

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: P192719

Luminaire Tested: **GAN-AF-01-LED-U-AFL-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192719
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-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 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: 6783.9 lumens
Efficiency: N/A
Efficacy: 101.3 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



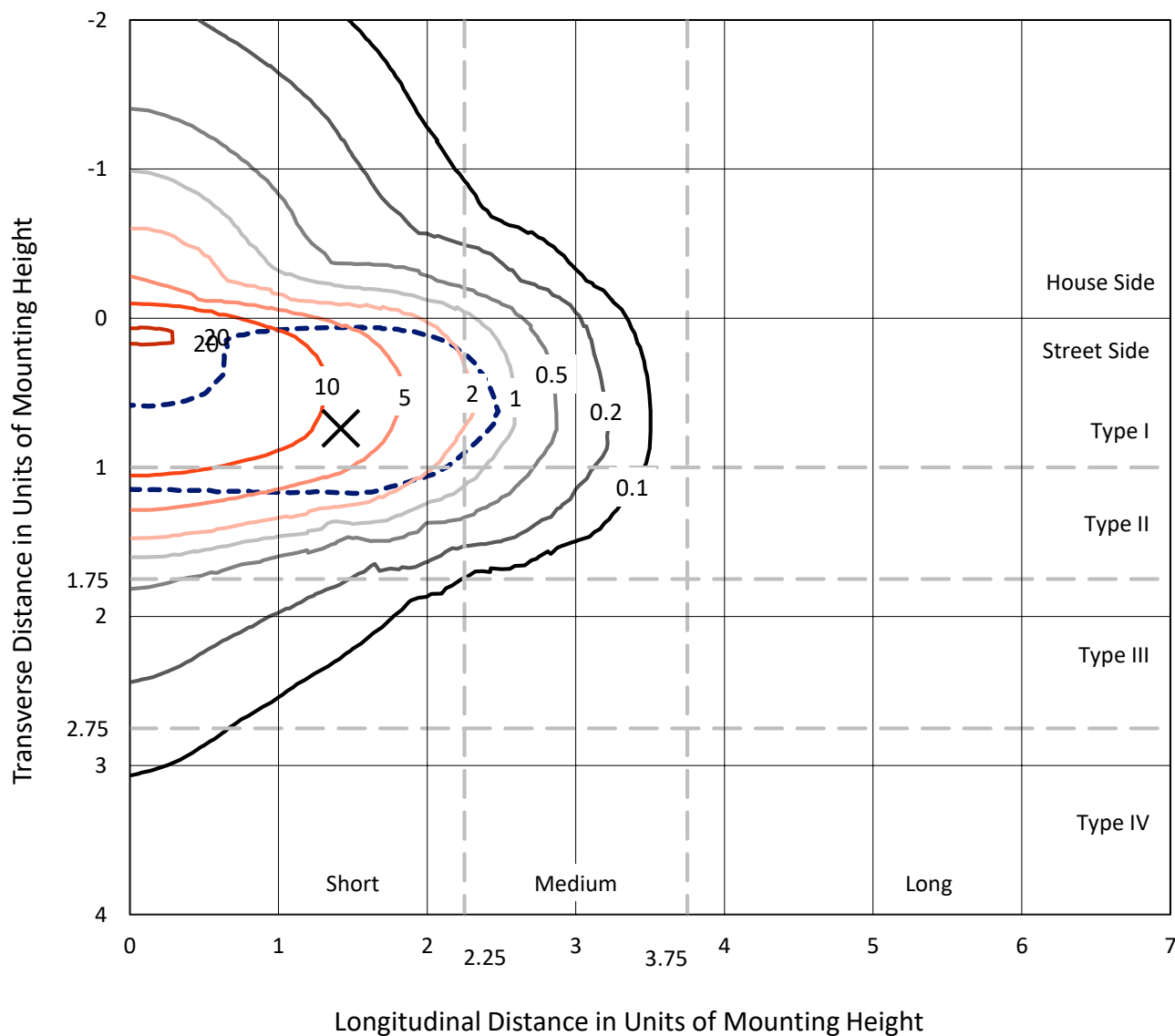
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

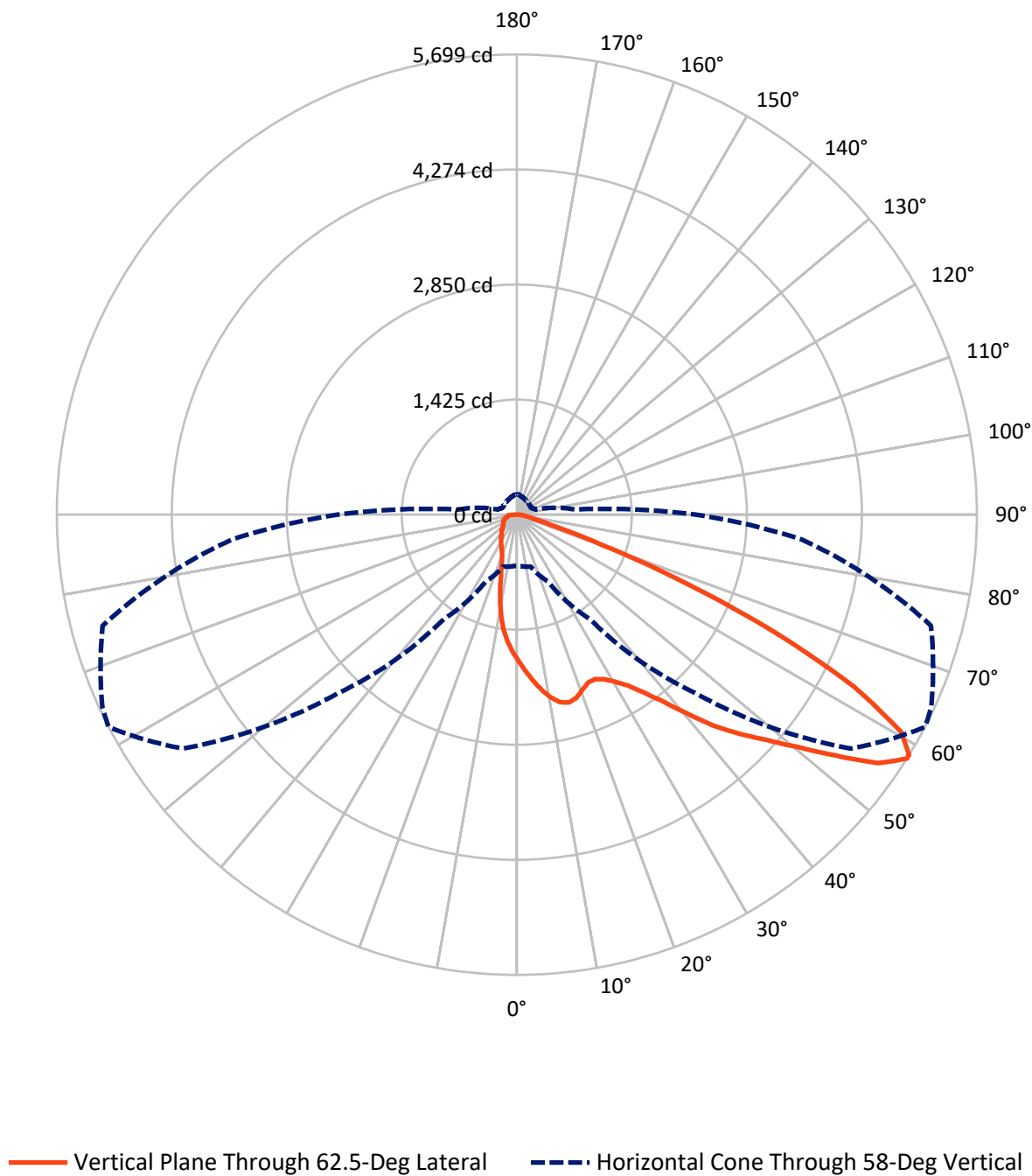


Based on 10 foot mounting height. Maximum calculated value = 22 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1034.6	0.0	1034.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	5749.3	0.0	5749.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	6783.9	0.0	6783.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	2.4
10°-20°	412.0	6.1
20°-30°	665.9	9.8
30°-40°	1057.2	15.6
40°-50°	1546.9	22.8
50°-60°	1617.9	23.8
60°-70°	955.9	14.1
70°-80°	269.3	4.0
80°-90°	97.8	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°	6783.9	100.0
0°-180°	6783.9	100.0

Coefficient of Utilization



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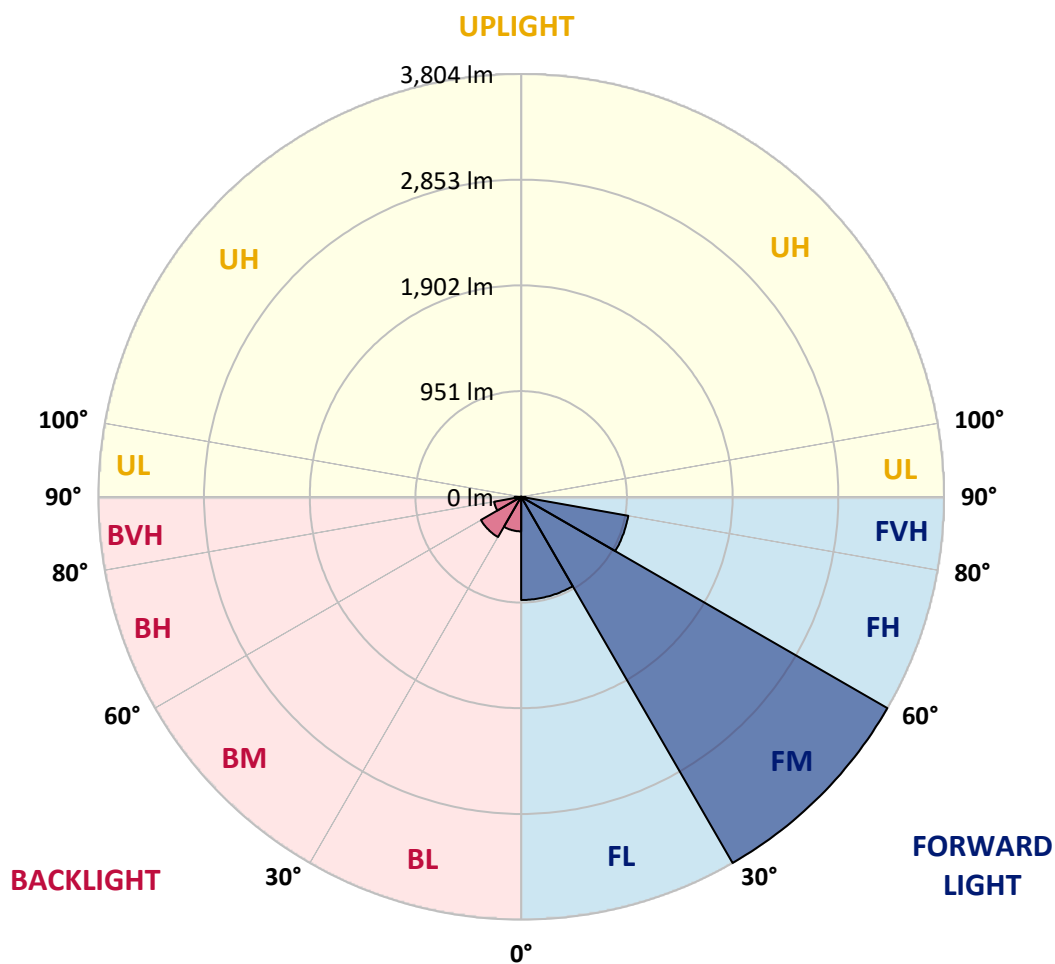
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	928.1	13.7			
FM	(30°-60°)	3804.4	56.1			
FH	(60°-80°)	978.3	14.4			G1/1800
FVH	(80°-90°)	38.6	0.6			G1/100
BL	(0°-30°)	310.9	4.6	B1/500		
BM	(30°-60°)	417.6	6.2	B1/1000		
BH	(60°-80°)	246.9	3.6	B1/500		G1/500
BVH	(80°-90°)	59.2	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°	1802.0	1802.0	1802.0	1802.0	1802.0	1802.0	1802.0	1802.0	1802.0	1802.0	1802.0
2.5°	2059.2	2042.6	2032.0	2022.7	2010.6	1984.7	1950.0	1927.9	1916.7	1878.7	1833.6
5°	2261.0	2246.4	2235.5	2223.0	2201.3	2160.7	2104.6	2059.7	2037.8	1961.7	1871.6
7.5°	2213.8	2219.8	2238.7	2271.6	2299.7	2294.2	2244.0	2187.3	2158.2	2052.4	1915.8
10°	1928.9	1939.4	1971.9	2048.9	2173.5	2301.3	2340.3	2301.0	2271.6	2142.2	1961.1
12.5°	1871.6	1871.3	1873.9	1894.3	1968.5	2148.2	2343.5	2383.1	2365.5	2227.8	2007.4
15°	1895.0	1895.6	1893.7	1902.3	1925.3	1996.6	2245.8	2414.7	2427.2	2314.1	2055.2
17.5°	1956.3	1954.7	1947.3	1947.3	1955.6	1983.5	2130.7	2385.3	2442.8	2390.5	2097.4
20°	2059.2	2051.8	2032.3	2014.4	2005.5	2020.5	2083.5	2317.6	2415.6	2457.2	2132.3
22.5°	2183.8	2178.0	2146.4	2108.0	2077.0	2076.7	2107.7	2258.5	2368.7	2520.2	2161.7
25°	2344.7	2335.5	2288.6	2227.1	2172.8	2152.1	2160.7	2255.6	2343.2	2588.5	2187.9
27.5°	2533.8	2516.9	2461.4	2372.9	2293.1	2251.2	2238.7	2307.7	2366.4	2673.1	2224.3
30°	2763.2	2743.7	2672.5	2557.2	2444.4	2375.8	2349.2	2400.0	2443.8	2776.3	2282.8
32.5°	3024.2	2996.1	2913.7	2786.5	2638.3	2533.5	2490.4	2522.0	2556.8	2900.7	2355.9
35°	3384.9	3351.3	3232.2	3056.7	2889.4	2745.3	2676.3	2699.4	2733.2	3085.9	2461.7
37.5°	3630.8	3615.8	3536.6	3371.7	3189.8	3023.9	2917.2	2930.7	2949.8	3317.4	2597.1
40°	3628.6	3634.7	3636.2	3637.9	3513.9	3355.2	3240.5	3226.4	3222.6	3571.8	2751.0
42.5°	3446.8	3471.7	3552.2	3715.5	3790.9	3718.1	3612.9	3572.3	3552.2	3871.4	2914.3
45°	3168.6	3182.0	3332.9	3651.7	3932.7	4077.4	3997.9	3870.1	3833.7	4146.7	3049.8
47.5°	3025.2	3039.9	3134.7	3482.3	3931.1	4367.8	4413.8	4170.4	4105.2	4386.3	3166.7
50°	2683.7	2714.3	2833.8	3187.7	3787.7	4501.4	4848.6	4528.1	4393.5	4619.6	3283.9
52.5°	2056.6	2103.9	2237.7	2703.5	3423.8	4435.3	5196.5	4962.0	4771.6	4861.1	3384.6
55°	1297.2	1332.4	1444.9	1909.3	2738.9	4091.2	5328.3	5431.3	5261.9	5089.8	3471.7
57.5°	705.4	721.0	763.1	1054.2	1781.6	3330.6	5136.1	5698.3	5628.1	5284.0	3537.6
58°	631.2	641.8	668.0	913.6	1580.0	3122.6	5050.8	5699.3	5664.1	5312.4	3542.7
60°	468.2	462.9	439.6	521.3	879.4	2157.3	4535.3	5471.1	5574.4	5347.2	3517.7
62.5°	411.5	398.4	350.7	345.4	427.7	993.8	3470.2	4686.6	4930.4	5148.6	3366.4
65°	386.6	372.5	311.2	291.2	308.5	420.4	2044.1	3514.9	3820.6	4546.1	2979.2
67.5°	367.9	349.8	285.9	258.7	260.0	277.9	819.3	2213.8	2557.9	3451.6	2317.3
70°	350.0	330.3	264.5	233.2	225.8	219.8	325.8	1108.2	1420.3	2180.3	1477.4
72.5°	330.9	311.5	245.7	213.0	198.8	178.5	212.7	453.3	633.1	1031.5	670.2
75°	303.2	285.6	226.8	195.1	174.7	147.9	160.7	236.8	284.0	410.9	323.0
77.5°	269.0	254.6	205.7	180.5	154.9	120.0	123.6	164.2	182.1	235.1	192.0
80°	193.3	198.5	183.0	162.2	138.0	97.5	94.8	119.7	129.4	151.1	124.9
82.5°	135.8	138.6	151.5	132.5	114.0	76.7	69.9	84.3	90.1	99.3	67.4
85°	93.6	90.3	103.8	92.4	82.4	51.2	48.0	57.2	60.7	61.6	34.9
87.5°	56.3	56.3	60.1	49.5	44.4	26.6	25.9	32.6	34.9	33.3	19.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1802.0	1802.0	1802.0	1802.0	1802.0	1802.0	1802.0	1802.0	1802.0	1802.0	1802.0
2.5°	1806.8	1784.1	1735.9	1697.3	1648.4	1597.6	1569.2	1538.8	1518.0	1503.0	1527.0
5°	1820.6	1774.3	1674.5	1580.0	1475.5	1367.0	1284.5	1207.9	1154.5	1121.2	1152.5
7.5°	1842.2	1771.0	1612.2	1450.6	1263.1	1082.3	920.6	819.3	760.3	731.2	749.4
10°	1867.1	1765.9	1539.1	1275.3	1007.0	779.1	658.4	617.6	604.1	598.6	601.3
12.5°	1887.9	1755.0	1449.4	1063.1	756.2	615.2	580.3	579.5	582.4	583.0	584.0
15°	1902.6	1739.1	1316.1	842.1	604.8	560.6	558.8	564.5	569.9	572.1	573.4
17.5°	1912.6	1706.2	1165.7	665.7	541.8	534.2	538.5	546.0	551.6	553.3	554.6
20°	1911.6	1657.9	986.5	555.1	507.6	507.6	515.2	521.0	521.3	519.4	520.4
22.5°	1901.6	1591.8	812.7	496.5	477.3	482.7	490.3	484.9	462.6	447.9	448.8
25°	1885.0	1512.9	663.9	459.0	449.2	458.8	456.4	415.6	383.6	369.3	369.3
27.5°	1870.4	1419.6	549.5	426.4	421.0	432.8	393.3	356.1	342.7	336.1	333.8
30°	1859.8	1319.0	473.1	395.2	394.5	385.9	341.2	330.9	328.8	323.3	321.3
32.5°	1862.5	1217.1	424.3	367.6	370.0	330.3	316.3	318.5	316.6	310.9	308.2
35°	1883.5	1120.4	392.2	342.7	336.1	298.4	301.5	305.7	305.1	297.0	294.6
37.5°	1921.3	1028.6	371.2	322.0	293.3	282.4	287.5	293.9	292.3	287.0	284.9
40°	1960.7	942.4	354.0	305.7	268.0	271.5	276.0	279.4	281.2	282.8	281.5
42.5°	1999.5	852.3	332.9	289.1	257.6	261.3	263.2	266.7	275.4	281.5	281.2
45°	2022.4	767.6	311.2	265.5	249.2	251.4	250.1	257.2	267.6	277.6	277.9
47.5°	2047.9	701.9	293.9	243.7	241.1	242.8	239.0	246.0	255.5	267.6	269.0
50°	2078.9	662.5	280.1	226.5	230.3	230.3	229.3	235.8	249.2	263.2	265.8
52.5°	2114.0	654.9	268.7	214.0	219.5	219.2	220.0	229.7	244.4	258.1	260.4
55°	2156.9	675.7	256.2	204.8	208.9	210.3	213.4	224.2	236.8	252.4	253.4
57.5°	2206.7	717.9	246.3	197.4	199.3	203.4	208.5	218.5	231.9	249.2	250.1
58°	2215.0	726.8	244.7	196.7	197.4	202.2	207.9	217.5	231.0	249.7	250.7
60°	2215.3	756.4	241.1	193.9	190.1	198.1	204.5	214.0	229.3	252.1	254.2
62.5°	2136.8	756.2	238.6	189.8	182.4	192.3	199.6	210.9	227.8	257.6	261.9
65°	1881.6	687.1	226.5	183.3	176.4	187.2	195.5	208.5	232.2	281.2	284.0
67.5°	1471.7	563.2	203.8	174.4	168.4	182.1	193.0	208.2	237.0	286.6	288.5
70°	973.1	421.3	178.8	164.2	160.1	176.0	194.3	219.2	231.6	275.0	270.0
72.5°	505.0	295.8	158.8	151.5	150.4	170.6	212.7	217.9	226.1	258.7	252.4
75°	265.2	205.4	141.2	137.3	139.0	169.4	251.1	212.1	219.2	247.6	259.7
77.5°	162.2	165.7	126.2	124.5	127.9	165.5	250.7	204.8	208.9	227.8	241.1
80°	108.6	134.5	114.7	115.0	117.2	151.5	225.2	193.3	196.4	215.3	229.0
82.5°	68.8	79.5	104.2	109.6	106.7	124.9	191.3	176.0	180.5	246.3	260.4
85°	34.9	49.8	90.3	105.4	96.1	87.5	155.2	154.3	156.6	177.6	185.6
87.5°	16.0	27.5	70.6	92.0	72.5	54.6	112.7	114.4	123.4	126.2	126.2
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)