

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: P300309

Luminaire Tested: **GAA-AF-03-LED-U-T4FT-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-03-LED-U-T4FT-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17623.5 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

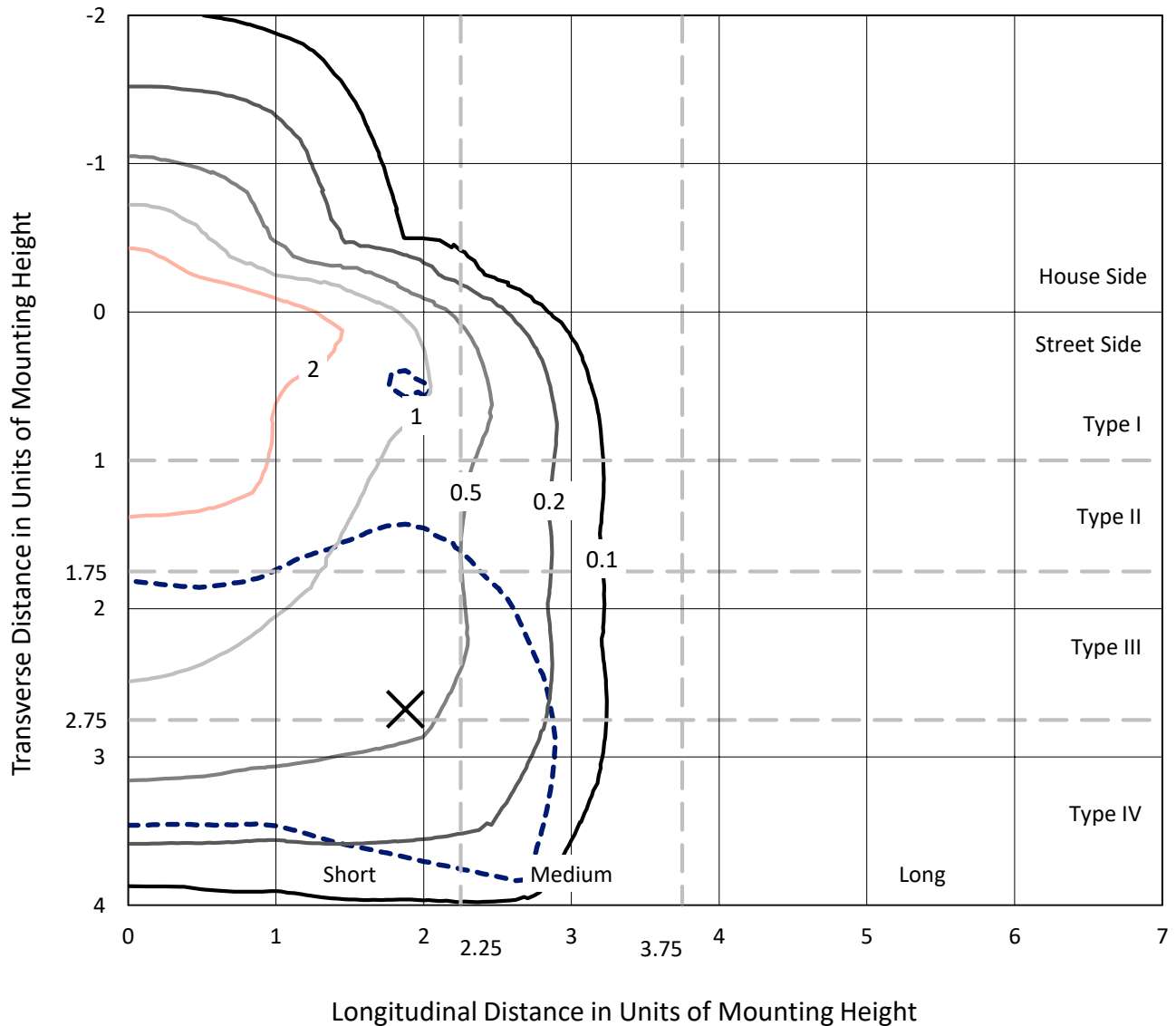
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

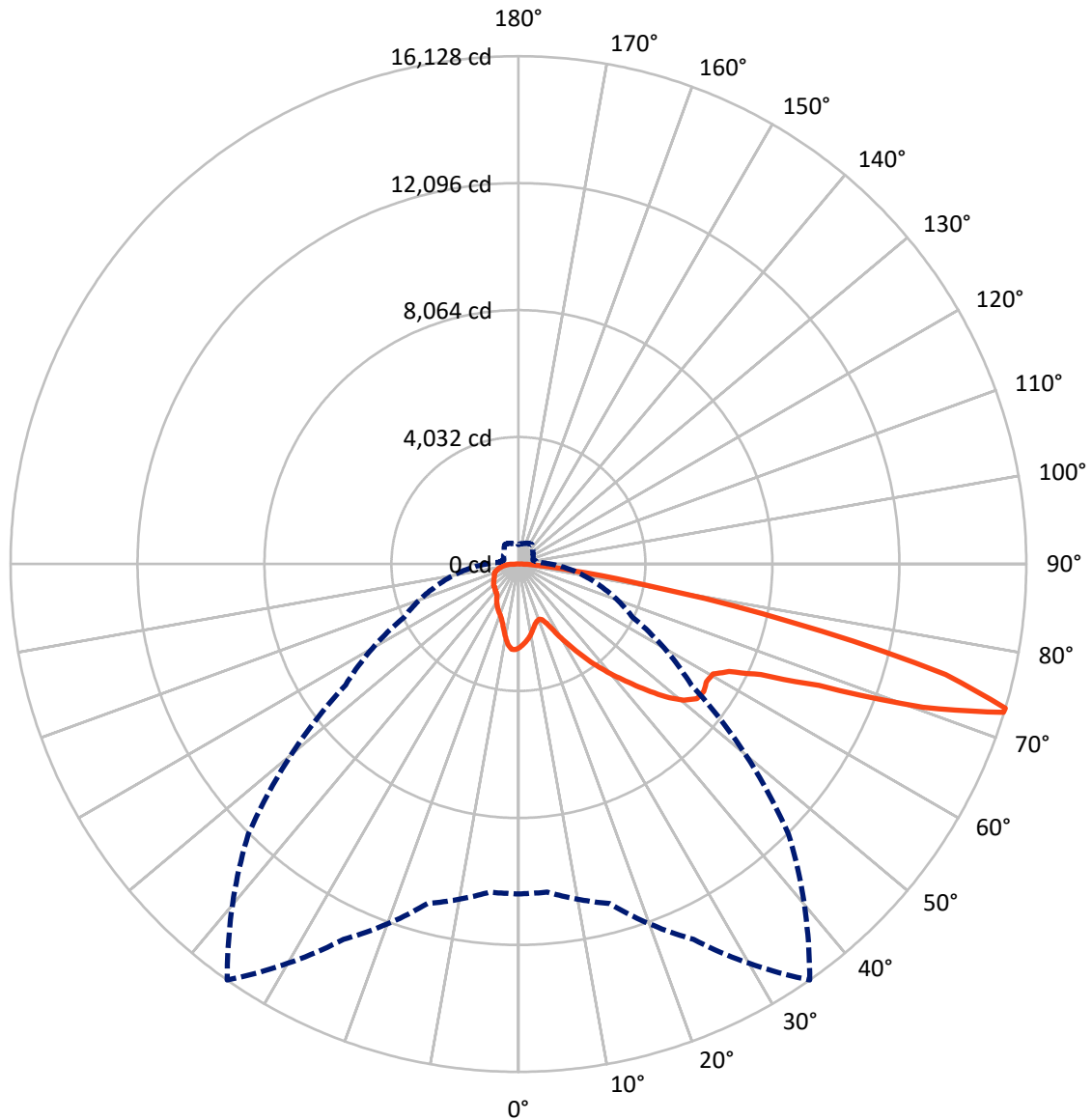
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3361.3	0.0	3361.3
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	14262.2	0.0	14262.2
	% Fixture	80.9	0.0	80.9
Total	Lumens	17623.5	0.0	17623.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.8	1.4
10°-20°	601.0	3.4
20°-30°	971.6	5.5
30°-40°	1629.3	9.2
40°-50°	2511.4	14.3
50°-60°	3369.3	19.1
60°-70°	4488.6	25.5
70°-80°	3423.5	19.4
80°-90°	388.0	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°	17623.5	100.0
0°-180°	17623.5	100.0



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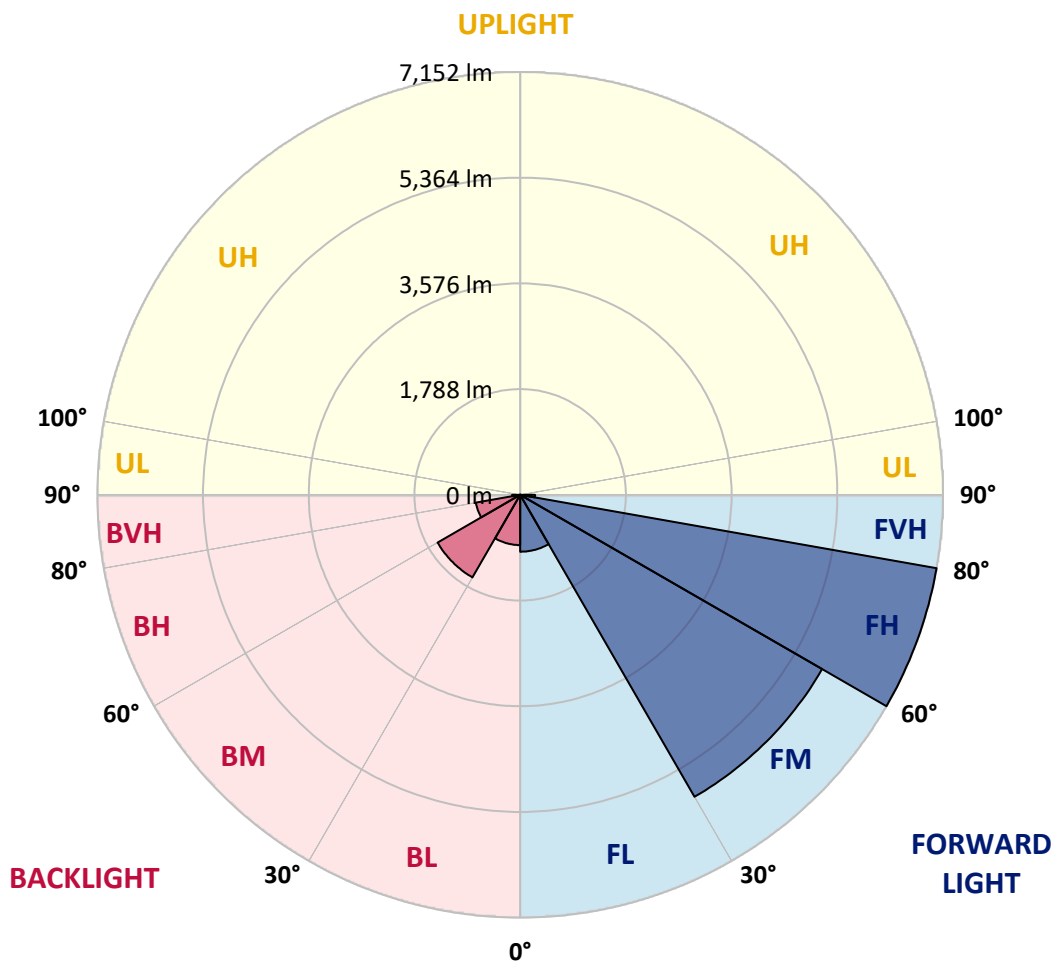
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	962.8	5.5			
FM	(30°-60°)	5896.9	33.5			
FH	(60°-80°)	7151.6	40.6			G3/7500
FVH	(80°-90°)	250.8	1.4			G3/500
BL	(0°-30°)	850.6	4.8	B2/1000		
BM	(30°-60°)	1613.0	9.2	B2/2500		
BH	(60°-80°)	760.5	4.3	B2/1000		G2/1000
BVH	(80°-90°)	137.2	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°	35°	45°	55°	65°	75°	85°	90°
0°	2659.9	2659.9	2659.9	2659.9	2659.9	2659.9	2659.9	2659.9	2659.9	2659.9	2659.9
2.5°	2555.0	2560.1	2554.1	2561.8	2574.5	2588.0	2597.3	2610.8	2626.1	2647.2	2652.3
5°	2434.8	2442.4	2442.4	2456.0	2480.5	2502.5	2522.8	2544.8	2577.0	2613.4	2627.8
7.5°	2302.8	2307.0	2314.6	2335.0	2370.5	2401.8	2430.6	2466.1	2510.1	2558.4	2583.8
10°	2143.7	2149.6	2161.5	2190.2	2238.5	2281.6	2323.1	2372.2	2428.0	2488.1	2520.3
12.5°	2031.1	2029.4	2034.5	2055.7	2098.0	2150.5	2210.5	2273.2	2341.7	2412.0	2450.9
15°	1993.0	1983.7	1964.3	1959.2	1982.0	2034.5	2103.9	2180.9	2263.0	2347.6	2395.9
17.5°	2016.7	2000.7	1947.3	1908.4	1905.0	1944.8	2018.4	2104.8	2199.5	2302.8	2362.9
20°	2165.7	2127.6	1996.4	1905.9	1874.6	1894.0	1958.3	2049.7	2161.5	2298.6	2375.6
22.5°	2522.0	2466.1	2187.7	2019.3	1913.5	1889.8	1938.0	2035.4	2165.7	2351.0	2449.2
25°	3040.8	2961.2	2516.1	2301.9	2083.6	1957.5	1968.5	2068.4	2225.8	2472.9	2591.4
27.5°	3450.4	3398.8	2945.1	2700.6	2393.3	2140.3	2067.5	2151.3	2348.5	2672.6	2793.7
30°	3694.1	3662.8	3403.8	3152.5	2788.6	2431.4	2257.1	2307.0	2540.6	2949.4	3049.2
32.5°	3976.8	3958.2	3831.2	3600.2	3215.1	2814.0	2557.5	2539.8	2797.9	3282.0	3327.7
35°	4269.6	4263.7	4189.2	4023.3	3673.0	3318.4	2956.1	2836.0	3078.0	3627.3	3598.5
37.5°	4542.1	4532.0	4488.8	4392.3	4152.0	3860.0	3362.4	3139.8	3380.1	3957.3	3829.5
40°	5044.0	4964.4	4816.3	4743.5	4636.1	4316.2	3684.8	3423.3	3693.3	4272.1	4029.3
42.5°	5655.9	5526.4	5250.5	5150.6	5135.4	4675.8	3904.8	3698.4	4008.9	4584.4	4225.6
45°	6137.4	6015.5	5777.7	5651.6	5707.5	5001.7	4125.7	3992.0	4333.9	4912.0	4427.9
47.5°	6651.1	6459.8	6145.0	6183.1	6305.0	5309.7	4350.9	4307.7	4690.2	5278.4	4679.2
50°	6669.7	6523.3	6385.4	6613.0	6802.6	5593.2	4632.7	4638.6	5126.1	5739.6	5013.5
52.5°	6283.0	6251.7	6470.8	6828.8	7102.2	5817.5	4953.4	4980.5	5683.8	6269.4	5380.8
55°	6147.6	6112.0	6365.1	6753.5	7142.8	6002.8	5301.3	5350.3	6358.3	6828.0	5738.8
57.5°	6477.6	6398.9	6415.8	6718.0	7043.8	6206.0	5680.4	5779.4	7091.2	7316.3	5969.0
60°	7400.1	7231.7	6911.8	6904.2	7097.1	6510.6	6118.8	6239.8	7852.9	7549.9	5879.3
62.5°	8694.1	8525.7	7926.5	7536.3	7507.6	7013.3	6657.0	6689.2	8292.9	7233.4	5331.7
65°	10094.7	9944.1	9274.7	8723.7	8458.0	7846.1	7282.5	6889.8	8149.1	6362.5	4373.7
67.5°	11794.9	11633.3	11057.8	10549.2	10293.6	9190.0	7721.7	6697.7	7235.9	4928.9	3144.0
70°	12984.0	12819.0	12592.2	13004.3	13629.7	11128.9	7778.4	5916.5	5404.5	3276.0	1892.3
72.5°	11432.7	11355.7	11769.6	13505.3	16110.3	12305.3	7031.1	4307.7	3138.9	1739.2	1095.1
73°	10474.7	10457.8	11163.6	13154.1	16128.0	12124.2	6703.6	4003.9	2692.1	1538.6	1001.2
75°	4730.0	4866.3	6413.3	10047.3	14012.3	9990.6	4718.1	2296.9	1520.8	1063.0	755.8
77.5°	1136.6	1184.0	2006.6	4771.5	8849.0	5953.8	2137.8	1135.7	972.4	750.7	551.8
80°	484.1	500.2	772.7	1762.9	4166.4	2397.6	985.1	760.8	672.8	523.9	386.8
82.5°	269.1	286.1	438.4	799.8	1681.6	817.5	600.9	529.8	442.6	315.7	251.4
85°	152.3	161.6	256.4	446.8	712.6	328.4	359.7	352.1	249.7	162.5	123.6
87.5°	71.9	77.9	123.6	207.3	279.3	128.6	182.8	201.4	156.6	99.0	64.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2659.9	2659.9	2659.9	2659.9	2659.9	2659.9	2659.9	2659.9	2659.9	2659.9
2.5°	2658.2	2673.5	2691.2	2700.6	2709.0	2719.2	2729.3	2729.3	2731.0	2731.9
5°	2639.6	2670.9	2698.9	2710.7	2713.3	2713.3	2710.7	2697.2	2685.3	2690.4
7.5°	2600.7	2646.4	2670.1	2665.9	2633.7	2596.5	2565.1	2527.1	2507.6	2504.2
10°	2544.8	2597.3	2601.5	2559.2	2479.7	2400.1	2334.1	2269.8	2239.3	2231.7
12.5°	2483.1	2531.3	2504.2	2417.0	2289.3	2173.3	2089.5	2024.4	1995.6	1988.0
15°	2433.1	2466.1	2397.6	2260.5	2099.7	1977.0	1907.6	1859.3	1839.0	1833.1
17.5°	2406.9	2413.7	2288.4	2103.1	1932.1	1829.7	1786.5	1763.7	1756.1	1751.9
20°	2419.6	2372.2	2184.3	1956.7	1795.0	1723.1	1712.9	1707.0	1705.3	1702.8
22.5°	2483.1	2359.5	2088.7	1817.9	1674.8	1643.5	1652.0	1651.1	1649.4	1647.8
25°	2596.5	2370.5	1995.6	1685.8	1574.1	1567.4	1582.6	1582.6	1575.8	1575.8
27.5°	2746.3	2393.3	1891.5	1560.6	1482.7	1483.6	1495.4	1492.0	1484.4	1479.3
30°	2929.1	2407.7	1769.6	1448.0	1397.2	1393.9	1397.2	1382.9	1360.0	1358.3
32.5°	3116.1	2390.0	1628.3	1348.2	1306.7	1299.1	1296.5	1276.2	1250.0	1242.4
35°	3285.4	2324.8	1484.4	1268.6	1220.4	1203.4	1215.3	1208.5	1184.8	1178.9
37.5°	3408.9	2203.8	1354.9	1198.4	1158.6	1154.4	1162.0	1164.5	1136.6	1130.7
40°	3491.9	2039.6	1244.1	1139.1	1146.7	1130.7	1105.3	1087.5	1079.0	1076.5
42.5°	3558.7	1868.6	1151.0	1111.2	1149.3	1102.7	1047.7	1019.0	1034.2	1041.0
45°	3635.7	1701.9	1073.1	1076.5	1136.6	1070.6	1007.9	980.0	985.9	987.6
47.5°	3741.5	1498.8	989.3	1020.6	1094.3	1048.6	983.4	943.6	915.7	903.0
50°	3887.9	1258.5	902.2	958.0	1052.8	1032.5	945.3	903.0	851.4	839.5
52.5°	3989.5	1034.2	830.2	905.5	1015.6	1000.3	914.9	859.8	805.7	795.5
55°	3934.5	859.0	767.6	847.2	966.5	960.6	889.5	815.8	773.5	765.1
57.5°	3659.4	748.1	719.4	792.1	906.4	926.7	855.6	778.6	748.1	742.2
60°	3134.7	678.7	688.9	754.9	857.3	892.9	821.8	758.3	738.0	733.7
62.5°	2432.3	632.2	666.0	727.8	819.2	869.2	803.1	755.8	748.1	743.1
65°	1742.5	595.0	641.5	700.7	784.5	847.2	796.4	752.4	754.1	749.8
67.5°	1184.0	561.9	611.9	670.3	750.7	827.7	787.1	740.5	761.7	756.6
70°	828.5	529.8	577.2	631.3	708.4	800.6	770.1	722.7	721.1	700.7
72.5°	646.6	487.5	529.8	577.2	654.2	762.5	736.3	683.0	655.0	633.9
73°	617.0	477.3	517.9	565.3	642.3	753.2	727.0	672.0	640.7	621.2
75°	510.3	433.3	470.5	512.9	591.6	709.2	681.3	622.0	582.3	570.4
77.5°	401.1	370.7	406.2	444.3	521.3	644.9	613.6	556.9	534.9	524.7
80°	297.1	307.2	338.5	372.4	451.9	576.3	548.4	491.7	589.9	565.3
82.5°	209.0	232.7	261.5	292.0	379.1	509.5	475.6	417.2	431.6	358.8
85°	123.6	152.3	179.4	205.7	273.4	422.3	392.7	332.6	272.5	259.8
87.5°	71.9	84.6	92.2	119.3	187.9	318.2	276.7	246.3	141.3	95.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)