

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: P268178

Luminaire Tested: **GAN-AF-01-LED-U-AFL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-AFL-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6094 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 67
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

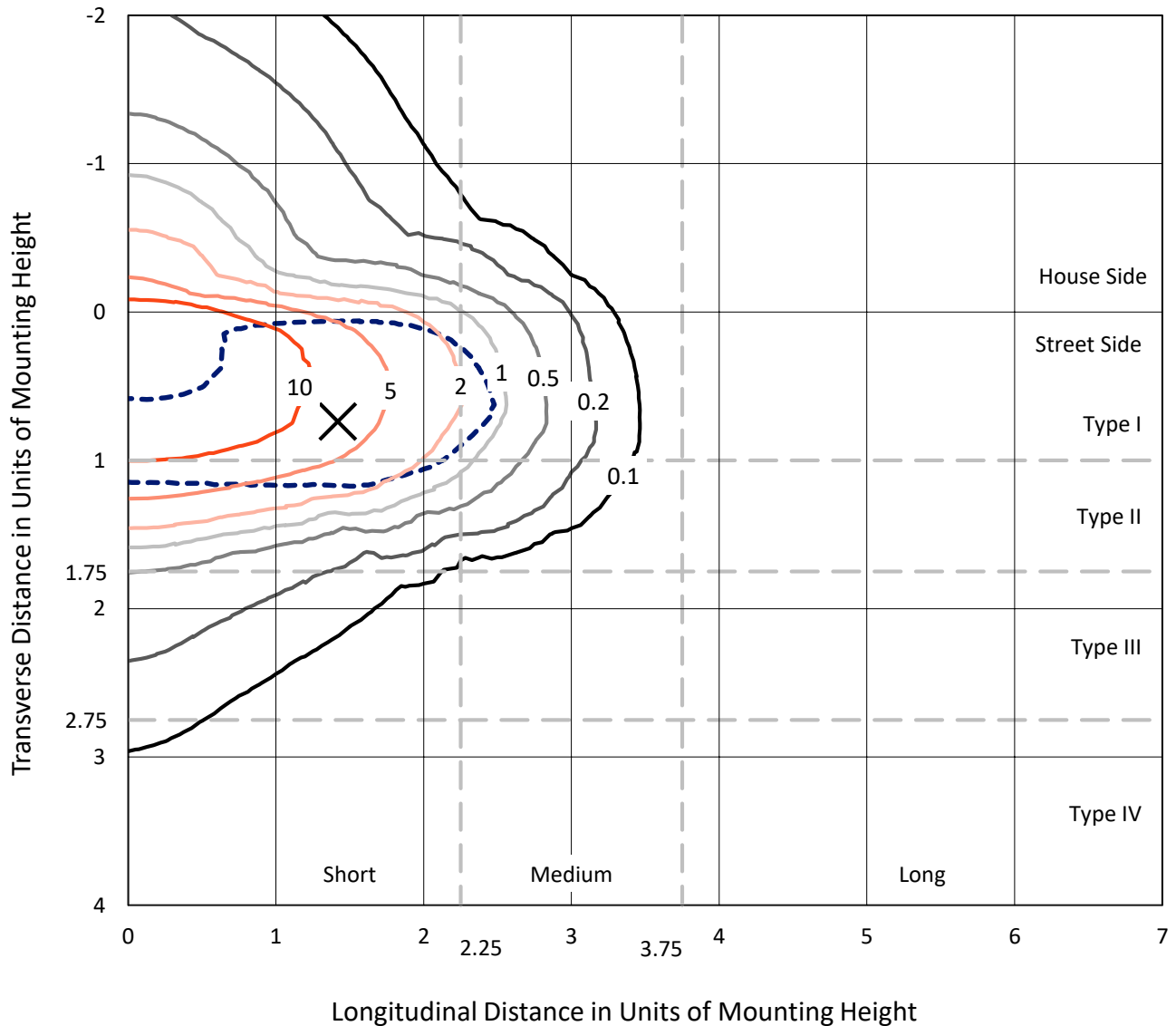


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

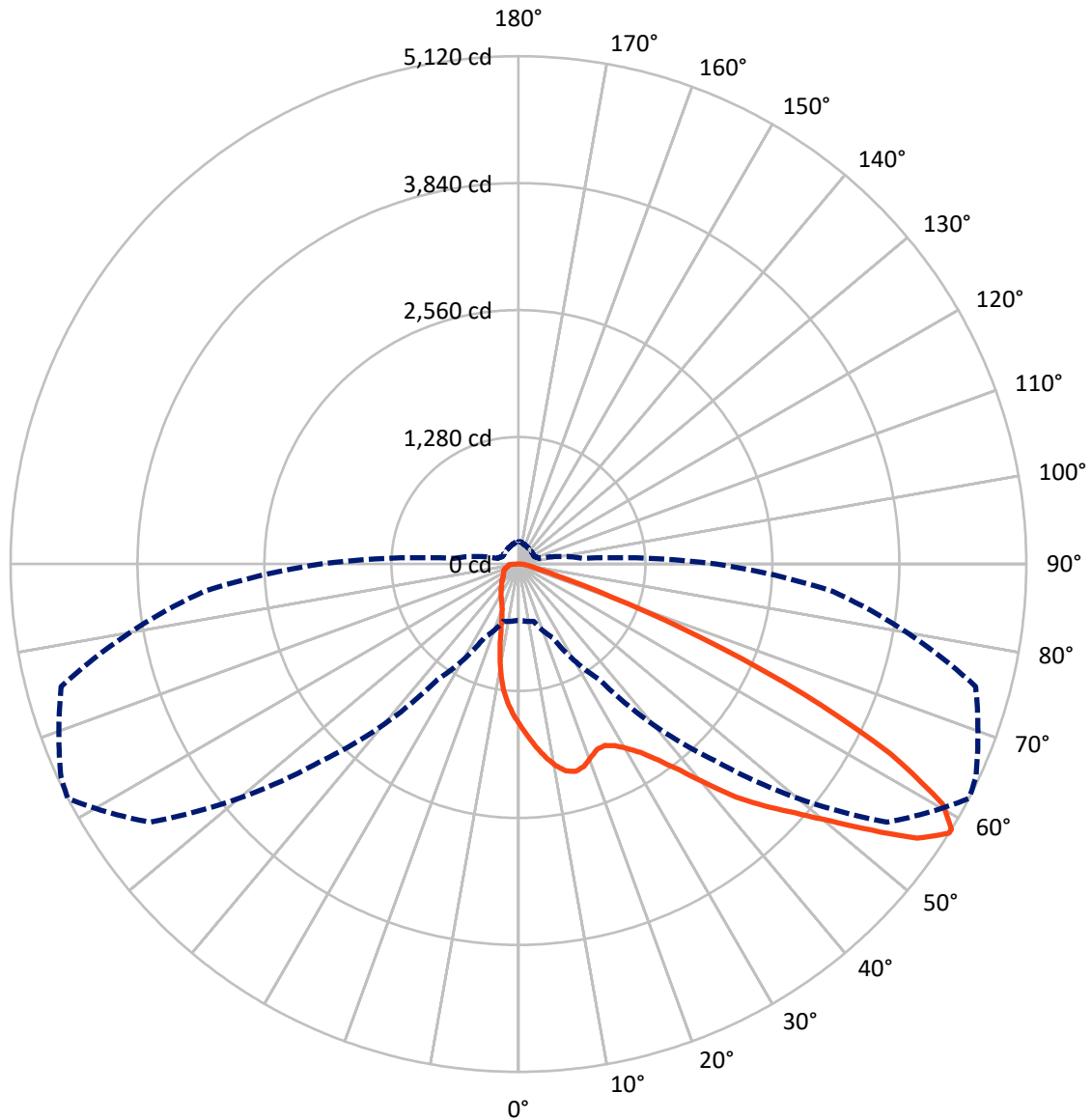


Based on 10 foot mounting height. Maximum calculated value = 19.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	929.4	0.0	929.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	5164.6	0.0	5164.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	6094.0	0.0	6094.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	2.4
10°-20°	370.1	6.1
20°-30°	598.2	9.8
30°-40°	949.7	15.6
40°-50°	1389.6	22.8
50°-60°	1453.4	23.8
60°-70°	858.7	14.1
70°-80°	241.9	4.0
80°-90°	87.8	1.4
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°	6094.0	100.0
0°-180°	6094.0	100.0

Coefficient of Utilization



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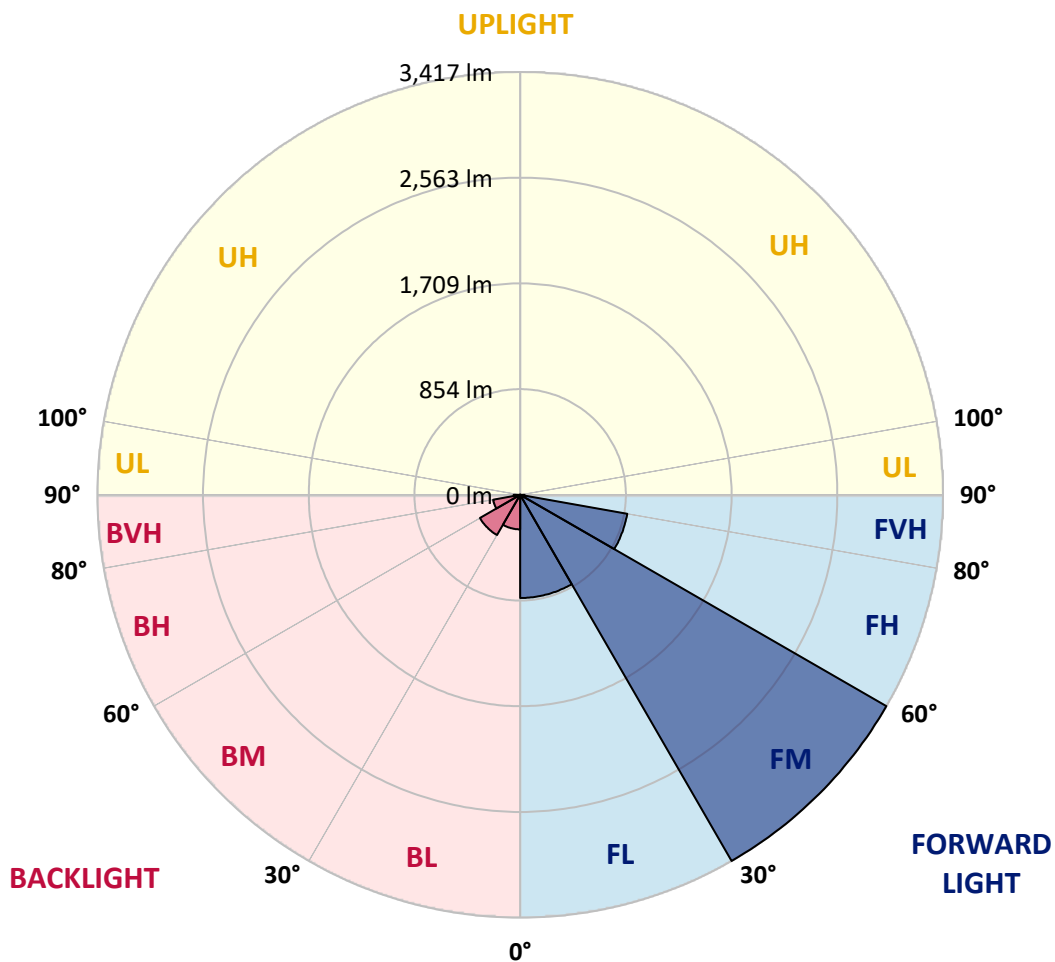
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	833.7	13.7			
FM (30°-60°)	3417.5	56.1			
FH (60°-80°)	878.8	14.4			G1/1800
FVH (80°-90°)	34.6	0.6			G1/100
BL (0°-30°)	279.3	4.6	B1/500		
BM (30°-60°)	375.1	6.2	B1/1000		
BH (60°-80°)	221.8	3.6	B1/500		G1/500
BVH (80°-90°)	53.2	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	1618.7	1618.7	1618.7	1618.7	1618.7	1618.7	1618.7	1618.7	1618.7	1618.7	1618.7
2.5°	1849.8	1834.9	1825.4	1817.0	1806.1	1782.9	1751.7	1731.8	1721.8	1687.6	1647.1
5°	2031.1	2018.0	2008.2	1996.9	1977.4	1941.0	1890.6	1850.2	1830.6	1762.2	1681.3
7.5°	1988.7	1994.1	2011.0	2040.6	2065.8	2060.9	2015.8	1964.9	1938.7	1843.7	1721.0
10°	1732.7	1742.2	1771.4	1840.5	1952.5	2067.3	2102.3	2067.0	2040.6	1924.3	1761.7
12.5°	1681.3	1681.0	1683.3	1701.7	1768.3	1929.7	2105.2	2140.8	2124.9	2001.2	1803.3
15°	1702.3	1702.8	1701.1	1708.8	1729.5	1793.6	2017.4	2169.1	2180.4	2078.8	1846.2
17.5°	1757.4	1755.9	1749.3	1749.3	1756.7	1781.8	1914.0	2142.7	2194.4	2147.4	1884.1
20°	1849.8	1843.1	1825.6	1809.5	1801.6	1815.0	1871.6	2081.9	2169.9	2207.3	1915.5
22.5°	1961.7	1956.5	1928.1	1893.6	1865.8	1865.5	1893.4	2028.8	2127.8	2263.9	1941.9
25°	2106.3	2098.0	2055.9	2000.6	1951.8	1933.2	1941.0	2026.2	2104.9	2325.3	1965.4
27.5°	2276.1	2260.9	2211.1	2131.6	2059.9	2022.3	2011.0	2073.0	2125.7	2401.3	1998.1
30°	2482.2	2464.7	2400.7	2297.1	2195.8	2134.2	2110.3	2155.9	2195.3	2494.0	2050.7
32.5°	2716.7	2691.4	2617.4	2503.1	2370.0	2275.9	2237.1	2265.5	2296.8	2605.7	2116.3
35°	3040.7	3010.5	2903.5	2745.8	2595.6	2466.1	2404.1	2424.9	2455.2	2772.1	2211.4
37.5°	3261.6	3248.1	3176.9	3028.8	2865.4	2716.4	2620.5	2632.7	2649.8	2980.0	2333.0
40°	3259.6	3265.1	3266.4	3267.9	3156.6	3014.0	2911.0	2898.3	2894.9	3208.6	2471.2
42.5°	3096.3	3118.6	3191.0	3337.7	3405.4	3340.0	3245.5	3209.0	3191.0	3477.7	2617.9
45°	2846.4	2858.4	2994.0	3280.3	3532.8	3662.7	3591.3	3476.5	3443.8	3725.0	2739.7
47.5°	2717.6	2730.8	2815.9	3128.2	3531.3	3923.6	3964.9	3746.3	3687.7	3940.2	2844.7
50°	2410.8	2438.3	2545.6	2863.5	3402.5	4043.6	4355.5	4067.6	3946.7	4149.8	2949.9
52.5°	1847.5	1889.9	2010.1	2428.6	3075.6	3984.3	4668.0	4457.4	4286.4	4366.8	3040.4
55°	1165.3	1196.9	1298.0	1715.1	2460.4	3675.1	4786.4	4879.0	4726.8	4572.2	3118.6
57.5°	633.7	647.7	685.5	947.0	1600.4	2991.9	4613.8	5118.8	5055.8	4746.6	3177.8
58°	567.0	576.5	600.1	820.7	1419.3	2805.0	4537.2	5119.7	5088.1	4772.2	3182.4
60°	420.6	415.8	394.9	468.3	790.0	1937.9	4074.1	4914.7	5007.5	4803.4	3160.0
62.5°	369.7	357.9	315.0	310.3	384.2	892.7	3117.3	4210.0	4429.0	4625.0	3024.1
65°	347.3	334.6	279.6	261.6	277.1	377.6	1836.2	3157.5	3432.1	4083.8	2676.2
67.5°	330.5	314.2	256.8	232.4	233.6	249.6	736.0	1988.7	2297.8	3100.6	2081.6
70°	314.4	296.7	237.6	209.5	202.8	197.4	292.7	995.5	1275.9	1958.6	1327.2
72.5°	297.2	279.8	220.7	191.3	178.6	160.3	191.1	407.2	568.7	926.6	602.0
75°	272.4	256.6	203.7	175.3	156.9	132.9	144.4	212.7	255.1	369.1	290.2
77.5°	241.6	228.7	184.8	162.1	139.1	107.8	111.0	147.5	163.6	211.2	172.5
80°	173.6	178.3	164.4	145.7	124.0	87.6	85.2	107.5	116.2	135.7	112.2
82.5°	122.0	124.5	136.1	119.0	102.4	68.9	62.8	75.7	80.9	89.2	60.5
85°	84.1	81.1	93.2	83.0	74.0	46.0	43.1	51.4	54.5	55.3	31.4
87.5°	50.6	50.6	54.0	44.5	39.9	23.9	23.3	29.3	31.4	29.9	17.2
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°	1618.7	1618.7	1618.7	1618.7	1618.7	1618.7	1618.7	1618.7	1618.7	1618.7	1618.7
2.5°	1623.1	1602.7	1559.4	1524.7	1480.8	1435.1	1409.6	1382.3	1363.6	1350.2	1371.7
5°	1635.5	1593.9	1504.2	1419.3	1325.4	1228.0	1153.9	1085.1	1037.1	1007.2	1035.3
7.5°	1654.9	1590.9	1448.2	1303.1	1134.6	972.2	827.0	736.0	683.0	656.8	673.2
10°	1677.2	1586.3	1382.6	1145.6	904.6	699.9	591.4	554.8	542.7	537.7	540.2
12.5°	1695.9	1576.5	1302.0	955.0	679.3	552.6	521.3	520.6	523.2	523.7	524.6
15°	1709.1	1562.2	1182.3	756.5	543.3	503.6	502.0	507.1	511.9	513.9	515.1
17.5°	1718.1	1532.7	1047.2	598.0	486.7	479.9	483.7	490.5	495.5	497.0	498.2
20°	1717.2	1489.3	886.2	498.6	456.0	456.0	462.8	468.0	468.3	466.6	467.5
22.5°	1708.2	1429.9	730.1	446.0	428.8	433.6	440.4	435.6	415.6	402.4	403.2
25°	1693.3	1359.0	596.4	412.3	403.5	412.1	410.0	373.3	344.6	331.7	331.7
27.5°	1680.2	1275.2	493.6	383.0	378.2	388.8	353.3	319.9	307.8	301.9	299.9
30°	1670.7	1184.9	425.0	355.0	354.4	346.7	306.5	297.2	295.4	290.4	288.6
32.5°	1673.1	1093.3	381.2	330.2	332.4	296.7	284.1	286.1	284.4	279.3	276.9
35°	1692.0	1006.5	352.3	307.8	301.9	268.1	270.8	274.6	274.1	266.8	264.6
37.5°	1725.9	924.0	333.5	289.3	263.5	253.7	258.3	264.0	262.6	257.8	255.9
40°	1761.3	846.6	318.0	274.6	240.7	243.9	247.9	251.0	252.6	254.0	252.9
42.5°	1796.2	765.6	299.0	259.7	231.4	234.7	236.4	239.6	247.4	252.9	252.6
45°	1816.7	689.5	279.6	238.5	223.9	225.8	224.7	231.0	240.4	249.4	249.6
47.5°	1839.6	630.5	264.0	218.9	216.6	218.1	214.7	221.0	229.5	240.4	241.6
50°	1867.5	595.1	251.6	203.5	206.9	206.9	206.0	211.8	223.9	236.4	238.8
52.5°	1899.0	588.3	241.4	192.2	197.2	196.9	197.6	206.3	219.5	231.9	233.9
55°	1937.6	607.0	230.1	184.0	187.7	188.9	191.7	201.4	212.7	226.7	227.6
57.5°	1982.3	644.9	221.3	177.3	179.0	182.7	187.3	196.3	208.3	223.9	224.7
58°	1989.7	652.9	219.8	176.7	177.3	181.6	186.8	195.4	207.5	224.3	225.2
60°	1990.0	679.5	216.6	174.2	170.8	178.0	183.7	192.2	206.0	226.5	228.3
62.5°	1919.5	679.3	214.3	170.5	163.9	172.7	179.3	189.5	204.6	231.4	235.3
65°	1690.3	617.2	203.5	164.7	158.5	168.2	175.6	187.3	208.6	252.6	255.1
67.5°	1322.0	505.9	183.1	156.7	151.3	163.6	173.4	187.0	212.9	257.5	259.2
70°	874.1	378.5	160.6	147.5	143.8	158.1	174.5	196.9	208.0	247.0	242.5
72.5°	453.6	265.7	142.7	136.1	135.1	153.3	191.1	195.7	203.1	232.4	226.7
75°	238.2	184.5	126.8	123.3	124.9	152.2	225.6	190.5	196.9	222.4	233.3
77.5°	145.7	148.8	113.4	111.8	114.9	148.7	225.2	184.0	187.7	204.6	216.6
80°	97.6	120.8	103.0	103.3	105.3	136.1	202.3	173.6	176.4	193.4	205.7
82.5°	61.8	71.4	93.6	98.5	95.8	112.2	171.8	158.1	162.1	221.3	233.9
85°	31.4	44.7	81.1	94.7	86.3	78.6	139.4	138.6	140.7	159.5	166.7
87.5°	14.4	24.7	63.4	82.6	65.1	49.0	101.2	102.8	110.9	113.4	113.4
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)