

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: P317667

Luminaire Tested: **GAN-SA3A-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317667
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-SA3A-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12165 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

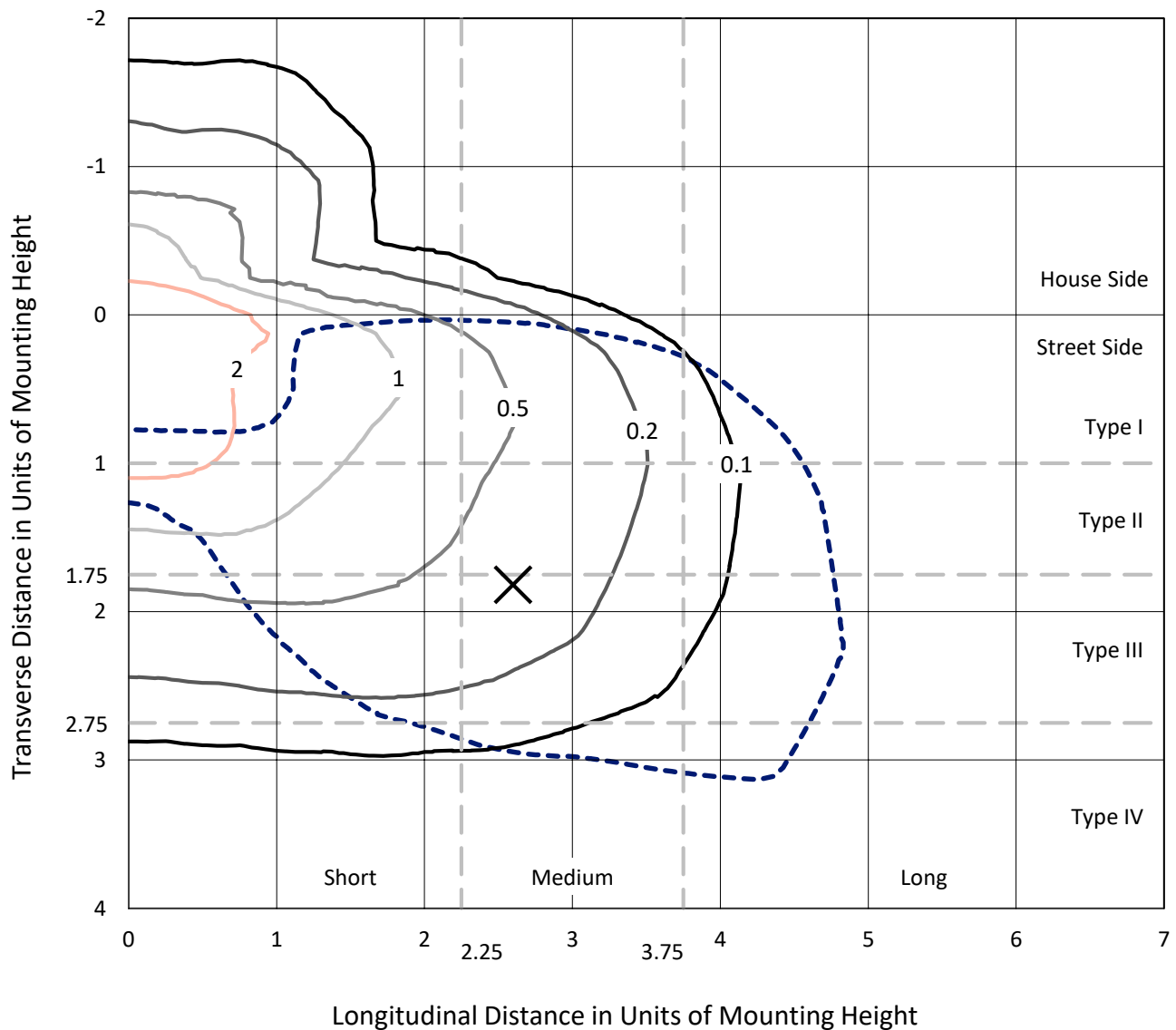
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

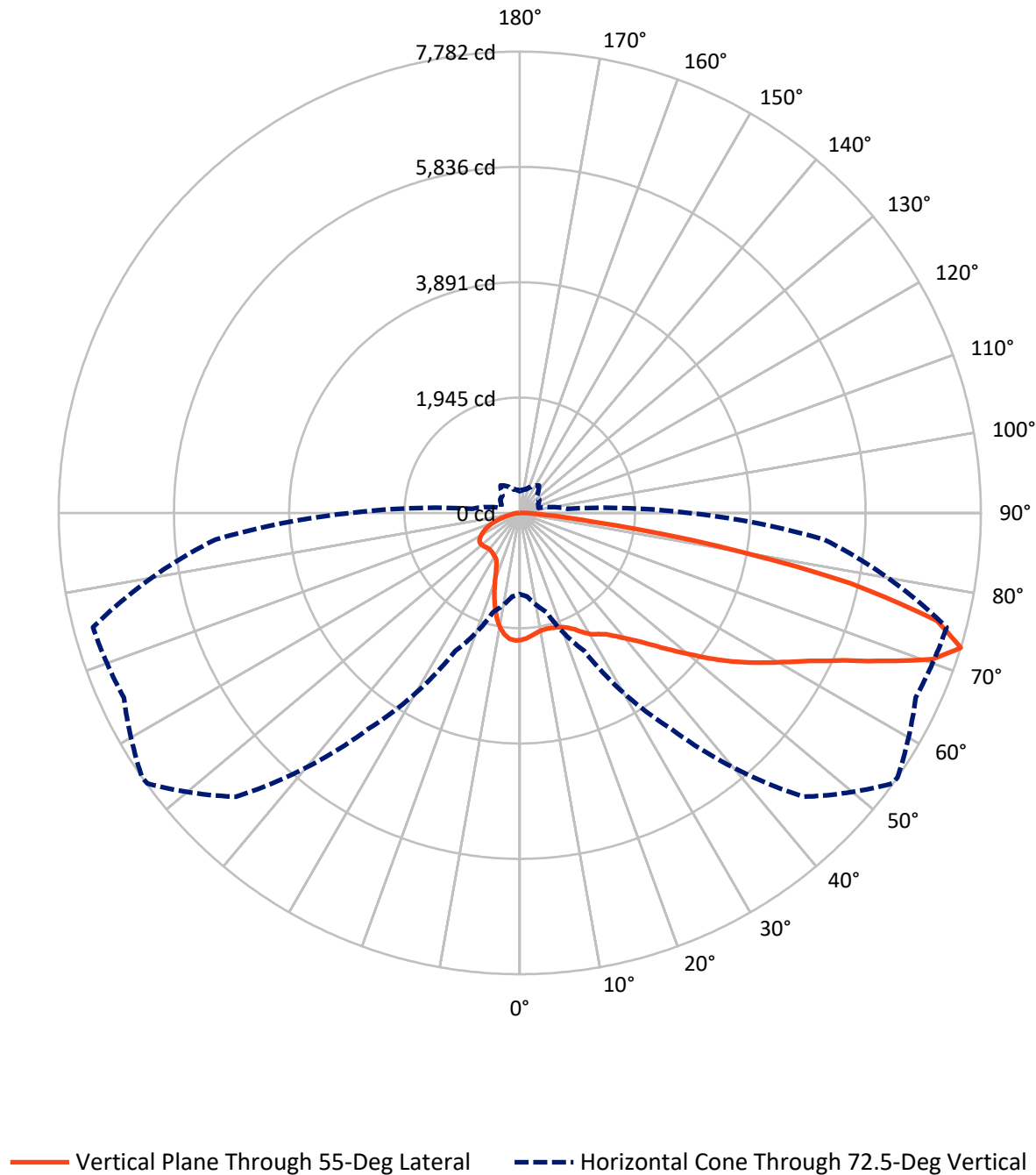
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	2261.1	0.0	2261.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9903.9	0.0	9903.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	12165.0	0.0	12165.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.2	1.6
10°-20°	516.9	4.2
20°-30°	852.3	7.0
30°-40°	1260.7	10.4
40°-50°	1759.7	14.5
50°-60°	2291.2	18.8
60°-70°	2815.8	23.1
70°-80°	2207.2	18.1
80°-90°	267.1	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°	12165.0	100.0
0°-180°	12165.0	100.0

Coefficient of Utilization



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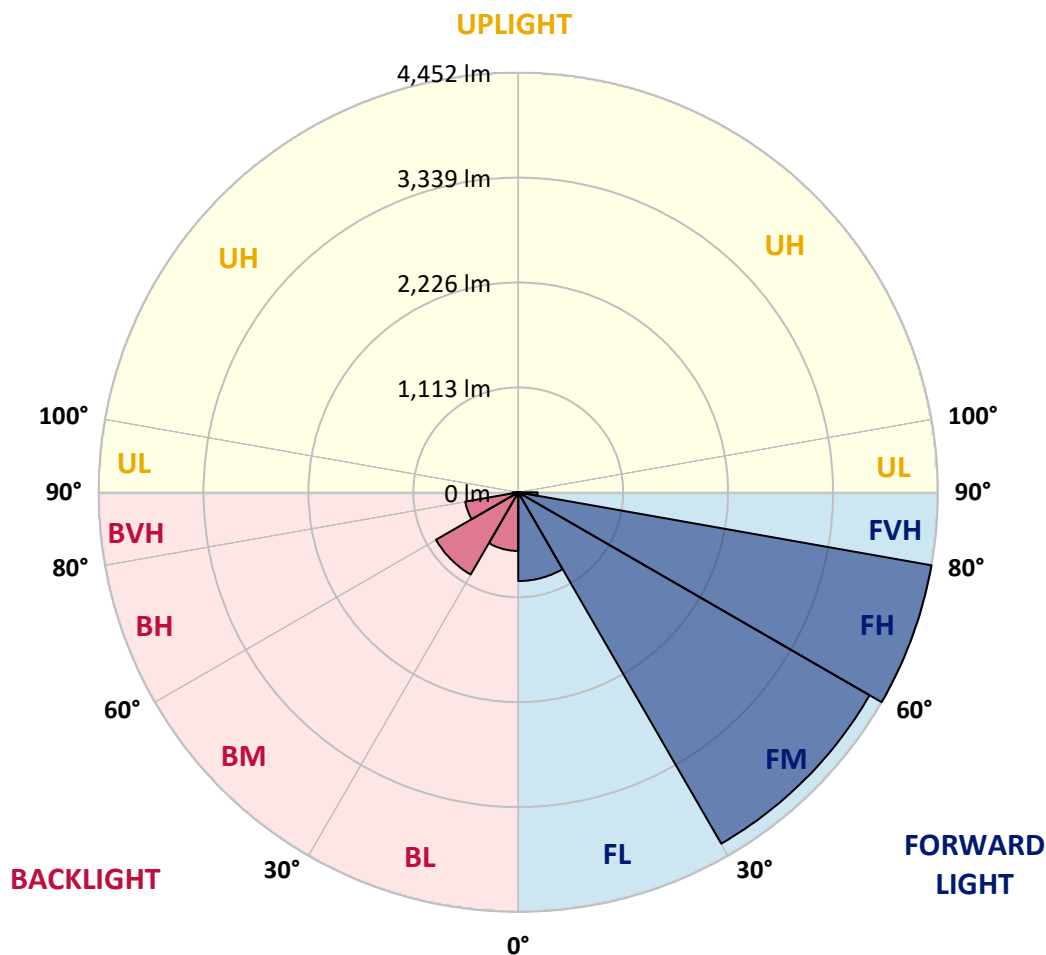
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	941.2	7.7			
FM	(30°-60°)	4304.2	35.4			
FH	(60°-80°)	4452.0	36.6			G2/5000
FVH	(80°-90°)	206.5	1.7			G2/225
BL	(0°-30°)	622.1	5.1	B2/1000		
BM	(30°-60°)	1007.3	8.3	B2/2500		
BH	(60°-80°)	571.0	4.7	B2/1000		G2/1000
BVH	(80°-90°)	60.6	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°	2145.6	2145.6	2145.6	2145.6	2145.6	2145.6	2145.6	2145.6	2145.6	2145.6	2145.6
2.5°	2075.8	2070.9	2077.0	2085.7	2095.1	2107.8	2115.2	2118.5	2131.3	2136.2	2146.9
5°	1979.6	1977.2	1987.5	2002.2	2023.2	2052.8	2076.6	2081.1	2114.8	2138.7	2160.4
7.5°	1909.8	1909.8	1921.7	1939.4	1962.8	2002.7	2036.3	2042.5	2099.6	2151.0	2191.3
10°	1854.3	1856.4	1870.4	1891.3	1918.8	1961.2	2005.9	2012.9	2095.5	2179.7	2243.8
12.5°	1817.3	1822.3	1835.0	1853.9	1888.0	1939.4	1996.1	2005.5	2104.1	2220.8	2307.1
15°	1840.8	1849.0	1850.2	1858.0	1876.9	1932.8	2001.8	2011.7	2122.6	2262.7	2379.0
17.5°	1943.5	1946.4	1933.6	1917.2	1908.2	1943.9	2019.1	2029.4	2144.8	2304.2	2448.1
20°	2099.6	2098.0	2070.5	2026.1	1980.1	1985.8	2047.4	2058.1	2174.8	2340.8	2517.1
22.5°	2296.9	2291.1	2248.8	2167.0	2088.5	2055.7	2097.2	2106.2	2220.0	2393.0	2591.0
25°	2536.0	2523.2	2467.4	2357.7	2242.2	2157.6	2171.9	2180.6	2285.8	2451.3	2658.8
27.5°	2788.3	2775.5	2704.4	2571.7	2418.1	2286.2	2275.1	2282.5	2360.5	2494.5	2709.0
30°	3052.1	3038.5	2973.6	2824.8	2604.6	2419.3	2371.2	2374.1	2413.1	2517.9	2750.1
32.5°	3317.1	3304.3	3231.6	3059.0	2807.2	2562.3	2440.7	2437.0	2444.8	2542.1	2796.5
35°	3585.8	3590.7	3505.7	3314.6	3031.5	2721.3	2522.8	2515.0	2497.8	2591.9	2862.2
37.5°	3873.4	3870.1	3760.0	3560.3	3266.1	2893.9	2640.8	2639.5	2580.0	2686.0	2965.4
40°	4065.7	4067.8	4000.8	3811.8	3503.2	3084.9	2792.0	2789.1	2711.0	2826.9	3100.5
42.5°	4140.9	4154.5	4171.7	4051.7	3751.4	3306.4	2972.3	2968.2	2893.9	3029.0	3259.6
45°	4146.2	4173.4	4280.2	4265.0	4002.8	3559.9	3202.9	3191.3	3137.9	3297.8	3449.4
47.5°	4100.2	4128.2	4305.7	4392.0	4227.6	3827.4	3472.4	3463.4	3417.3	3633.9	3654.8
50°	3999.6	4026.3	4253.1	4454.0	4412.5	4084.6	3783.0	3759.2	3734.5	4022.2	3889.9
52.5°	3811.0	3862.3	4182.8	4468.8	4523.0	4313.1	4109.7	4094.1	4107.6	4431.8	4125.3
55°	3364.3	3421.9	4001.6	4456.5	4604.8	4504.9	4436.3	4435.5	4505.8	4861.6	4378.0
57.5°	3114.1	3154.8	3632.6	4435.5	4701.8	4695.6	4759.7	4767.5	4904.3	5329.6	4642.6
60°	2972.8	3015.5	3445.7	4357.9	4852.1	4942.1	5089.6	5105.3	5309.5	5847.7	4961.0
62.5°	2844.1	2891.0	3329.8	4199.7	5029.2	5294.7	5484.9	5498.9	5738.4	6380.2	5268.8
65°	2624.3	2677.3	3160.1	4095.7	5190.3	5754.5	5987.4	5996.9	6231.1	6938.2	5504.2
67.5°	2313.7	2362.2	2840.0	3866.0	5309.5	6312.8	6655.5	6660.9	6719.6	7332.3	5624.6
70°	1950.9	1969.4	2384.0	3391.9	5168.5	6835.1	7387.7	7389.0	7165.0	7584.5	5604.9
72.5°	1370.7	1414.3	1730.6	2567.6	4441.7	6771.4	7767.8	7781.8	7372.1	7457.2	5157.0
75°	840.7	886.7	1085.6	1556.0	2817.9	5325.5	7176.9	7273.9	6983.8	6648.9	4212.8
77.5°	562.1	579.3	708.4	907.2	1276.6	3064.0	5517.8	5700.2	5801.7	4848.9	2694.2
80°	313.5	346.4	469.6	563.7	567.8	1217.5	3308.5	3351.2	3227.9	1930.8	831.2
82.5°	166.0	184.1	313.5	331.2	309.8	407.6	1233.1	1234.3	1031.3	517.7	246.9
85°	128.6	143.8	214.9	202.2	158.2	180.8	406.8	429.0	350.9	212.0	80.5
87.5°	64.1	79.7	145.9	128.2	62.0	51.8	145.5	155.3	138.5	83.0	29.2
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°	2145.6	2145.6	2145.6	2145.6	2145.6	2145.6	2145.6	2145.6	2145.6	2145.6	2145.6
2.5°	2151.0	2154.7	2159.2	2154.3	2152.6	2146.1	2135.0	2132.5	2126.7	2127.2	2130.4
5°	2169.9	2176.0	2173.6	2154.7	2132.1	2100.4	2067.6	2039.6	2021.1	2019.9	2018.7
7.5°	2206.0	2210.2	2190.8	2137.0	2073.7	2000.6	1931.6	1871.2	1834.6	1825.6	1823.5
10°	2262.7	2261.9	2208.9	2100.4	1974.3	1843.6	1732.7	1648.9	1600.0	1585.6	1581.9
12.5°	2326.0	2316.6	2215.1	2033.9	1833.8	1652.6	1512.1	1418.8	1367.8	1351.4	1347.3
15°	2391.4	2367.9	2199.9	1934.4	1661.2	1446.7	1299.2	1212.9	1185.4	1176.4	1174.7
17.5°	2452.2	2407.0	2156.3	1799.7	1464.4	1241.7	1126.6	1092.1	1098.7	1110.6	1111.0
20°	2511.7	2433.3	2086.5	1629.6	1256.9	1072.8	1033.8	1059.3	1090.5	1114.7	1118.0
22.5°	2570.5	2451.8	1996.5	1433.2	1071.2	977.9	1005.4	1051.9	1087.6	1113.9	1118.4
25°	2619.8	2456.3	1872.4	1223.6	942.2	942.2	991.9	1035.8	1071.2	1097.1	1101.6
27.5°	2637.9	2425.9	1697.4	1029.7	877.2	925.7	973.0	1009.5	1039.5	1067.1	1072.0
30°	2644.9	2369.6	1495.2	874.0	850.5	908.1	947.5	978.7	1007.1	1033.0	1037.5
32.5°	2646.1	2301.8	1280.7	785.6	832.0	889.6	915.9	943.4	973.8	984.1	985.7
35°	2653.9	2221.7	1054.7	740.4	814.8	872.3	893.3	913.0	863.7	867.4	870.7
37.5°	2676.5	2142.4	865.7	714.9	803.7	863.3	888.3	816.8	778.2	769.2	767.9
40°	2718.8	2057.7	725.6	694.4	799.6	867.8	856.7	762.6	696.0	646.3	638.9
42.5°	2777.6	1966.5	636.1	680.8	802.5	889.6	812.7	710.4	599.9	567.8	563.7
45°	2843.7	1870.8	587.6	671.4	812.3	906.4	803.7	641.0	555.1	530.9	528.8
47.5°	2907.8	1753.7	562.5	667.3	825.9	892.9	765.5	619.6	533.7	521.0	522.2
50°	2981.4	1648.1	547.3	662.8	837.8	884.2	722.3	608.5	525.5	541.1	557.6
52.5°	3043.4	1538.8	533.7	653.7	842.3	869.0	711.2	610.6	525.5	555.5	571.1
55°	3117.0	1456.2	518.1	634.8	833.7	825.9	703.4	622.9	531.7	512.8	514.4
57.5°	3211.9	1429.1	500.9	605.2	804.9	763.0	699.7	634.8	528.0	516.1	520.2
60°	3343.4	1457.8	493.9	566.6	760.1	713.7	700.1	628.7	502.1	481.6	482.0
62.5°	3468.7	1489.9	493.5	542.4	705.1	669.7	690.7	608.5	489.0	477.0	481.6
65°	3509.8	1457.4	473.8	515.3	643.0	617.2	673.4	587.2	479.1	461.0	460.2
67.5°	3454.7	1356.7	433.9	471.3	572.0	555.9	650.8	561.7	463.5	448.7	446.2
70°	3291.2	1132.0	384.6	413.4	491.0	486.9	615.1	532.1	442.5	429.8	419.1
72.5°	2851.1	806.6	324.2	343.9	399.8	412.9	565.8	493.5	412.9	385.4	369.0
75°	2341.6	597.0	266.3	270.4	303.6	339.4	498.0	448.3	378.0	331.2	318.4
77.5°	1434.0	365.3	212.0	213.7	217.8	270.8	410.1	397.7	333.6	276.1	267.1
80°	464.3	199.3	153.3	161.1	148.7	198.5	317.2	338.6	286.4	230.9	221.1
82.5°	176.7	116.3	103.5	108.9	103.1	133.1	231.3	271.2	234.6	189.8	154.5
85°	85.5	65.7	61.2	68.6	63.7	68.2	147.9	199.7	177.9	123.7	115.0
87.5°	30.4	29.2	23.4	31.6	27.1	24.2	45.2	100.7	117.5	85.1	76.0
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)