

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: P317886

Luminaire Tested: **GAN-SA2C-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317886
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-SA2C-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10878 lumens
Efficiency: N/A
Efficacy: 96.3 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): 113
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

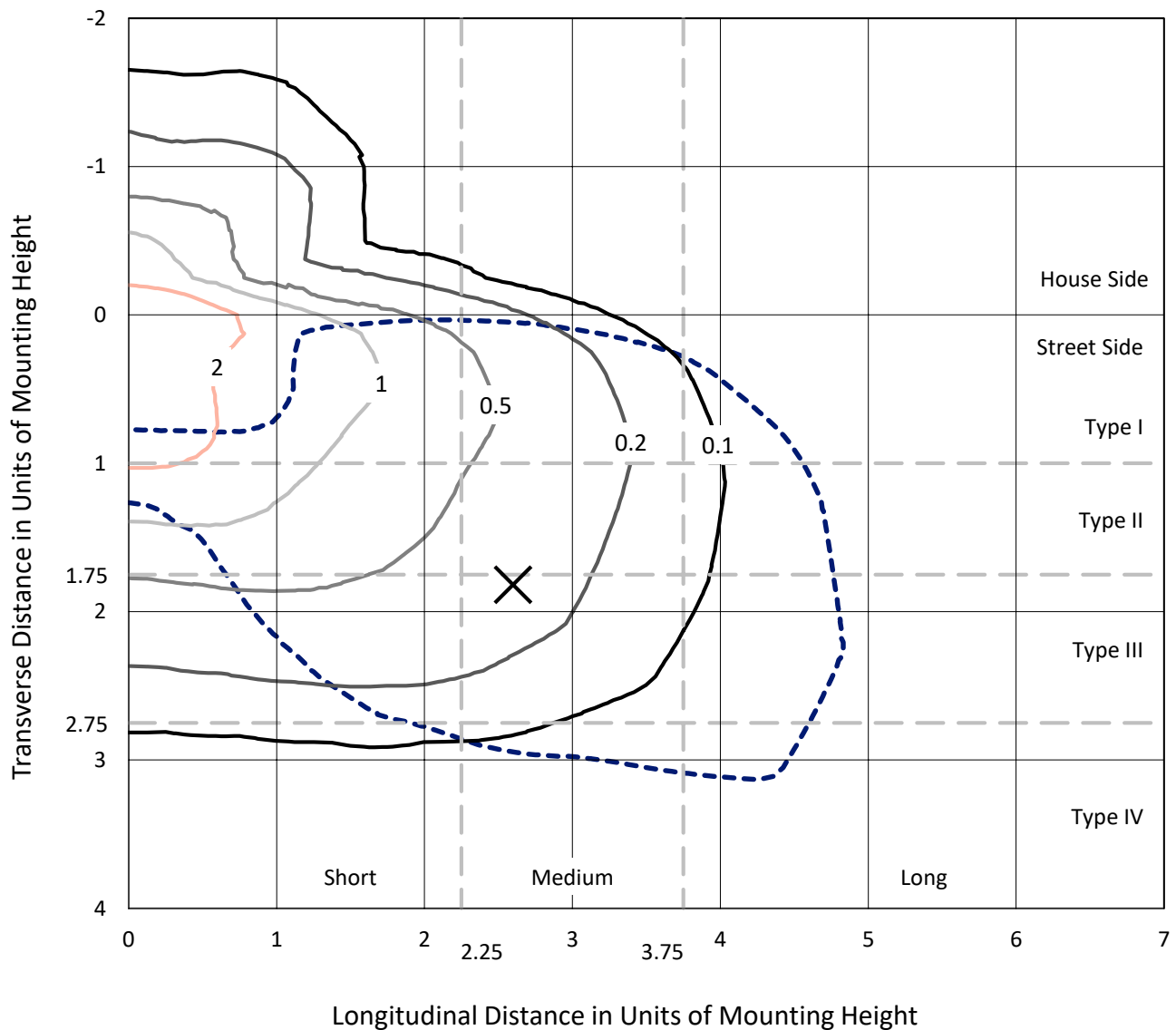


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Iso-Footcandle Lines of Horizontal Illumination

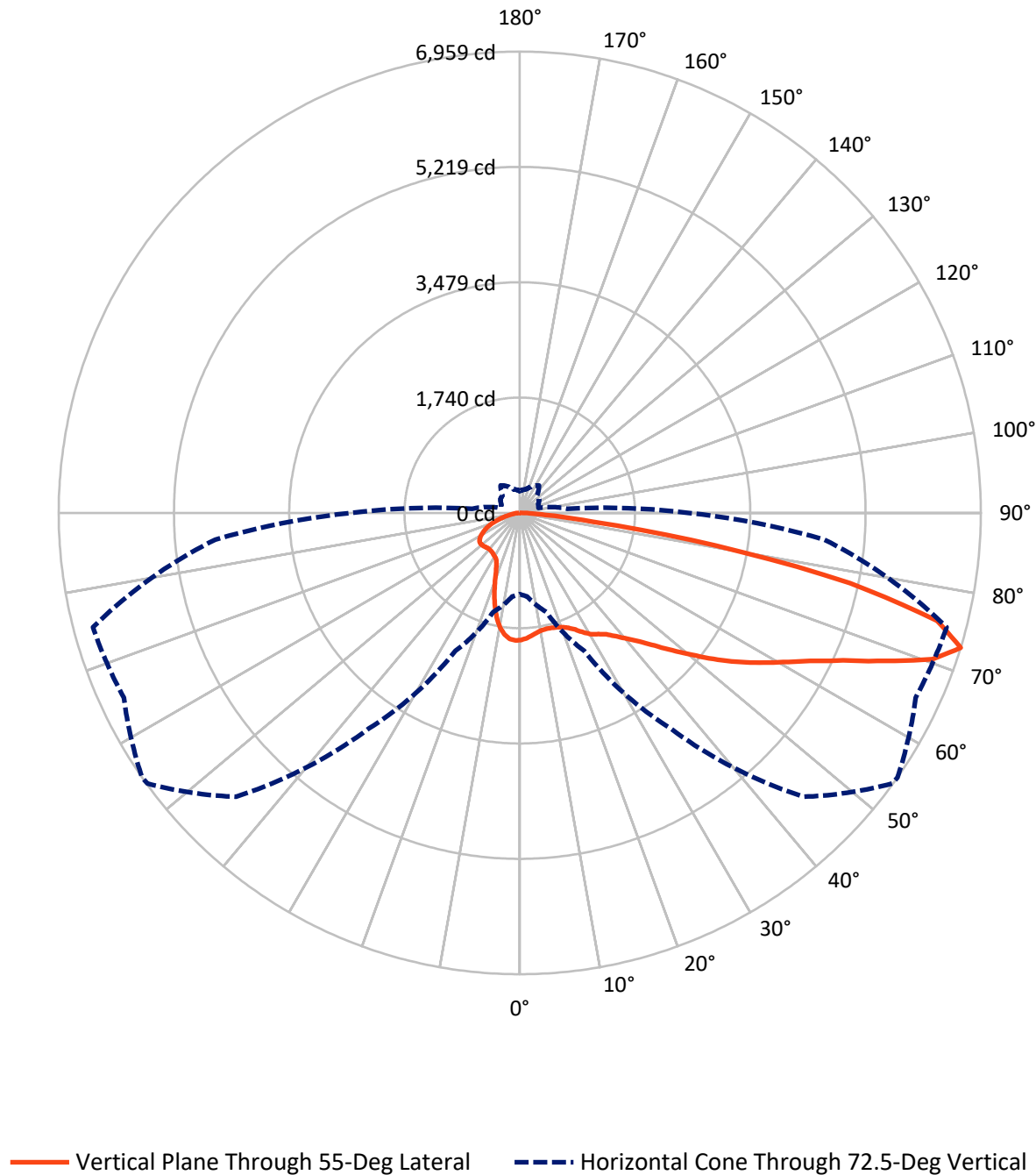
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2021.9	0.0	2021.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	8856.1	0.0	8856.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	10878.0	0.0	10878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.6	1.6
10°-20°	462.2	4.2
20°-30°	762.1	7.0
30°-40°	1127.3	10.4
40°-50°	1573.5	14.5
50°-60°	2048.8	18.8
60°-70°	2517.9	23.1
70°-80°	1973.7	18.1
80°-90°	238.8	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°	10878.0	100.0
0°-180°	10878.0	100.0

Coefficient of Utilization



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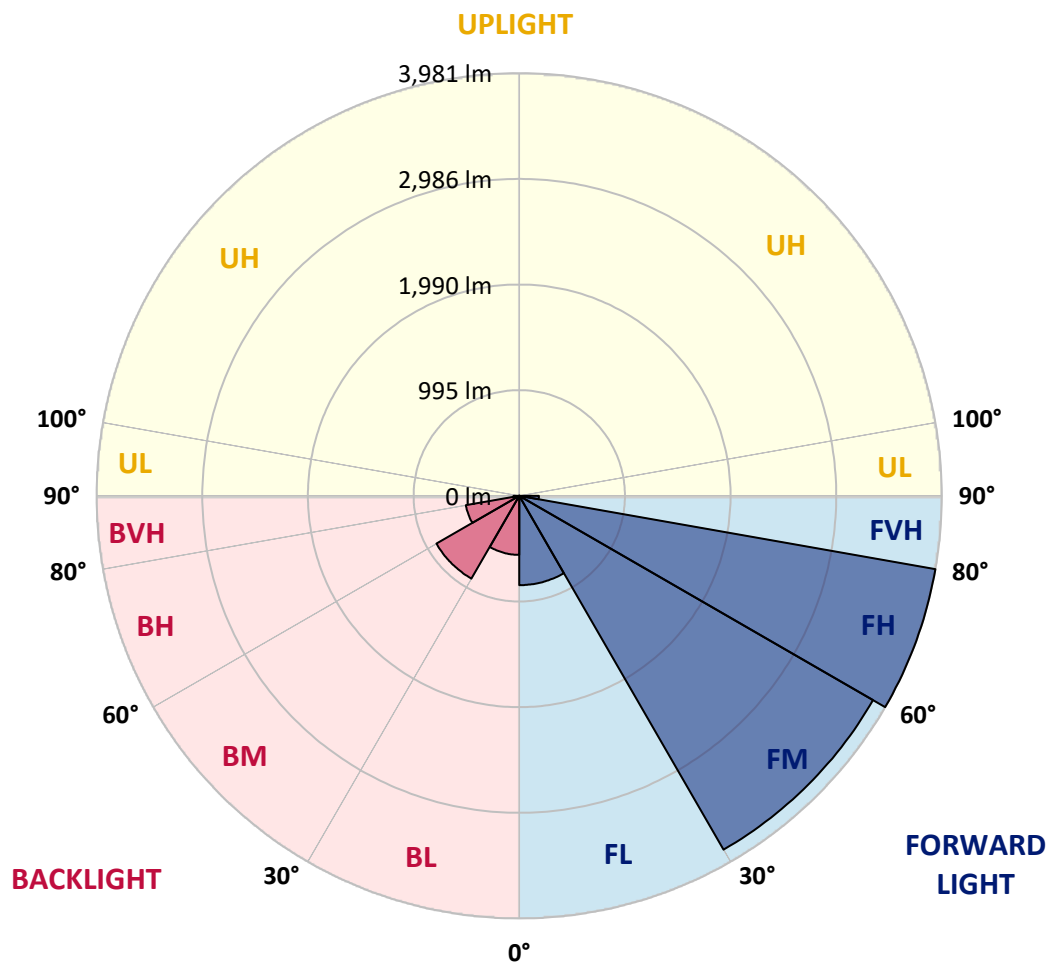
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	841.6	7.7			
FM	(30°-60°)	3848.8	35.4			
FH	(60°-80°)	3981.0	36.6			G2/5000
FVH	(80°-90°)	184.7	1.7			G2/225
BL	(0°-30°)	556.3	5.1	B2/1000		
BM	(30°-60°)	900.8	8.3	B1/1000		
BH	(60°-80°)	510.6	4.7	B2/1000		G2/1000
BVH	(80°-90°)	54.2	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°	1918.6	1918.6	1918.6	1918.6	1918.6	1918.6	1918.6	1918.6	1918.6	1918.6	1918.6
2.5°	1856.2	1851.8	1857.3	1865.0	1873.5	1884.8	1891.5	1894.4	1905.8	1910.2	1919.7
5°	1770.2	1768.0	1777.2	1790.4	1809.2	1835.6	1856.9	1861.0	1891.1	1912.4	1931.9
7.5°	1707.7	1707.7	1718.4	1734.2	1755.1	1790.8	1820.9	1826.4	1877.5	1923.4	1959.4
10°	1658.1	1660.0	1672.5	1691.2	1715.8	1753.7	1793.7	1800.0	1873.8	1949.1	2006.5
12.5°	1625.1	1629.5	1640.9	1657.8	1688.3	1734.2	1784.9	1793.4	1881.5	1985.9	2063.0
15°	1646.0	1653.4	1654.5	1661.5	1678.4	1728.3	1790.0	1798.9	1898.1	2023.4	2127.3
17.5°	1737.9	1740.4	1729.1	1714.4	1706.3	1738.2	1805.5	1814.7	1917.9	2060.5	2189.1
20°	1877.5	1876.0	1851.4	1811.7	1770.6	1775.7	1830.8	1840.4	1944.7	2093.2	2250.8
22.5°	2053.9	2048.7	2010.9	1937.8	1867.6	1838.2	1875.3	1883.4	1985.1	2139.8	2316.9
25°	2267.7	2256.3	2206.3	2108.2	2005.0	1929.3	1942.2	1949.9	2043.9	2192.0	2377.5
27.5°	2493.3	2481.9	2418.3	2299.7	2162.2	2044.3	2034.4	2041.0	2110.8	2230.6	2422.4
30°	2729.2	2717.0	2659.0	2526.0	2329.0	2163.3	2120.4	2122.9	2157.8	2251.5	2459.1
32.5°	2966.1	2954.8	2889.7	2735.4	2510.2	2291.2	2182.4	2179.1	2186.1	2273.2	2500.6
35°	3206.4	3210.8	3134.8	2963.9	2710.8	2433.4	2255.9	2249.0	2233.5	2317.7	2559.4
37.5°	3463.6	3460.7	3362.2	3183.7	2920.6	2587.7	2361.4	2360.3	2307.0	2401.8	2651.6
40°	3635.6	3637.4	3577.5	3408.5	3132.6	2758.6	2496.6	2494.0	2424.2	2527.8	2772.5
42.5°	3702.8	3714.9	3730.4	3623.1	3354.5	2956.6	2657.9	2654.2	2587.7	2708.6	2914.7
45°	3707.6	3731.8	3827.4	3813.8	3579.4	3183.3	2864.0	2853.7	2806.0	2948.9	3084.5
47.5°	3666.4	3691.4	3850.1	3927.3	3780.3	3422.5	3105.0	3096.9	3055.8	3249.4	3268.2
50°	3576.4	3600.3	3803.1	3982.8	3945.7	3652.5	3382.8	3361.5	3339.4	3596.6	3478.3
52.5°	3407.8	3453.7	3740.3	3996.0	4044.5	3856.8	3674.9	3660.9	3673.1	3962.9	3688.9
55°	3008.4	3059.8	3578.3	3985.0	4117.6	4028.3	3967.0	3966.3	4029.1	4347.3	3914.8
57.5°	2784.6	2821.0	3248.3	3966.3	4204.3	4198.8	4256.1	4263.1	4385.5	4765.7	4151.4
60°	2658.3	2696.5	3081.1	3896.8	4338.8	4419.3	4551.2	4565.1	4747.7	5229.1	4436.2
62.5°	2543.3	2585.1	2977.5	3755.4	4497.2	4734.5	4904.6	4917.1	5131.3	5705.2	4711.4
65°	2346.7	2394.1	2825.8	3662.4	4641.2	5145.7	5354.0	5362.4	5571.9	6204.2	4921.9
67.5°	2068.9	2112.3	2539.6	3457.0	4747.7	5645.0	5951.4	5956.2	6008.7	6556.5	5029.6
70°	1744.5	1761.0	2131.7	3033.0	4621.7	6112.0	6606.1	6607.2	6407.0	6782.1	5011.9
72.5°	1225.7	1264.6	1547.6	2296.0	3971.8	6055.0	6946.0	6958.5	6592.2	6668.2	4611.4
75°	751.7	792.9	970.7	1391.4	2519.7	4762.1	6417.7	6504.4	6245.0	5945.5	3767.1
77.5°	502.6	518.1	633.4	811.3	1141.6	2739.8	4934.0	5097.2	5187.9	4335.9	2409.1
80°	280.3	309.7	420.0	504.1	507.8	1088.7	2958.4	2996.6	2886.4	1726.5	743.3
82.5°	148.4	164.6	280.3	296.1	277.0	364.5	1102.6	1103.7	922.2	462.9	220.8
85°	115.0	128.6	192.2	180.8	141.5	161.7	363.7	383.6	313.8	189.6	72.0
87.5°	57.3	71.3	130.4	114.6	55.5	46.3	130.1	138.9	123.8	74.2	26.1
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°	1918.6	1918.6	1918.6	1918.6	1918.6	1918.6	1918.6	1918.6	1918.6	1918.6	1918.6
2.5°	1923.4	1926.7	1930.8	1926.4	1924.9	1919.0	1909.1	1906.9	1901.7	1902.1	1905.1
5°	1940.3	1945.8	1943.6	1926.7	1906.5	1878.2	1848.8	1823.9	1807.3	1806.2	1805.1
7.5°	1972.7	1976.3	1959.1	1910.9	1854.3	1788.9	1727.2	1673.2	1640.5	1632.4	1630.6
10°	2023.4	2022.6	1975.2	1878.2	1765.4	1648.6	1549.4	1474.4	1430.7	1417.9	1414.6
12.5°	2079.9	2071.5	1980.7	1818.7	1639.8	1477.7	1352.1	1268.7	1223.1	1208.4	1204.8
15°	2138.4	2117.4	1967.1	1729.8	1485.5	1293.7	1161.8	1084.6	1060.0	1051.9	1050.4
17.5°	2192.7	2152.3	1928.2	1609.3	1309.5	1110.3	1007.5	976.6	982.5	993.1	993.5
20°	2246.0	2175.8	1865.7	1457.2	1123.9	959.3	924.4	947.2	975.1	996.8	999.7
22.5°	2298.6	2192.4	1785.3	1281.5	957.9	874.4	899.1	940.6	972.5	996.1	1000.1
25°	2342.6	2196.4	1674.3	1094.2	842.5	842.5	886.9	926.3	957.9	981.0	985.0
27.5°	2358.8	2169.2	1517.8	920.7	784.4	827.8	870.0	902.7	929.6	954.2	958.6
30°	2365.1	2118.9	1337.0	781.5	760.6	812.0	847.3	875.2	900.5	923.7	927.7
32.5°	2366.2	2058.3	1145.2	702.5	744.0	795.5	819.0	843.6	870.8	880.0	881.4
35°	2373.1	1986.6	943.2	662.1	728.6	780.0	798.8	816.4	772.3	775.6	778.6
37.5°	2393.3	1915.7	774.1	639.3	718.7	771.9	794.4	730.4	695.9	687.8	686.7
40°	2431.2	1840.0	648.9	620.9	715.0	776.0	766.1	681.9	622.4	577.9	571.3
42.5°	2483.7	1758.5	568.8	608.8	717.6	795.5	726.7	635.3	536.4	507.8	504.1
45°	2542.9	1672.8	525.4	600.4	726.4	810.5	718.7	573.2	496.4	474.7	472.9
47.5°	2600.2	1568.1	503.0	596.7	738.5	798.4	684.5	554.1	477.3	465.9	467.0
50°	2666.0	1473.7	489.4	592.6	749.2	790.7	645.9	544.1	469.9	483.9	498.6
52.5°	2721.4	1376.0	477.3	584.6	753.2	777.1	636.0	546.0	469.9	496.7	510.7
55°	2787.2	1302.1	463.3	567.7	745.5	738.5	629.0	557.0	475.4	458.5	460.0
57.5°	2872.1	1277.9	447.9	541.2	719.8	682.3	625.7	567.7	472.1	461.5	465.1
60°	2989.7	1303.6	441.6	506.7	679.7	638.2	626.1	562.1	449.0	430.6	431.0
62.5°	3101.7	1332.2	441.3	485.0	630.5	598.9	617.6	544.1	437.2	426.6	430.6
65°	3138.5	1303.2	423.6	460.7	575.0	551.9	602.2	525.0	428.4	412.2	411.5
67.5°	3089.2	1213.2	388.0	421.4	511.4	497.1	582.0	502.3	414.4	401.2	399.0
70°	2943.0	1012.2	343.9	369.6	439.1	435.4	550.0	475.8	395.7	384.3	374.8
72.5°	2549.5	721.2	289.9	307.5	357.5	369.3	505.9	441.3	369.3	344.6	329.9
75°	2093.9	533.9	238.1	241.8	271.5	303.5	445.3	400.9	338.0	296.1	284.7
77.5°	1282.3	326.6	189.6	191.1	194.7	242.1	366.7	355.7	298.3	246.9	238.8
80°	415.2	178.2	137.0	144.0	133.0	177.5	283.6	302.8	256.1	206.5	197.7
82.5°	158.0	104.0	92.6	97.4	92.2	119.0	206.9	242.5	209.8	169.7	138.1
85°	76.4	58.8	54.7	61.4	56.9	61.0	132.3	178.6	159.1	110.6	102.9
87.5°	27.2	26.1	20.9	28.3	24.2	21.7	40.4	90.0	105.1	76.1	68.0
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)