

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: P268423

Luminaire Tested: **GAN-AF-04-LED-U-RW-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-RW-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17228.9 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B4 - U0 - G2

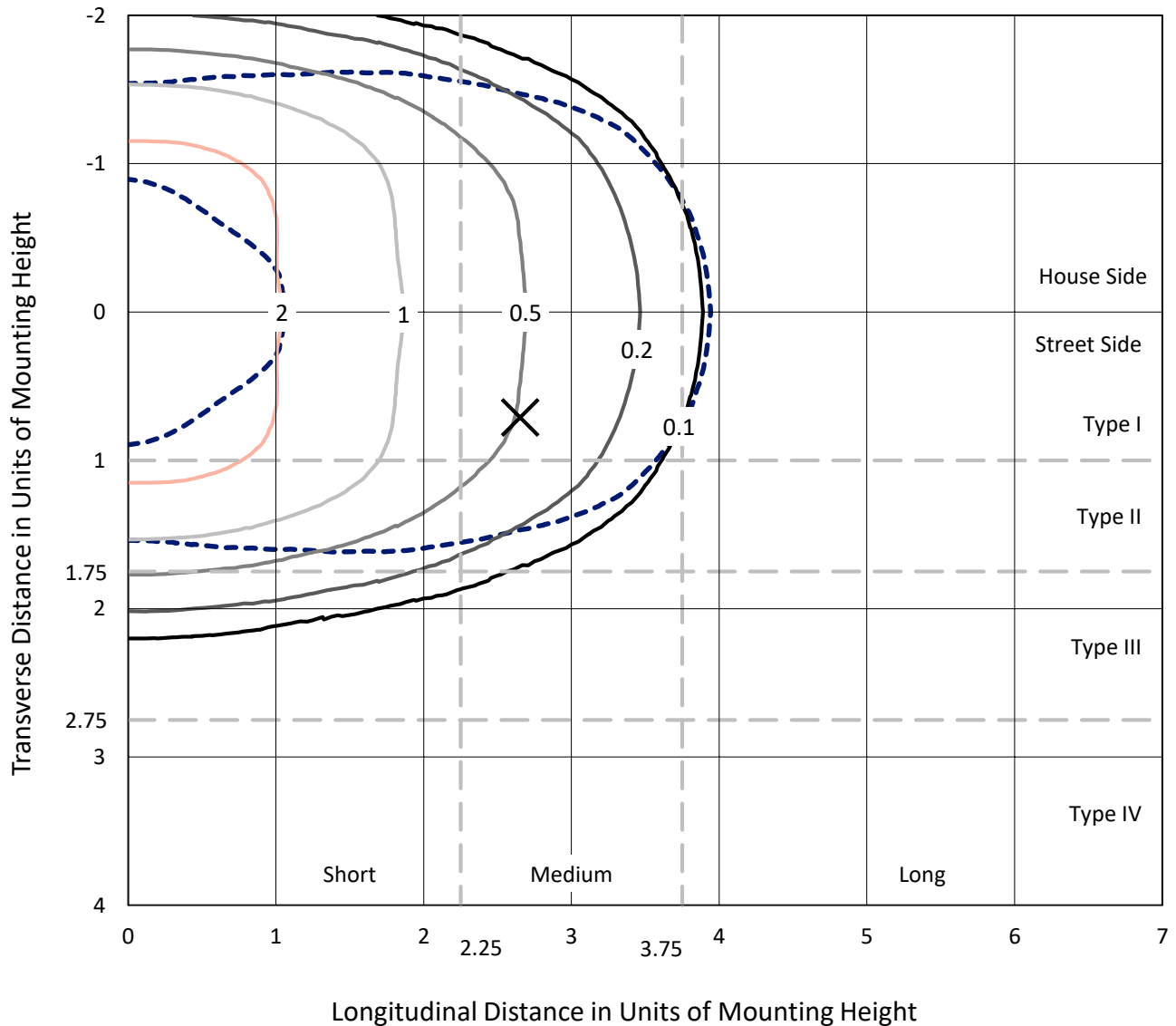
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P268423
 CATALOG NUMBER: GAN-AF-04-LED-U-RW-7027-800

Iso-Footcandle Lines of Horizontal Illumination

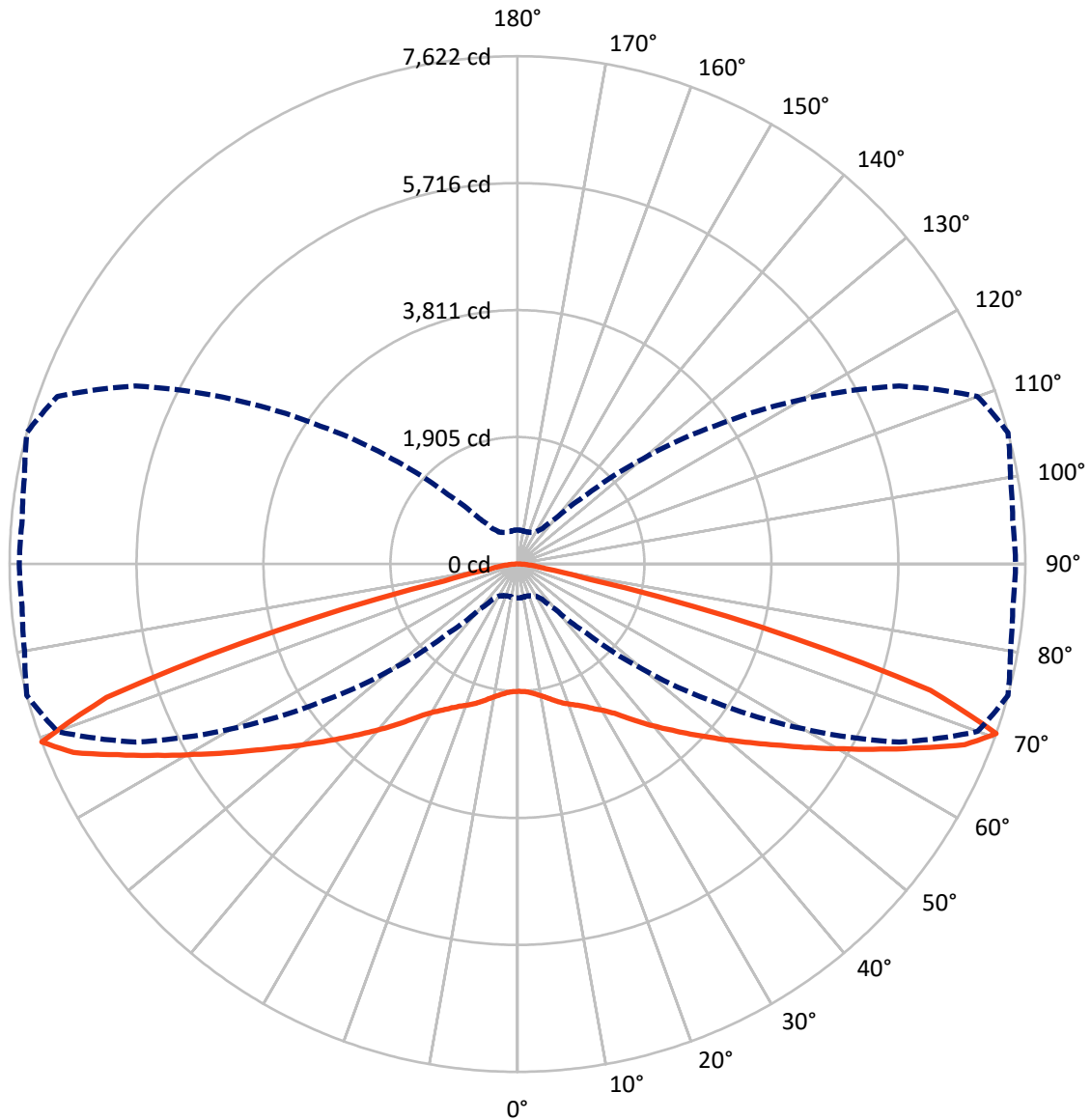
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Medium - Full Cutoff

REPORT NUMBER: P268423
CATALOG NUMBER: GAN-AF-04-LED-U-RW-7027-800

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P268423

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8614.5	0.0	8614.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8614.5	0.0	8614.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17228.9	0.0	17228.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.3	1.1
10°-20°	569.5	3.3
20°-30°	1071.9	6.2
30°-40°	1898.1	11.0
40°-50°	3174.3	18.4
50°-60°	4423.3	25.7
60°-70°	4101.9	23.8
70°-80°	1634.7	9.5
80°-90°	171.8	1.0
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°	17228.9	100.0
0°-180°	17228.9	100.0

Coefficient of Utilization



REPORT NUMBER: P268423

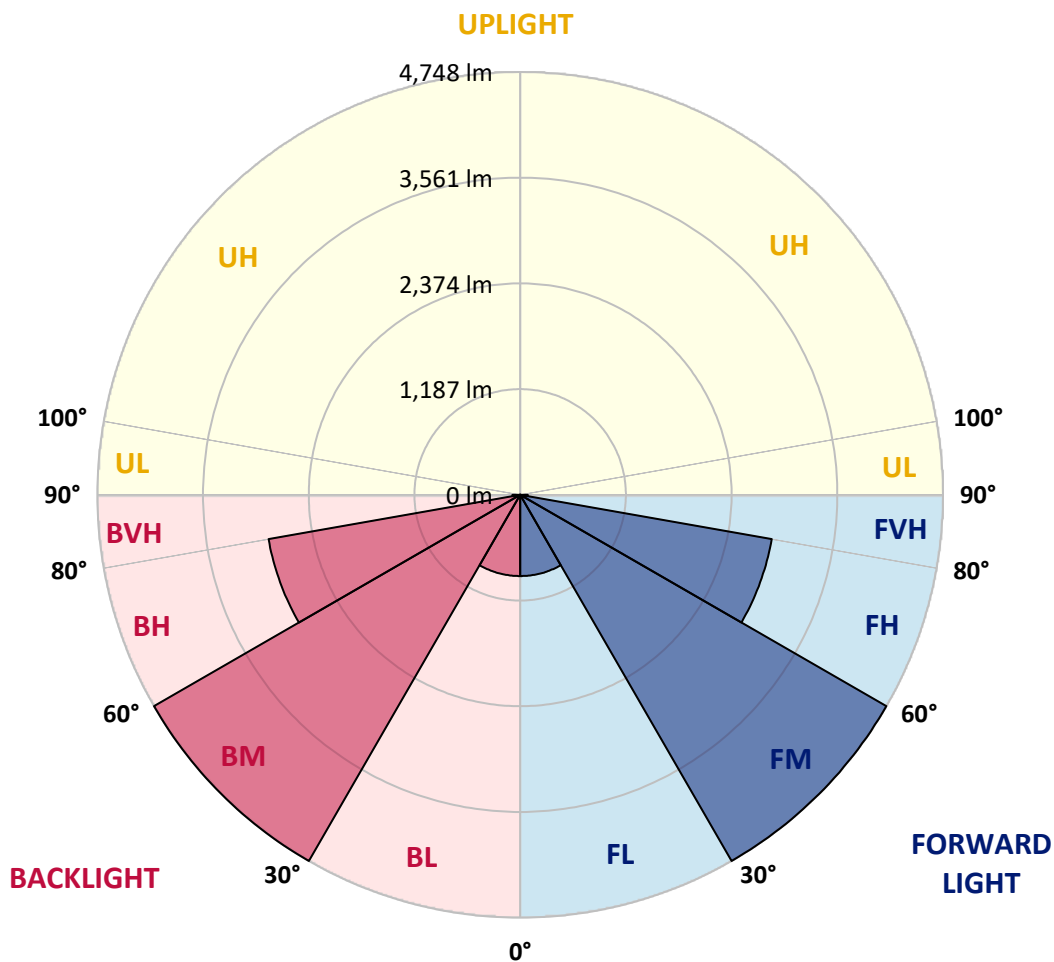
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	912.3	5.3			
FM	(30°-60°)	4747.9	27.6			
FH	(60°-80°)	2868.3	16.6			G2/5000
FVH	(80°-90°)	85.9	0.5			G1/100
BL	(0°-30°)	912.3	5.3	B2/1000		
BM	(30°-60°)	4747.9	27.6	B3/5000		
BH	(60°-80°)	2868.3	16.6	B4/5000		G2/5000
BVH	(80°-90°)	85.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Medium





REPORT NUMBER: P268423

CATALOG NUMBER: GAN-AF-04-LED-U-RW-7027-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1911.1	1911.1	1911.1	1911.1	1911.1	1911.1	1911.1	1911.1	1911.1	1911.1	1911.1
2.5°	1907.8	1906.3	1907.8	1907.0	1908.7	1908.7	1910.2	1913.5	1913.5	1915.9	1915.1
5°	1889.0	1888.2	1890.8	1893.2	1895.7	1900.5	1905.3	1912.8	1918.4	1922.6	1926.5
7.5°	1852.5	1852.5	1855.7	1861.4	1867.0	1877.6	1889.0	1903.8	1918.4	1930.6	1941.1
10°	1822.3	1824.0	1828.1	1837.8	1847.5	1863.9	1879.3	1900.5	1920.8	1941.1	1957.4
12.5°	1804.4	1806.9	1814.1	1828.9	1845.1	1867.0	1890.8	1917.6	1940.3	1964.9	1981.1
15°	1810.2	1811.7	1822.3	1840.3	1861.4	1889.0	1920.8	1952.6	1979.4	2005.6	2027.6
17.5°	1841.9	1844.3	1856.5	1876.9	1898.8	1931.4	1965.6	2001.5	2034.9	2064.1	2091.1
20°	1898.8	1901.4	1916.9	1938.8	1964.9	1998.2	2032.4	2069.9	2107.3	2138.2	2168.4
22.5°	1979.4	1983.5	1998.2	2020.2	2049.6	2085.3	2126.1	2166.0	2201.7	2230.3	2257.1
25°	2085.3	2094.3	2108.1	2132.5	2163.5	2196.0	2240.1	2280.7	2314.9	2341.8	2361.4
27.5°	2235.2	2247.4	2258.0	2281.5	2311.7	2342.7	2386.6	2422.5	2455.0	2481.1	2495.8
30°	2433.9	2446.1	2456.7	2479.4	2507.1	2536.5	2578.0	2609.8	2630.1	2650.4	2649.6
32.5°	2674.9	2687.9	2692.0	2716.5	2745.0	2776.7	2814.1	2832.0	2848.3	2850.7	2836.0
35°	2944.5	2950.9	2967.2	2999.8	3032.4	3058.4	3094.2	3103.1	3103.1	3091.0	3058.4
37.5°	3239.9	3244.0	3266.9	3303.4	3336.8	3363.8	3388.1	3406.2	3397.1	3371.1	3316.5
40°	3564.0	3571.4	3604.0	3636.5	3674.0	3699.2	3725.4	3728.5	3719.6	3681.3	3607.2
42.5°	3873.5	3880.0	3912.6	3964.0	4012.6	4047.8	4072.1	4077.0	4048.5	4013.5	3921.6
45°	4139.7	4156.8	4199.1	4259.5	4330.3	4380.0	4413.4	4427.1	4402.0	4356.3	4249.7
47.5°	4350.6	4367.6	4427.9	4499.6	4587.6	4668.2	4723.6	4752.9	4746.4	4712.1	4595.6
50°	4505.4	4521.6	4586.7	4674.7	4777.4	4877.4	4971.8	5041.9	5066.4	5050.9	4944.2
52.5°	4523.2	4550.2	4626.7	4744.8	4878.2	5015.1	5149.4	5268.3	5349.0	5361.2	5282.2
55°	4273.2	4300.1	4405.9	4581.0	4779.7	5002.9	5217.9	5418.1	5576.9	5658.3	5616.8
57.5°	3683.8	3731.7	3843.4	4048.5	4340.9	4674.7	5017.6	5373.3	5696.6	5912.5	5954.0
60°	2823.1	2880.1	2992.4	3210.6	3536.4	3934.5	4392.2	4918.2	5489.1	5974.3	6264.2
62.5°	1811.0	1864.7	1982.7	2172.6	2437.9	2869.5	3360.5	3985.1	4752.0	5518.3	6208.7
65°	930.7	960.0	1021.9	1136.7	1343.5	1665.9	2106.5	2729.4	3606.3	4551.7	5550.1
67.5°	589.6	595.2	609.1	625.4	678.3	789.8	995.1	1383.4	2104.9	3091.0	4259.5
70°	509.7	509.7	503.2	500.7	507.4	522.8	554.6	645.0	888.3	1467.3	2456.7
72.5°	466.6	461.6	450.3	441.3	439.7	439.7	446.2	460.0	499.2	597.7	961.6
75°	429.8	416.1	400.6	390.0	385.9	381.9	381.2	383.5	391.8	407.1	459.3
77.5°	385.2	367.2	349.4	338.8	333.8	328.2	323.3	317.6	313.5	318.4	341.1
80°	331.5	311.1	297.2	290.7	285.8	277.7	267.1	257.4	248.3	246.8	260.6
82.5°	267.1	243.5	244.2	246.8	237.8	226.4	215.0	204.4	189.0	180.7	189.0
85°	215.9	203.6	197.8	213.3	200.3	183.3	165.3	146.6	122.1	102.5	111.6
87.5°	83.9	83.9	125.5	193.0	173.5	141.8	121.4	103.5	64.3	49.6	50.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P268423

CATALOG NUMBER: GAN-AF-04-LED-U-RW-7027-800

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1911.1	1911.1	1911.1	1911.1	1911.1	1911.1	1911.1	1911.1
2.5°	1914.4	1915.9	1915.1	1914.4	1914.4	1913.5	1914.4	1914.4
5°	1929.0	1933.1	1933.1	1934.7	1934.7	1935.5	1936.3	1935.5
7.5°	1950.9	1958.3	1963.2	1968.9	1969.8	1970.5	1972.1	1970.5
10°	1972.9	1987.6	1998.2	2008.8	2013.7	2015.3	2017.0	2017.0
12.5°	2000.6	2020.9	2039.7	2058.5	2067.4	2072.3	2072.3	2075.5
15°	2046.2	2066.6	2088.6	2113.8	2129.3	2137.4	2139.9	2139.9
17.5°	2110.6	2128.5	2147.2	2171.7	2191.1	2201.7	2204.3	2203.5
20°	2185.4	2202.6	2213.2	2228.7	2245.8	2258.0	2261.3	2261.3
22.5°	2270.9	2280.7	2282.5	2287.3	2301.1	2317.4	2324.8	2326.4
25°	2365.4	2367.9	2361.4	2361.4	2370.4	2385.8	2393.2	2394.0
27.5°	2487.5	2475.4	2459.1	2453.5	2459.1	2476.9	2486.0	2489.3
30°	2639.8	2610.6	2573.0	2552.8	2549.5	2573.0	2589.4	2591.8
32.5°	2814.1	2771.8	2722.1	2680.6	2670.0	2684.7	2704.2	2703.4
35°	3020.9	2970.4	2910.1	2857.2	2832.8	2847.4	2875.1	2878.4
37.5°	3259.5	3193.6	3124.3	3057.7	3019.4	3023.3	3052.7	3062.4
40°	3525.8	3440.2	3353.2	3263.6	3209.0	3198.4	3234.3	3239.9
42.5°	3810.8	3700.8	3591.0	3480.2	3410.1	3393.8	3435.4	3433.0
45°	4114.4	3974.5	3845.9	3723.7	3640.7	3616.1	3650.4	3650.4
47.5°	4441.0	4268.3	4115.3	3976.8	3886.4	3851.6	3884.0	3886.4
50°	4787.1	4603.9	4424.0	4270.1	4161.8	4116.9	4159.3	4165.8
52.5°	5131.5	4953.3	4771.5	4595.6	4464.7	4410.0	4458.9	4480.0
55°	5480.9	5305.7	5132.3	4960.5	4805.0	4740.6	4792.7	4819.6
57.5°	5849.8	5687.7	5522.4	5349.0	5199.1	5099.0	5154.4	5190.1
60°	6282.0	6143.7	5971.8	5780.6	5629.0	5527.2	5559.0	5590.8
62.5°	6624.1	6677.8	6532.0	6310.7	6116.0	5985.6	6016.7	6050.1
65°	6458.8	7010.1	7139.5	6915.6	6646.1	6443.4	6430.2	6447.3
67.5°	5398.6	6469.4	7250.2	7463.6	7238.1	6956.4	6904.3	6929.4
70°	3611.2	4945.1	6322.8	7348.8	7621.6	7512.4	7461.1	7476.7
72.5°	1734.4	2880.1	4289.5	5653.5	6484.1	6865.0	6987.2	7046.7
75°	634.4	1143.3	2067.4	3115.4	3761.2	4353.8	4740.6	4898.6
77.5°	382.7	461.6	660.3	994.2	1126.1	1260.5	1208.4	1234.5
80°	283.3	319.9	362.3	407.1	421.8	421.8	405.6	392.5
82.5°	198.6	222.3	242.6	267.1	273.7	261.3	215.0	170.9
85°	127.9	138.3	147.4	162.9	158.8	151.5	101.8	90.4
87.5°	58.6	66.7	70.0	77.3	74.1	70.8	50.5	42.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)