

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: P266788

Luminaire Tested: **GAN-AF-03-LED-U-T3-7027-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-T3-7027-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15791 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

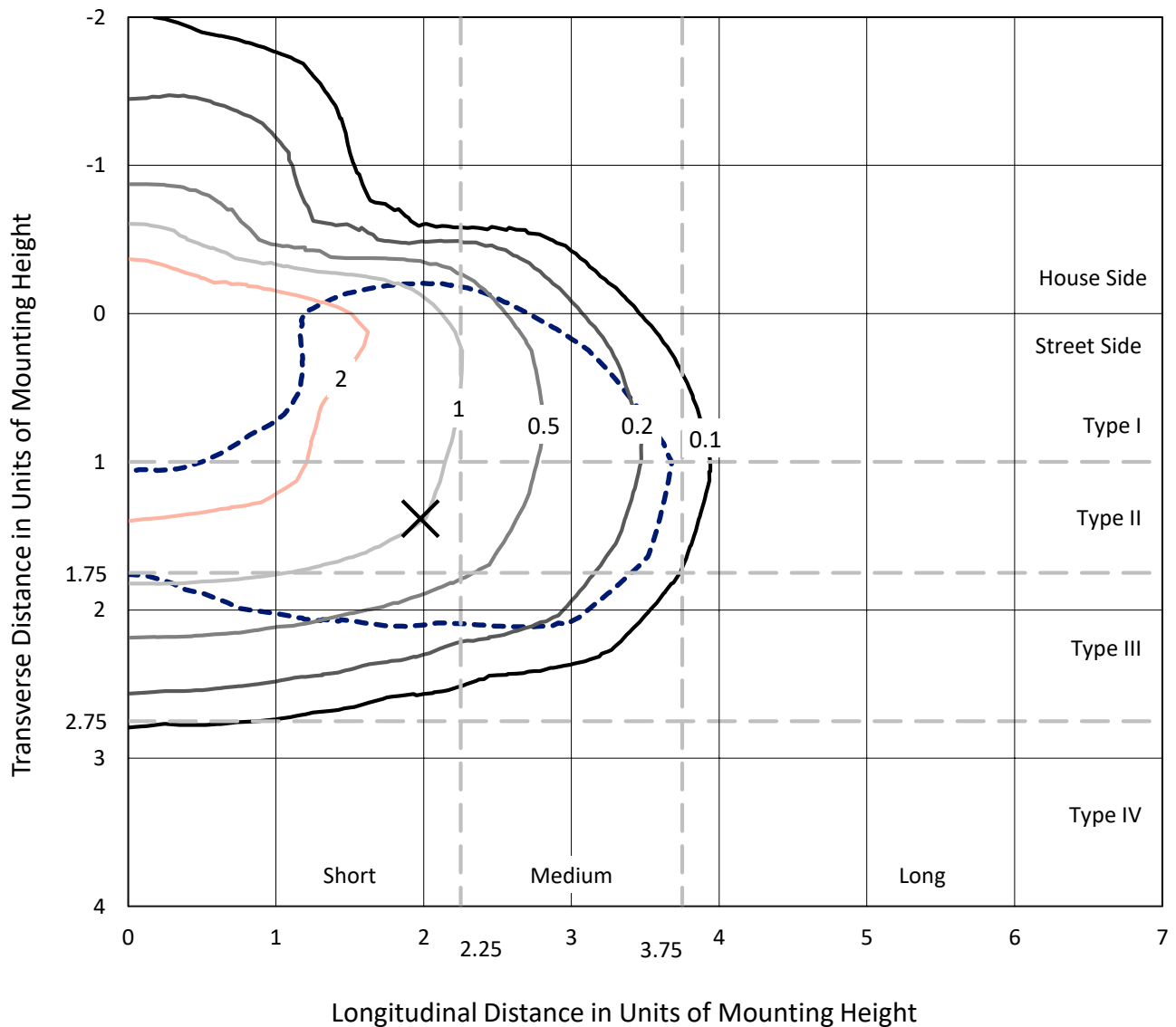
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

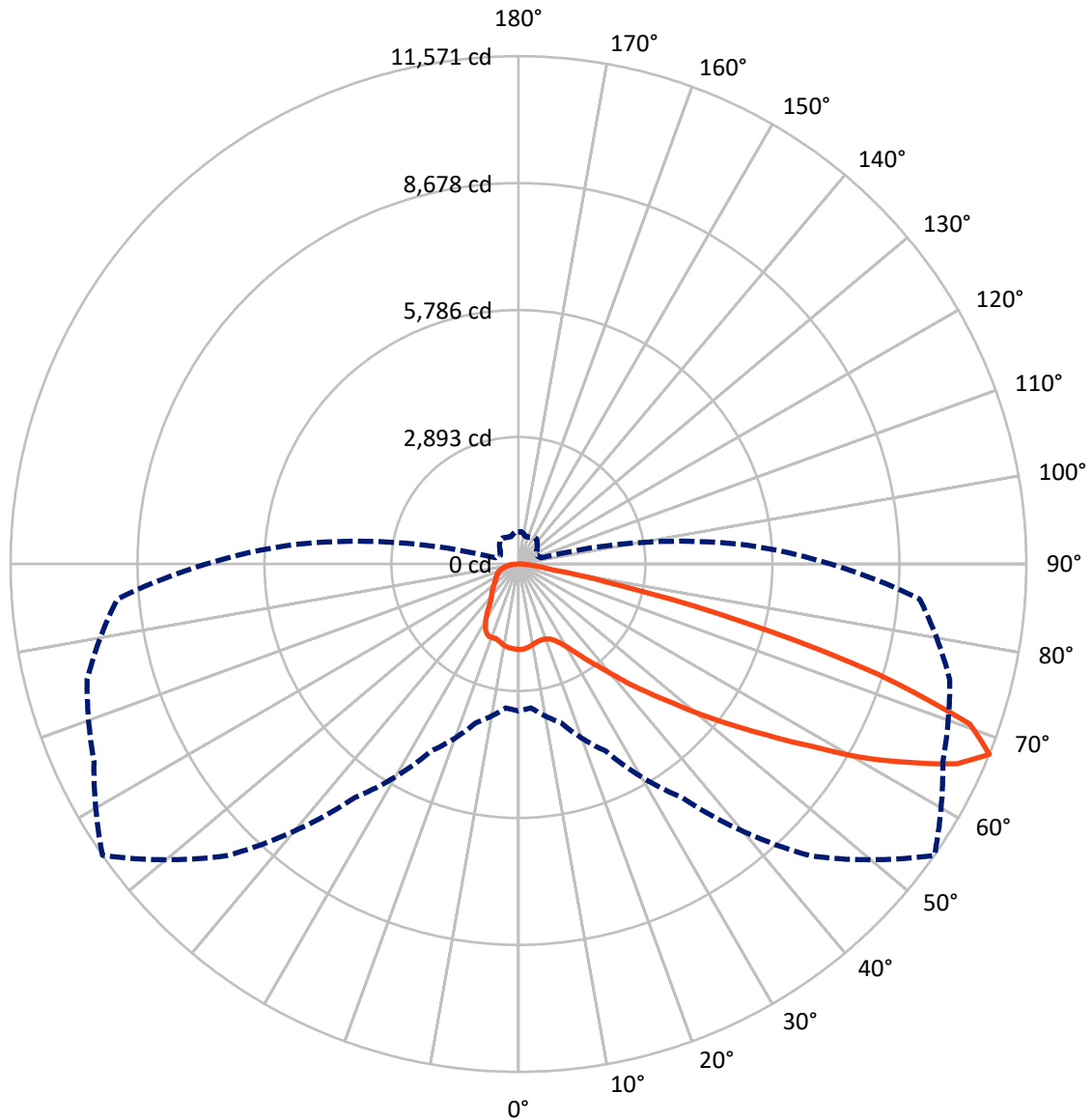
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3411.2	0.0	3411.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	12379.8	0.0	12379.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	15791.0	0.0	15791.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.8	1.2
10°-20°	514.7	3.3
20°-30°	862.3	5.5
30°-40°	1417.9	9.0
40°-50°	2386.8	15.1
50°-60°	3756.7	23.8
60°-70°	4483.2	28.4
70°-80°	1925.2	12.2
80°-90°	262.5	1.7
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°	15791.0	100.0
0°-180°	15791.0	100.0



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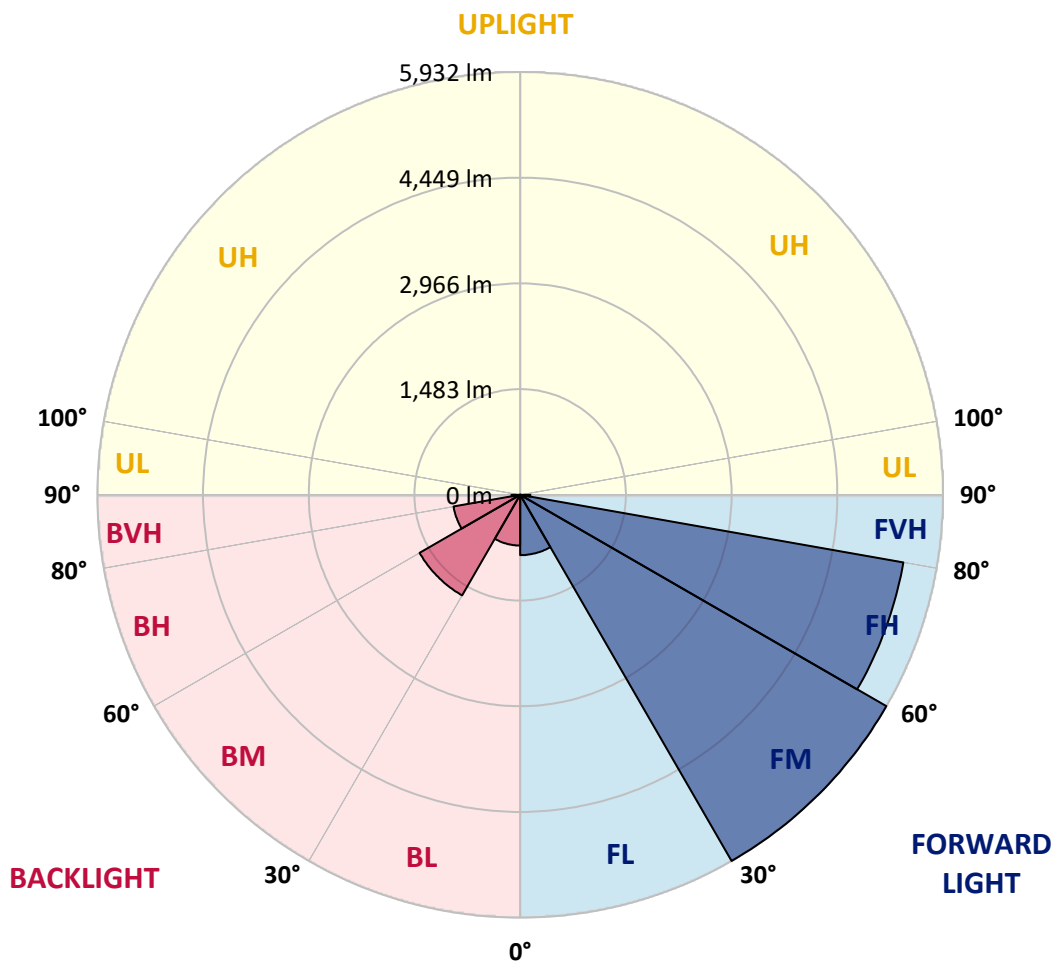
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	846.4	5.4			
FM	(30°-60°)	5932.3	37.6			
FH	(60°-80°)	5459.0	34.6			G3/7500
FVH	(80°-90°)	142.1	0.9			G2/225
BL	(0°-30°)	712.3	4.5	B2/1000		
BM	(30°-60°)	1629.2	10.3	B2/2500		
BH	(60°-80°)	949.3	6.0	B2/1000		G2/1000
BVH	(80°-90°)	120.4	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1947.2	1947.2	1947.2	1947.2	1947.2	1947.2	1947.2	1947.2	1947.2	1947.2	1947.2
2.5°	1930.5	1931.1	1932.8	1938.8	1944.1	1942.7	1943.5	1940.3	1939.6	1934.9	1939.6
5°	1906.1	1908.3	1909.1	1919.0	1925.1	1926.7	1924.3	1920.5	1915.9	1911.4	1913.7
7.5°	1850.4	1856.4	1857.2	1870.9	1880.8	1893.8	1894.5	1895.3	1893.1	1890.0	1894.5
10°	1815.2	1816.8	1816.1	1826.0	1833.6	1848.1	1856.4	1870.9	1877.1	1878.5	1881.6
12.5°	1813.0	1811.4	1809.1	1809.1	1806.9	1813.0	1828.2	1848.8	1863.4	1867.8	1871.7
15°	1837.4	1836.7	1828.9	1817.5	1803.1	1798.4	1811.4	1834.2	1853.5	1863.4	1867.1
17.5°	1892.3	1887.7	1875.5	1849.6	1818.3	1806.1	1807.6	1826.8	1848.8	1861.7	1865.6
20°	1993.0	1993.0	1967.1	1918.2	1862.5	1833.6	1819.8	1831.3	1852.7	1870.2	1875.5
22.5°	2166.9	2168.4	2124.9	2044.8	1950.9	1889.2	1854.9	1852.7	1877.7	1897.6	1903.8
25°	2413.2	2407.1	2346.2	2231.7	2089.1	1987.0	1927.4	1913.7	1934.9	1957.1	1964.8
27.5°	2700.0	2677.8	2605.4	2467.4	2282.9	2133.4	2041.8	2019.7	2040.3	2065.5	2073.1
30°	2983.7	2960.9	2874.7	2723.7	2518.5	2329.3	2198.2	2162.3	2191.2	2227.1	2231.7
32.5°	3267.4	3267.4	3171.3	2995.2	2771.7	2563.6	2406.4	2363.6	2411.7	2455.2	2465.0
35°	3606.9	3608.4	3515.3	3303.2	3063.1	2842.6	2669.6	2638.2	2710.6	2741.2	2764.9
37.5°	4024.0	4032.5	3912.7	3656.5	3393.3	3161.4	2955.6	2912.8	2985.2	3068.4	3144.6
40°	4474.8	4485.5	4353.5	4037.8	3774.7	3532.1	3309.4	3232.5	3353.0	3511.6	3609.8
42.5°	4905.0	4959.9	4832.5	4507.6	4224.6	3973.7	3748.0	3635.9	3786.9	4026.4	4111.8
45°	5526.6	5566.3	5344.3	5049.9	4783.7	4503.1	4204.1	4085.9	4297.1	4599.1	4616.7
47.5°	5940.9	5911.0	5798.2	5615.0	5446.6	5184.2	4734.2	4604.5	4885.3	5240.6	5142.2
50°	6161.2	6170.4	6155.0	6165.7	6171.9	6007.1	5384.0	5206.2	5541.1	5970.6	5744.0
52.5°	6367.1	6306.1	6356.4	6606.7	6908.7	6847.7	6091.0	5905.6	6244.4	6780.5	6380.1
55°	6362.5	6269.5	6433.5	6875.1	7530.3	7600.5	6885.0	6671.4	6987.9	7649.2	7054.3
57.5°	6137.6	6142.2	6394.6	6972.7	7963.6	8308.2	7806.5	7486.0	7776.6	8529.4	7669.9
60°	5827.9	5869.9	6233.7	6956.7	8310.5	8888.6	8936.7	8363.8	8549.3	9329.5	8179.3
62.5°	5328.3	5372.6	5874.5	6790.5	8257.8	9447.7	9958.8	9360.0	9356.9	9814.6	8328.8
65°	4540.5	4527.5	5054.6	6168.8	7816.3	9861.1	10974.0	10221.2	9965.6	9822.2	8028.3
67.5°	3348.3	3290.3	3742.7	4698.3	6496.8	9398.2	11571.2	10669.6	10173.0	9176.2	7110.1
70°	1737.4	1679.6	2045.6	2743.5	4272.7	7335.0	10909.8	10437.8	9714.7	7691.9	5570.1
72.5°	742.9	732.9	881.6	1203.5	2067.0	4230.7	8554.6	9034.3	8335.7	5731.0	3829.6
75°	499.5	496.6	552.2	655.9	929.7	1716.9	5353.4	6412.9	6098.7	3553.4	2153.9
77.5°	392.0	388.2	421.0	471.4	602.6	677.3	2375.8	3442.9	3186.6	1546.8	942.7
80°	306.6	303.5	324.2	351.5	433.3	427.1	781.7	1369.8	1060.2	592.6	458.3
82.5°	241.7	241.7	258.5	259.3	307.4	291.4	408.1	603.3	529.3	345.5	280.7
85°	221.3	221.3	238.7	193.8	200.6	183.9	253.2	357.7	335.5	141.8	122.0
87.5°	111.4	108.2	200.6	171.5	109.1	97.6	123.5	173.2	186.0	78.5	61.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1947.2	1947.2	1947.2	1947.2	1947.2	1947.2	1947.2	1947.2	1947.2	1947.2
2.5°	1938.1	1937.3	1938.8	1939.6	1945.6	1954.1	1957.9	1963.2	1966.3	1964.8
5°	1915.1	1916.8	1922.8	1927.4	1938.1	1951.7	1959.5	1965.5	1970.8	1968.5
7.5°	1896.1	1899.9	1909.1	1912.9	1919.0	1922.8	1922.1	1924.3	1928.9	1923.6
10°	1885.5	1890.0	1897.0	1891.6	1877.1	1856.4	1837.4	1827.4	1830.6	1826.8
12.5°	1874.8	1880.8	1875.5	1850.4	1809.9	1783.2	1768.8	1770.3	1777.1	1778.6
15°	1868.7	1870.9	1848.1	1800.7	1759.6	1755.7	1763.5	1761.8	1762.7	1762.7
17.5°	1868.7	1862.5	1819.8	1772.5	1755.0	1748.1	1724.4	1694.7	1681.7	1677.2
20°	1878.5	1862.5	1810.7	1779.5	1741.3	1682.5	1620.1	1565.0	1540.8	1533.9
22.5°	1908.3	1880.8	1836.7	1782.4	1674.1	1575.7	1476.6	1411.0	1366.9	1359.1
25°	1968.5	1938.1	1887.7	1742.1	1567.5	1427.0	1314.2	1241.0	1196.7	1190.7
27.5°	2073.7	2054.0	1915.1	1652.8	1425.5	1275.2	1170.9	1114.3	1081.5	1079.3
30°	2232.5	2222.5	1901.4	1520.8	1250.9	1128.0	1077.6	1044.9	1020.6	1019.8
32.5°	2485.7	2405.7	1856.4	1359.9	1091.4	1023.6	1003.0	983.1	964.2	964.2
35°	2811.3	2553.5	1771.0	1187.6	994.6	965.6	939.6	908.4	883.3	881.6
37.5°	3194.3	2645.1	1617.7	1048.7	948.8	926.7	888.6	842.0	797.9	790.1
40°	3581.0	2672.5	1401.8	963.3	919.9	887.9	841.3	786.3	743.6	741.3
42.5°	3935.7	2619.9	1173.0	904.6	890.8	848.1	799.3	750.5	716.9	716.2
45°	4233.1	2483.5	980.9	848.9	860.3	812.2	768.8	729.2	703.3	698.0
47.5°	4512.9	2290.4	845.8	790.1	829.9	792.5	755.8	718.5	693.3	689.4
50°	4837.9	2082.2	751.3	732.9	803.2	785.6	766.6	727.6	685.6	681.2
52.5°	5231.5	1902.3	677.3	682.6	782.6	794.7	794.0	753.6	680.3	674.3
55°	5670.8	1702.4	621.5	641.4	774.2	811.4	800.8	777.9	684.9	675.7
57.5°	6103.3	1469.0	582.7	610.2	761.9	810.0	768.1	735.3	695.6	682.6
60°	6427.5	1155.5	552.9	582.7	735.3	784.8	732.2	688.7	693.3	683.4
62.5°	6448.8	893.2	517.2	559.0	694.7	759.6	708.6	668.1	703.3	694.1
65°	6069.7	674.9	482.7	530.9	651.4	743.6	685.6	656.8	723.9	714.0
67.5°	5110.2	543.0	453.9	501.9	608.0	710.1	665.0	646.1	742.1	724.6
70°	3689.2	462.9	425.5	466.8	568.9	671.9	646.8	626.9	692.6	665.0
72.5°	2271.4	401.3	393.5	420.2	539.3	632.2	619.3	591.2	624.0	601.8
75°	1134.2	347.9	357.7	374.6	497.3	587.3	573.6	545.4	549.9	545.4
77.5°	543.0	297.5	315.8	328.7	443.1	536.2	521.6	492.7	487.4	488.0
80°	344.1	248.7	266.2	275.3	395.9	476.7	462.2	433.3	494.2	458.3
82.5°	215.1	202.1	206.7	223.5	344.8	414.8	395.9	369.9	445.4	352.3
85°	118.9	141.2	147.2	161.7	265.4	347.0	328.1	295.2	264.7	260.1
87.5°	71.0	83.9	86.1	96.8	178.5	250.9	221.9	210.6	174.7	173.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)