.5	2012.1	2022.6	2137.3	2300.4	2473.6
22.5°	2257.2	2251.5	2210.0	2129.6	2052.5	2020.2	2061.0	2069.8	2181.7	2351.7	2546.3
25°	2492.2	2479.7	2424.8	2317.0	2203.5	2120.3	2134.4	2142.9	2246.3	2409.0	2612.9
27.5°	2740.1	2727.6	2657.8	2527.3	2376.3	2246.7	2235.8	2243.1	2319.8	2451.4	2662.2
30°	2999.4	2986.0	2922.2	2776.1	2559.6	2377.5	2330.3	2333.1	2371.5	2474.4	2702.6
32.5°	3259.8	3247.3	3175.8	3006.2	2758.7	2518.1	2398.5	2394.9	2402.6	2498.3	2748.2
35°	3523.9	3528.7	3445.2	3257.4	2979.2	2674.3	2479.3	2471.6	2454.7	2547.1	2812.8
37.5°	3806.6	3803.3	3695.1	3498.9	3209.7	2843.9	2595.2	2594.0	2535.4	2639.6	2914.2
40°	3995.5	3997.5	3931.7	3746.0	3442.7	3031.7	2743.8	2740.9	2664.2	2778.1	3047.0
42.5°	4069.4	4082.7	4099.7	3981.8	3686.6	3249.3	2921.0	2917.0	2843.9	2976.8	3203.3
45°	4074.7	4101.3	4206.3	4191.4	3933.7	3498.5	3147.6	3136.3	3083.8	3240.8	3389.8
47.5°	4029.4	4056.9	4231.3	4316.1	4154.6	3761.3	3412.5	3403.6	3358.3	3571.1	3591.7
50°	3930.5	3956.8	4179.7	4377.1	4336.3	4014.1	3717.7	3694.3	3670.1	3952.7	3822.7
52.5°	3745.2	3795.7	4110.6	4391.6	4444.9	4238.6	4038.7	4023.4	4036.7	4355.3	4054.1
55°	3306.3	3362.8	3932.5	4379.5	4525.3	4427.2	4359.7	4358.9	4428.0	4777.7	4302.4
57.5°	3060.3	3100.3	3569.9	4358.9	4620.6	4614.5	4677.5	4685.2	4819.7	5237.6	4562.5
60°	2921.4	2963.4	3386.2	4282.6	4768.4	4856.8	5001.8	5017.1	5217.8	5746.8	4875.4
62.5°	2795.1	2841.1	3272.3	4127.2	4942.4	5203.3	5390.2	5404.0	5639.4	6270.1	5177.8
65°	2579.0	2631.1	3105.6	4025.0	5100.7	5655.1	5884.1	5893.4	6123.5	6818.4	5409.2
67.5°	2273.8	2321.4	2791.0	3799.3	5217.8	6203.9	6540.6	6545.9	6603.6	7205.7	5527.5
70°	1917.2	1935.4	2342.8	3333.3	5079.3	6717.1	7260.2	7261.4	7041.3	7453.6	5508.1
72.5°	1347.1	1389.9	1700.8	2523.3	4365.0	6654.5	7633.7	7647.4	7244.8	7328.4	5068.0
75°	826.2	871.4	1066.8	1529.2	2769.2	5233.6	7053.0	7148.3	6863.3	6534.2	4140.1
77.5°	552.4	569.3	696.1	891.6	1254.6	3011.1	5422.5	5601.8	5701.6	4765.2	2647.7
80°	308.1	340.4	461.5	554.0	558.0	1196.4	3251.3	3293.3	3172.2	1897.4	816.9
82.5°	163.1	180.9	308.1	325.5	304.5	400.6	1211.8	1213.0	1013.5	508.8	242.7
85°	126.4	141.3	211.2	198.7	155.5	177.7	399.8	421.6	344.8	208.4	79.1
87.5°	63.0	78.3	143.3	126.0	61.0	50.9	142.9	152.6	136.1	81.6	28.7
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°	2108.6	2108.6	2108.6	2108.6	2108.6	2108.6	2108.6	2108.6	2108.6	2108.6	2108.6
2.5°	2113.9	2117.5	2121.9	2117.1	2115.5	2109.0	2098.1	2095.7	2090.0	2090.4	2093.7
5°	2132.4	2138.5	2136.1	2117.5	2095.3	2064.2	2031.9	2004.4	1986.3	1985.0	1983.8
7.5°	2168.0	2172.0	2153.0	2100.1	2037.9	1966.1	1898.2	1838.9	1802.9	1794.1	1792.0
10°	2223.7	2222.9	2170.8	2064.2	1940.2	1811.8	1702.8	1620.4	1572.4	1558.2	1554.6
12.5°	2285.9	2276.6	2176.8	1998.8	1802.1	1624.1	1486.0	1394.3	1344.2	1328.1	1324.0
15°	2350.1	2327.1	2161.9	1901.1	1632.5	1421.8	1276.8	1192.0	1164.9	1156.1	1154.4
17.5°	2409.8	2365.4	2119.1	1768.6	1439.1	1220.3	1107.2	1073.3	1079.7	1091.5	1091.9
20°	2468.4	2391.3	2050.5	1601.4	1235.2	1054.3	1015.9	1041.0	1071.7	1095.5	1098.7
22.5°	2526.1	2409.4	1962.0	1408.4	1052.7	961.0	988.1	1033.7	1068.8	1094.7	1099.1
25°	2574.6	2413.9	1840.1	1202.5	925.9	925.9	974.8	1018.0	1052.7	1078.1	1082.6
27.5°	2592.3	2384.0	1668.1	1011.9	862.1	909.7	956.2	992.1	1021.6	1048.6	1053.5
30°	2599.2	2328.7	1469.4	858.9	835.9	892.4	931.1	961.8	989.7	1015.1	1019.6
32.5°	2600.4	2262.0	1258.6	772.1	817.7	874.2	900.1	927.1	957.0	967.1	968.7
35°	2608.1	2183.3	1036.5	727.6	800.7	857.3	877.8	897.2	848.8	852.4	855.6
37.5°	2630.3	2105.4	850.8	702.6	789.8	848.4	873.0	802.7	764.8	755.9	754.7
40°	2671.9	2022.2	713.1	682.4	785.8	852.8	841.9	749.4	684.0	635.2	627.9
42.5°	2729.6	1932.6	625.1	669.1	788.6	874.2	798.7	698.2	589.5	558.0	554.0
45°	2794.6	1838.5	577.4	659.8	798.3	890.8	789.8	629.9	545.5	521.7	519.7
47.5°	2857.6	1723.4	552.8	655.8	811.6	877.4	752.3	608.9	524.5	512.0	513.2
50°	2929.9	1619.6	537.9	651.3	823.3	869.0	709.9	598.0	516.5	531.8	547.9
52.5°	2990.9	1512.2	524.5	642.4	827.8	854.0	699.0	600.0	516.5	545.9	561.3
55°	3063.2	1431.0	509.2	623.9	819.3	811.6	691.3	612.1	522.5	503.9	505.5
57.5°	3156.4	1404.4	492.2	594.8	791.0	749.8	687.7	623.9	518.9	507.2	511.2
60°	3285.7	1432.7	485.4	556.8	747.0	701.4	688.1	617.8	493.4	473.2	473.6
62.5°	3408.8	1464.2	485.0	533.0	692.9	658.2	678.8	598.0	480.5	468.8	473.2
65°	3449.2	1432.3	465.6	506.4	631.9	606.5	661.8	577.0	470.8	453.1	452.2
67.5°	3395.1	1333.3	426.4	463.2	562.1	546.3	639.6	552.0	455.5	440.9	438.5
70°	3234.4	1112.4	377.9	406.2	482.5	478.5	604.5	522.9	434.9	422.4	411.9
72.5°	2801.9	792.6	318.6	338.0	392.9	405.8	556.0	485.0	405.8	378.8	362.6
75°	2301.2	586.7	261.7	265.7	298.4	333.5	489.4	440.5	371.5	325.5	312.9
77.5°	1409.2	359.0	208.4	210.0	214.0	266.1	403.0	390.9	327.9	271.3	262.5
80°	456.3	195.8	150.6	158.3	146.2	195.0	311.7	332.7	281.4	226.9	217.2
82.5°	173.6	114.3	101.8	107.0	101.4	130.8	227.3	266.5	230.6	186.6	151.8
85°	84.0	64.6	60.2	67.4	62.6	67.0	145.4	196.2	174.8	121.5	113.1
87.5°	29.9	28.7	23.0	31.1	26.7	23.8	44.4	98.9	115.5	83.6	74.7
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)