

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: P200577

Luminaire Tested: **GAP-AF-01-LED-U-AFL-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200577
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: GAP-AF-01-LED-U-AFL-8030-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5838 lumens
Efficiency: N/A
Efficacy: 87.1 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

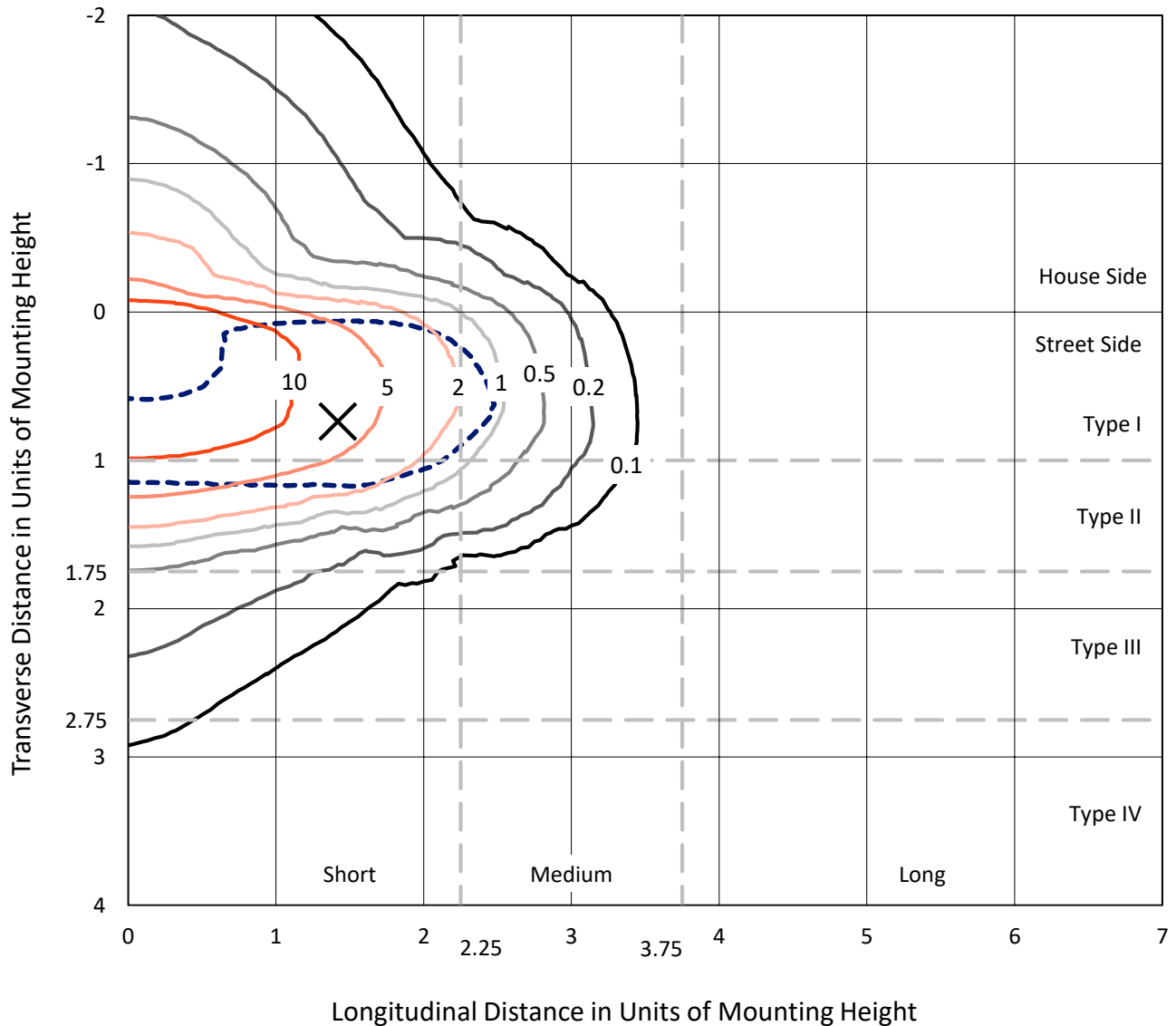


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

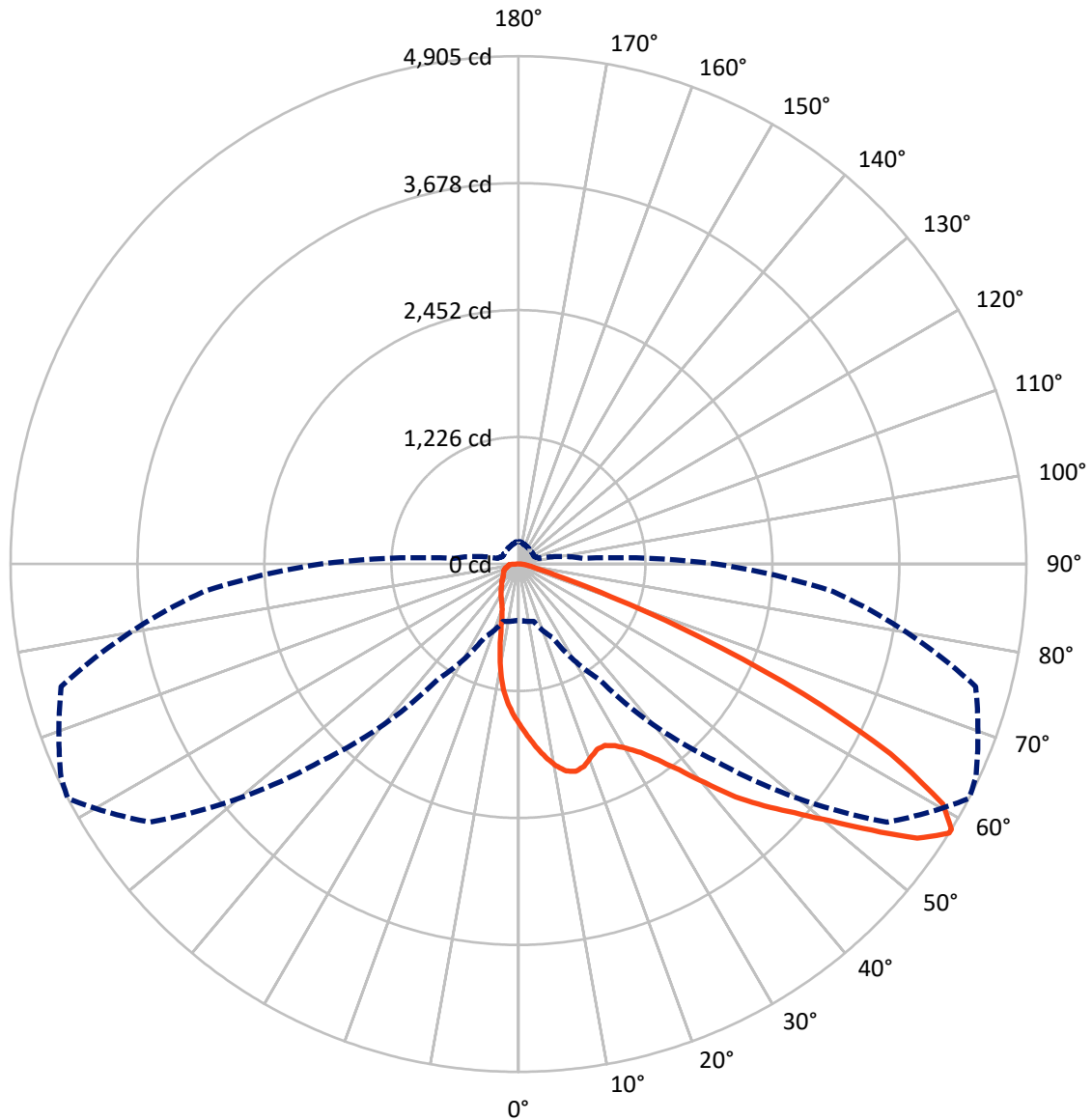


Based on 10 foot mounting height. Maximum calculated value = 18.9 fc
 Type II - Short - Full Cutoff

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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	890.3	0.0	890.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	4947.7	0.0	4947.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	5838.0	0.0	5838.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	2.4
10°-20°	354.5	6.1
20°-30°	573.1	9.8
30°-40°	909.8	15.6
40°-50°	1331.2	22.8
50°-60°	1392.3	23.8
60°-70°	822.6	14.1
70°-80°	231.7	4.0
80°-90°	84.1	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°	5838.0	100.0
0°-180°	5838.0	100.0

Coefficient of Utilization



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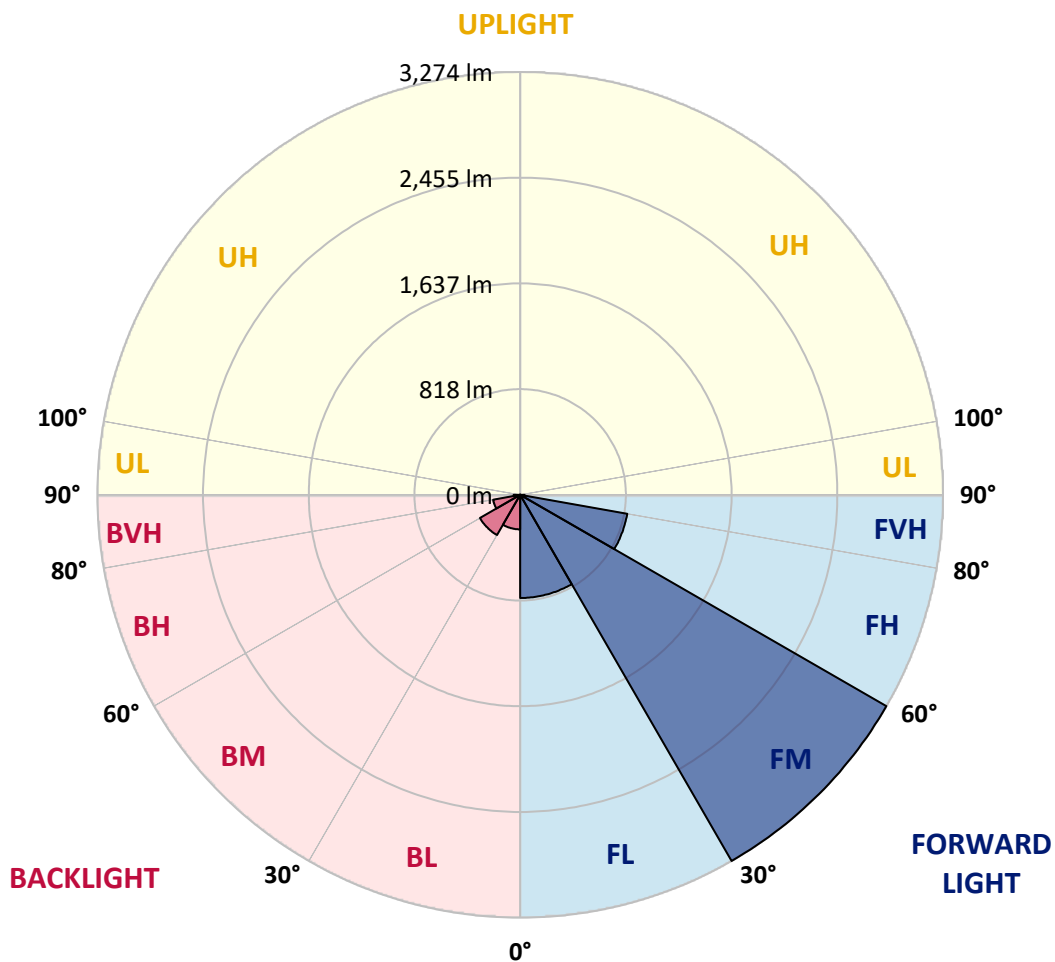
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	798.7	13.7			
FM	(30°-60°)	3273.9	56.1			
FH	(60°-80°)	841.9	14.4			G1/1800
FVH	(80°-90°)	33.2	0.6			G1/100
BL	(0°-30°)	267.6	4.6	B1/500		
BM	(30°-60°)	359.4	6.2	B1/1000		
BH	(60°-80°)	212.4	3.6	B1/500		G1/500
BVH	(80°-90°)	50.9	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°	1550.7	1550.7	1550.7	1550.7	1550.7	1550.7	1550.7	1550.7	1550.7	1550.7	1550.7
2.5°	1772.0	1757.8	1748.7	1740.7	1730.3	1708.0	1678.0	1659.1	1649.4	1616.7	1578.0
5°	1945.8	1933.1	1923.8	1913.1	1894.4	1859.5	1811.1	1772.6	1753.6	1688.2	1610.7
7.5°	1905.1	1910.3	1926.5	1954.9	1979.0	1974.4	1931.2	1882.3	1857.3	1766.3	1648.6
10°	1659.9	1669.0	1697.0	1763.2	1870.5	1980.4	2014.0	1980.1	1954.9	1843.5	1687.6
12.5°	1610.7	1610.4	1612.6	1630.2	1694.0	1848.7	2016.7	2050.8	2035.7	1917.2	1727.5
15°	1630.7	1631.3	1629.6	1637.1	1656.9	1718.2	1932.6	2078.0	2088.7	1991.4	1768.7
17.5°	1683.5	1682.2	1675.8	1675.8	1683.0	1706.9	1833.6	2052.7	2102.2	2057.1	1805.0
20°	1772.0	1765.7	1749.0	1733.6	1725.9	1738.8	1792.9	1994.4	2078.8	2114.6	1835.0
22.5°	1879.3	1874.3	1847.1	1814.1	1787.4	1787.2	1813.8	1943.6	2038.4	2168.7	1860.3
25°	2017.8	2009.8	1969.4	1916.6	1869.9	1852.0	1859.5	1941.1	2016.4	2227.6	1882.8
27.5°	2180.6	2166.0	2118.2	2042.0	1973.3	1937.3	1926.5	1985.9	2036.5	2300.4	1914.2
30°	2377.9	2361.2	2299.9	2200.6	2103.6	2044.5	2021.7	2065.4	2103.0	2389.2	1964.5
32.5°	2602.5	2578.3	2507.4	2398.0	2270.5	2180.3	2143.2	2170.4	2200.3	2496.1	2027.4
35°	2912.9	2884.0	2781.5	2630.6	2486.5	2362.5	2303.2	2323.0	2352.1	2655.6	2118.4
37.5°	3124.6	3111.7	3043.5	2901.6	2744.9	2602.3	2510.4	2522.0	2538.5	2854.9	2235.0
40°	3122.7	3127.9	3129.3	3130.6	3024.0	2887.3	2788.6	2776.6	2773.3	3073.7	2367.5
42.5°	2966.2	2987.7	3057.0	3197.4	3262.3	3199.6	3109.2	3074.3	3057.0	3331.6	2508.0
45°	2726.8	2738.3	2868.1	3142.5	3384.4	3508.9	3440.5	3330.5	3299.1	3568.6	2624.5
47.5°	2603.4	2616.0	2697.7	2996.8	3383.0	3758.8	3798.4	3588.9	3532.8	3774.7	2725.1
50°	2309.5	2335.9	2438.7	2743.3	3259.6	3873.7	4172.5	3896.8	3780.8	3975.4	2826.0
52.5°	1769.8	1810.5	1925.7	2326.5	2946.4	3816.8	4471.9	4270.1	4106.3	4183.2	2912.6
55°	1116.4	1146.6	1243.4	1643.1	2357.0	3520.7	4585.4	4674.0	4528.3	4380.1	2987.7
57.5°	607.0	620.5	656.8	907.2	1533.2	2866.2	4419.9	4903.8	4843.3	4547.2	3044.3
58°	543.2	552.3	574.8	786.2	1359.7	2687.2	4346.5	4904.6	4874.4	4571.7	3048.7
60°	403.0	398.3	378.3	448.6	756.8	1856.4	3902.8	4708.3	4797.1	4601.7	3027.3
62.5°	354.1	342.8	301.8	297.2	368.1	855.2	2986.3	4033.1	4242.9	4430.7	2897.0
65°	332.6	320.5	267.8	250.7	265.6	361.8	1759.1	3024.8	3287.9	3912.2	2563.8
67.5°	316.7	301.0	246.0	222.7	223.8	239.2	705.1	1905.1	2201.2	2970.4	1994.2
70°	301.3	284.3	227.6	200.7	194.4	189.1	280.4	953.6	1222.2	1876.2	1271.4
72.5°	284.8	268.0	211.4	183.4	171.0	153.7	183.1	390.1	544.9	887.7	576.8
75°	260.9	245.8	195.2	168.0	150.4	127.3	138.3	203.7	244.4	353.5	277.9
77.5°	231.5	219.1	177.0	155.3	133.3	103.4	106.4	141.3	156.7	202.3	165.2
80°	166.3	170.7	157.5	139.7	118.8	83.8	81.6	103.1	111.3	130.0	107.5
82.5°	116.8	119.3	130.3	114.1	98.1	66.0	60.2	72.6	77.5	85.5	58.0
85°	80.5	77.8	89.3	79.4	70.9	44.0	41.2	49.2	52.2	53.1	30.0
87.5°	48.4	48.4	51.7	42.6	38.2	22.8	22.3	28.0	30.0	28.6	16.5
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°	1550.7	1550.7	1550.7	1550.7	1550.7	1550.7	1550.7	1550.7	1550.7	1550.7	1550.7
2.5°	1554.9	1535.4	1493.8	1460.6	1418.5	1374.8	1350.3	1324.2	1306.4	1293.4	1314.1
5°	1566.7	1526.8	1441.1	1359.7	1269.8	1176.3	1105.4	1039.4	993.5	964.9	991.9
7.5°	1585.4	1524.1	1387.5	1248.3	1087.0	931.4	792.3	705.1	654.3	629.3	644.9
10°	1606.8	1519.7	1324.5	1097.4	866.5	670.5	566.6	531.4	519.8	515.2	517.4
12.5°	1624.7	1510.3	1247.2	914.9	650.7	529.5	499.5	498.7	501.2	501.7	502.5
15°	1637.3	1496.6	1132.6	724.7	520.4	482.5	480.8	485.8	490.4	492.4	493.5
17.5°	1645.9	1468.3	1003.1	572.9	466.2	459.6	463.5	469.8	474.8	476.1	477.2
20°	1645.0	1426.8	848.9	477.8	436.8	436.8	443.4	448.4	448.6	447.0	447.8
22.5°	1636.5	1369.9	699.4	427.2	410.7	415.4	422.0	417.3	398.1	385.4	386.2
25°	1622.2	1302.0	571.3	395.0	386.5	394.8	392.8	357.7	330.2	317.8	317.8
27.5°	1609.6	1221.7	472.8	367.0	362.3	372.5	338.4	306.5	295.0	289.2	287.3
30°	1600.5	1135.1	407.1	340.1	339.5	332.1	293.6	284.8	282.9	278.2	276.6
32.5°	1602.7	1047.4	365.1	316.4	318.3	284.3	272.2	274.1	272.4	267.5	265.3
35°	1620.8	964.1	337.6	295.0	289.2	256.8	259.5	263.1	262.5	255.7	253.5
37.5°	1653.3	885.2	319.4	277.1	252.4	243.0	247.4	252.9	251.5	246.9	245.2
40°	1687.4	811.0	304.6	263.1	230.6	233.7	237.5	240.5	241.9	243.3	242.2
42.5°	1720.6	733.4	286.5	248.8	221.6	224.9	226.5	229.5	237.0	242.2	241.9
45°	1740.4	660.6	267.8	228.4	214.4	216.4	215.3	221.3	230.4	238.9	239.2
47.5°	1762.4	604.0	252.9	209.8	207.6	208.9	205.6	211.7	219.9	230.4	231.5
50°	1789.1	570.2	241.1	194.9	198.2	198.2	197.4	202.9	214.4	226.5	228.7
52.5°	1819.3	563.6	231.2	184.2	188.9	188.6	189.4	197.7	210.3	222.1	224.0
55°	1856.2	581.4	220.5	176.2	179.8	180.9	183.6	193.0	203.7	217.2	218.0
57.5°	1899.1	617.7	212.0	169.9	171.5	175.1	179.5	188.0	199.6	214.4	215.3
58°	1906.2	625.4	210.6	169.3	169.9	174.0	179.0	187.2	198.8	215.0	215.8
60°	1906.5	651.0	207.6	166.9	163.6	170.4	175.9	184.2	197.4	216.9	218.8
62.5°	1838.8	650.7	205.4	163.3	157.0	165.5	171.8	181.4	196.0	221.6	225.4
65°	1619.2	591.3	194.9	157.8	151.7	161.1	168.2	179.5	199.9	241.9	244.4
67.5°	1266.5	484.7	175.4	150.1	144.9	156.7	166.0	179.2	204.0	246.6	248.2
70°	837.4	362.6	153.9	141.3	137.7	151.5	167.1	188.6	199.3	236.7	232.3
72.5°	434.6	254.6	136.6	130.3	129.5	146.8	183.1	187.5	194.6	222.7	217.2
75°	228.2	176.8	121.5	118.2	119.6	145.7	216.1	182.5	188.6	213.1	223.5
77.5°	139.7	142.7	108.6	107.2	110.0	142.4	215.8	176.2	179.8	196.0	207.6
80°	93.5	115.7	98.7	99.0	100.9	130.3	193.8	166.3	169.1	185.3	197.1
82.5°	59.1	68.5	89.6	94.3	91.8	107.5	164.7	151.5	155.3	212.0	224.0
85°	30.0	42.9	77.8	90.7	82.7	75.3	133.6	132.8	134.7	152.8	159.7
87.5°	13.7	23.6	60.8	79.2	62.4	47.0	97.0	98.4	106.1	108.6	108.6
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)