

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: P200314

Luminaire Tested: **GAP-AF-02-LED-U-SL4-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-02-LED-U-SL4-7050-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12949 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 129
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

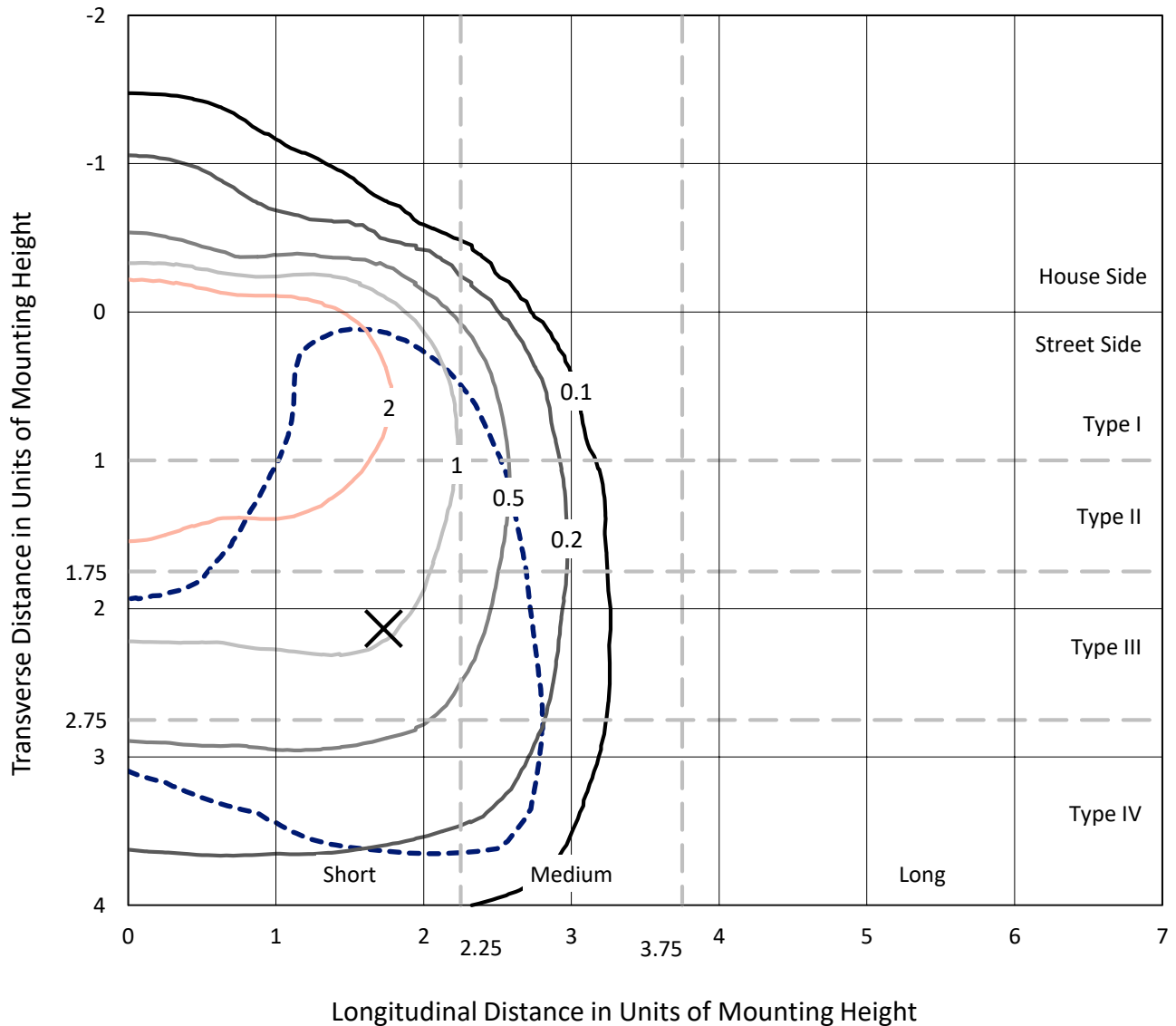


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

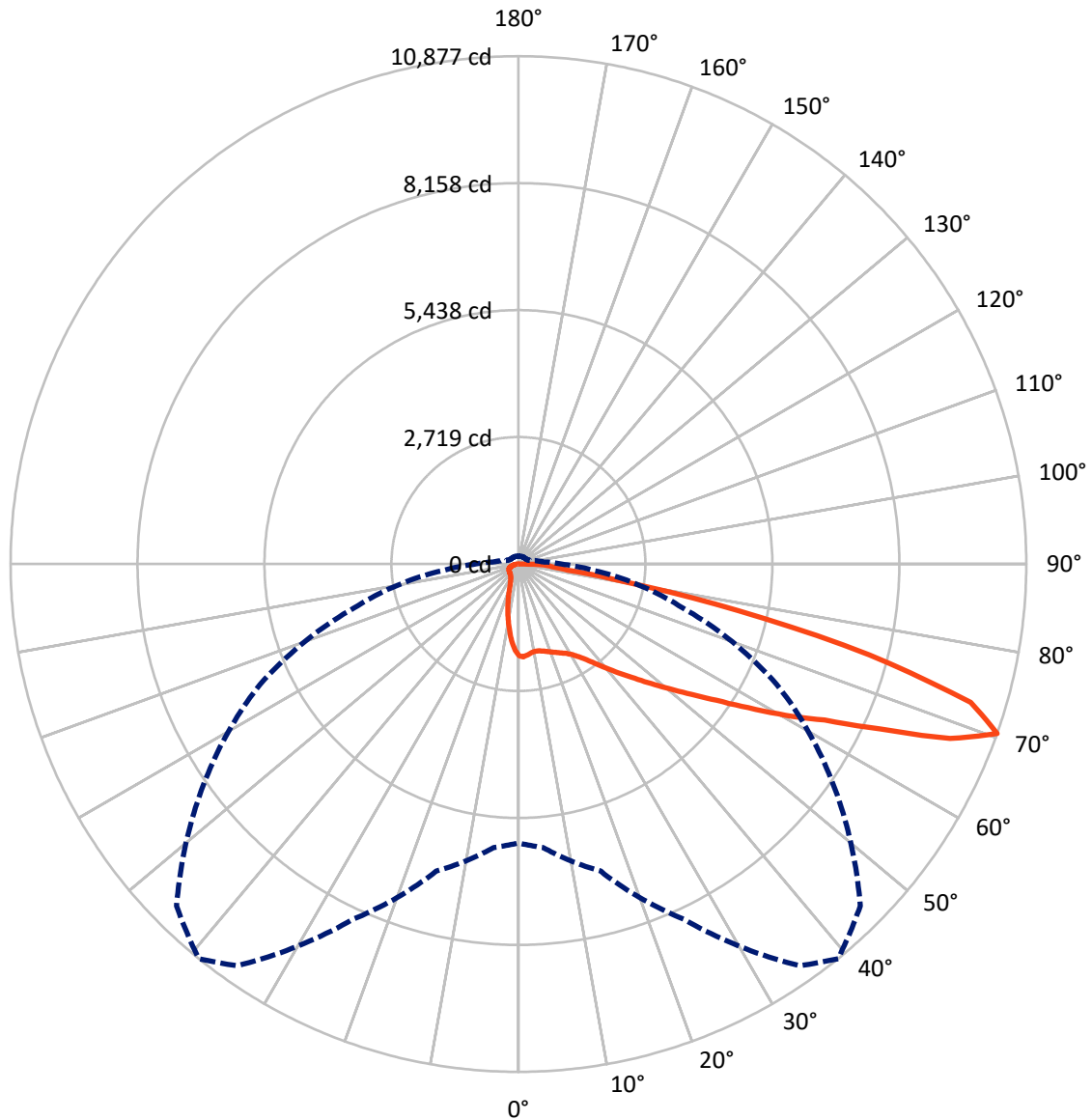


Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1472.7	0.0	1472.7
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	11476.3	0.0	11476.3
	% Fixture	88.6	0.0	88.6
Total	Lumens	12949.0	0.0	12949.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	1.3
10°-20°	421.7	3.3
20°-30°	656.6	5.1
30°-40°	1022.9	7.9
40°-50°	1717.2	13.3
50°-60°	2728.0	21.1
60°-70°	3638.8	28.1
70°-80°	2197.4	17.0
80°-90°	397.7	3.1
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°	12949.0	100.0
0°-180°	12949.0	100.0

Coefficient of Utilization



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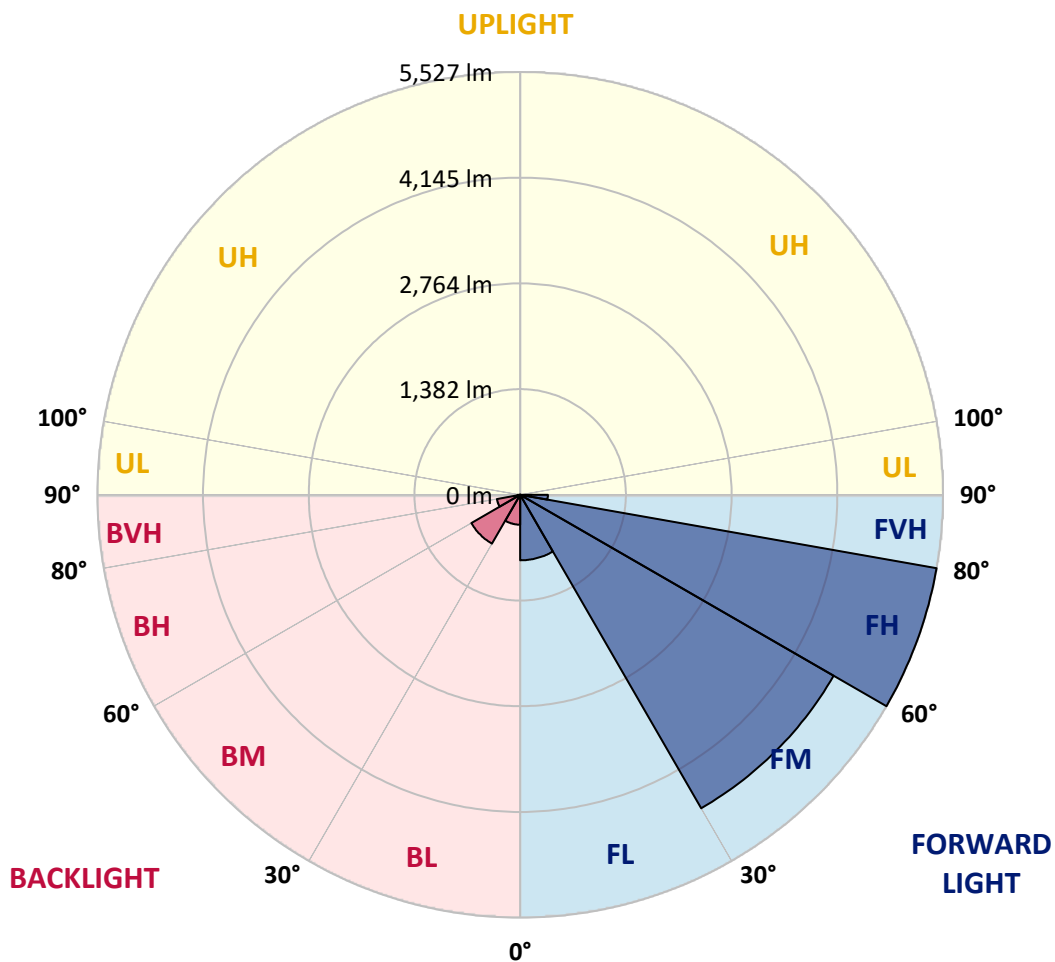
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	856.3	6.6			
FM	(30°-60°)	4731.1	36.5			
FH	(60°-80°)	5527.0	42.7			G3/7500
FVH	(80°-90°)	361.9	2.8			G3/500
BL	(0°-30°)	390.7	3.0	B1/500		
BM	(30°-60°)	737.0	5.7	B1/1000		
BH	(60°-80°)	309.2	2.4	B1/500		G1/500
BVH	(80°-90°)	35.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1965.9	1965.9	1965.9	1965.9	1965.9	1965.9	1965.9	1965.9	1965.9	1965.9	1965.9
2.5°	2004.0	2003.4	1998.1	1994.2	1990.9	1989.6	1992.2	1982.3	1973.8	1963.2	1952.0
5°	1988.9	1988.2	1979.7	1971.8	1963.9	1961.3	1960.6	1942.8	1932.3	1916.5	1895.4
7.5°	1972.4	1969.2	1958.0	1944.8	1931.0	1924.4	1917.8	1894.8	1882.9	1867.1	1842.7
10°	1955.3	1951.4	1940.8	1927.7	1914.5	1904.6	1893.4	1871.1	1858.5	1846.7	1818.4
12.5°	1937.5	1934.3	1931.6	1925.7	1916.5	1907.9	1899.4	1880.3	1867.1	1853.3	1820.4
15°	1934.9	1933.6	1939.5	1943.5	1938.2	1932.9	1923.7	1907.3	1893.4	1879.6	1836.8
17.5°	1956.0	1955.3	1970.5	1981.0	1978.4	1969.2	1956.6	1938.2	1927.0	1915.2	1861.8
20°	2002.1	2005.4	2023.8	2037.6	2024.5	2011.3	1990.9	1965.2	1959.3	1954.0	1887.5
22.5°	2089.0	2092.3	2105.4	2110.7	2076.5	2057.4	2029.1	1996.1	1992.2	1996.1	1918.5
25°	2224.6	2221.3	2219.3	2199.6	2137.0	2107.4	2071.2	2037.0	2038.9	2056.7	1961.9
27.5°	2404.3	2386.6	2358.9	2299.6	2200.2	2167.3	2123.2	2091.6	2104.1	2138.3	2027.1
30°	2590.6	2570.9	2507.0	2410.3	2283.2	2247.0	2197.6	2162.0	2195.0	2249.0	2114.0
32.5°	2763.1	2760.5	2667.0	2542.6	2397.7	2366.1	2316.8	2276.6	2329.9	2412.2	2244.3
35°	2951.4	2957.3	2845.4	2696.0	2552.5	2519.5	2484.0	2453.7	2524.8	2638.0	2433.3
37.5°	3152.9	3164.7	3032.4	2863.9	2728.9	2715.1	2694.0	2680.8	2790.8	2947.5	2697.3
40°	3422.1	3410.3	3226.6	3053.5	2945.5	2944.8	2938.3	2954.1	3137.1	3351.7	3036.4
42.5°	3710.5	3675.6	3432.7	3256.9	3183.2	3205.5	3218.7	3283.2	3553.8	3842.8	3449.8
45°	4021.3	3942.9	3646.6	3472.2	3447.2	3494.6	3539.3	3679.6	4044.3	4401.8	3902.8
47.5°	4269.5	4193.7	3867.9	3698.0	3752.6	3824.4	3910.7	4132.5	4593.4	4979.2	4349.8
50°	4465.0	4415.6	4091.0	3961.3	4089.1	4199.7	4340.6	4645.4	5164.8	5541.4	4763.9
52.5°	4654.6	4617.7	4316.2	4231.3	4484.1	4636.8	4828.4	5195.8	5750.8	6094.4	5112.2
55°	4825.8	4799.4	4558.5	4567.7	4948.9	5147.7	5388.7	5822.5	6389.4	6587.5	5407.1
57.5°	5018.7	4985.1	4835.0	4989.7	5546.0	5804.1	6117.5	6527.0	6988.5	7026.0	5631.6
60°	5212.9	5183.9	5141.8	5476.9	6304.4	6575.7	6872.6	7209.7	7596.1	7366.4	5618.4
62.5°	5381.4	5384.7	5459.1	5988.4	7047.1	7361.1	7723.2	8056.3	8145.9	7425.6	5203.0
65°	5667.2	5719.2	5941.0	6712.6	8092.5	8512.6	8957.0	8903.6	8298.0	6871.9	4312.2
67.5°	6006.9	6098.4	6548.0	7677.8	9413.9	9971.5	10143.3	9095.2	7689.0	5586.2	3073.9
70°	5972.6	6098.4	6810.1	8397.4	10502.8	10876.7	10355.3	8231.5	6105.6	3649.3	1632.7
72.5°	5303.7	5483.5	6276.1	8067.5	10159.8	10126.9	8989.9	6136.6	3627.6	1465.5	637.9
75°	4042.3	4224.0	4906.1	6373.6	8030.0	7753.5	6378.8	3389.9	1376.6	582.0	402.3
77.5°	2325.3	2466.2	2992.9	3908.7	5094.4	4810.6	3550.5	1507.6	670.2	405.5	314.0
80°	1298.3	1376.6	1696.6	1983.0	2496.5	2288.5	1588.6	936.8	500.4	294.3	242.3
82.5°	1026.4	1096.2	1372.0	1250.9	1140.3	1052.1	912.5	834.1	399.6	185.7	144.8
85°	896.7	963.2	1161.3	984.9	778.8	714.3	741.3	821.0	310.7	111.9	123.8
87.5°	830.8	919.7	1034.9	759.1	606.3	537.2	684.0	900.0	100.1	69.8	50.0
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°	1965.9	1965.9	1965.9	1965.9	1965.9	1965.9	1965.9	1965.9	1965.9	1965.9	1965.9
2.5°	1942.2	1931.6	1914.5	1899.4	1875.7	1863.2	1849.3	1839.5	1831.6	1825.0	1835.5
5°	1882.2	1862.5	1826.3	1787.4	1741.4	1705.1	1674.9	1646.6	1626.8	1613.6	1622.9
7.5°	1825.6	1793.4	1736.8	1666.3	1587.3	1520.2	1464.8	1416.1	1382.6	1360.8	1369.4
10°	1793.4	1753.2	1665.6	1555.0	1438.5	1333.8	1246.9	1171.9	1119.9	1090.2	1094.9
12.5°	1785.5	1733.5	1612.3	1460.2	1300.9	1155.4	1033.0	928.9	855.9	817.7	819.0
15°	1791.4	1724.9	1562.3	1369.4	1167.9	984.2	831.5	705.1	620.2	576.7	576.1
17.5°	1801.3	1718.3	1509.6	1271.3	1033.0	819.7	649.1	525.4	450.3	415.4	412.8
20°	1811.8	1707.8	1450.4	1165.3	892.7	666.9	508.3	411.5	364.1	345.0	343.7
22.5°	1826.9	1698.6	1389.1	1053.4	755.1	543.1	418.1	352.9	327.9	318.0	316.7
25°	1851.3	1694.0	1324.0	936.8	631.4	454.3	364.1	323.9	309.4	302.8	302.2
27.5°	1892.1	1700.5	1262.7	823.6	530.6	394.4	333.8	309.4	298.9	293.0	292.3
30°	1944.8	1720.9	1198.2	716.3	452.3	353.5	315.4	299.6	291.0	285.1	285.1
32.5°	2032.4	1755.2	1130.4	623.5	396.3	325.2	301.5	291.0	283.8	279.1	278.5
35°	2161.4	1819.7	1067.2	546.4	356.2	304.8	289.7	281.8	276.5	273.9	273.9
37.5°	2349.0	1921.7	1011.2	491.1	331.8	291.0	278.5	272.6	269.3	269.3	269.3
40°	2601.2	2062.6	965.8	454.3	318.0	281.1	269.9	265.3	263.3	264.0	264.0
42.5°	2912.6	2245.7	935.5	428.6	311.4	275.2	264.0	260.1	258.1	257.4	258.1
45°	3267.4	2453.7	932.2	409.5	304.8	271.2	260.1	256.1	252.2	249.5	249.5
47.5°	3612.4	2665.0	959.2	402.9	297.6	266.6	256.8	252.8	246.9	241.0	241.0
50°	3917.2	2844.8	995.4	405.5	294.9	260.1	251.5	249.5	240.3	233.7	233.1
52.5°	4159.5	2983.0	1025.1	413.4	297.6	255.4	244.9	245.6	235.7	228.5	227.8
55°	4353.7	3073.9	1017.2	421.3	303.5	252.8	239.0	240.3	232.4	225.2	225.2
57.5°	4438.7	3040.3	929.6	414.8	308.1	253.5	234.4	239.6	233.1	226.5	226.5
60°	4256.3	2742.1	765.7	385.8	302.2	251.5	232.4	242.3	241.6	235.0	234.4
62.5°	3704.6	2208.1	593.8	343.0	281.8	241.6	227.1	241.6	248.9	246.9	246.2
65°	2855.3	1572.8	453.6	296.9	254.1	225.2	213.3	226.5	236.4	239.0	238.3
67.5°	1853.3	963.8	349.6	253.5	223.2	206.1	195.5	201.5	203.4	203.4	202.1
70°	911.2	518.8	278.5	213.3	191.6	185.7	179.7	176.4	173.1	170.5	170.5
72.5°	449.7	339.1	229.1	180.4	165.2	162.6	161.3	157.3	154.7	151.4	150.1
75°	332.5	275.9	194.9	152.1	142.2	139.6	142.2	138.9	138.3	135.6	134.3
77.5°	273.2	235.0	167.9	130.4	121.8	117.2	121.1	121.8	122.5	118.5	117.2
80°	221.9	198.8	140.2	108.0	100.1	96.8	99.4	104.7	106.0	100.1	97.4
82.5°	160.0	162.6	113.2	84.3	77.7	75.1	80.3	86.9	88.2	79.7	77.7
85°	134.3	135.6	86.9	59.9	53.3	49.4	57.9	64.5	69.1	60.6	58.6
87.5°	56.0	79.7	50.0	33.6	29.6	25.7	30.9	34.2	41.5	38.2	37.5
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)