

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: P480808

Luminaire Tested: **IFLD-S-SA3A-730-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480808
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-730-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

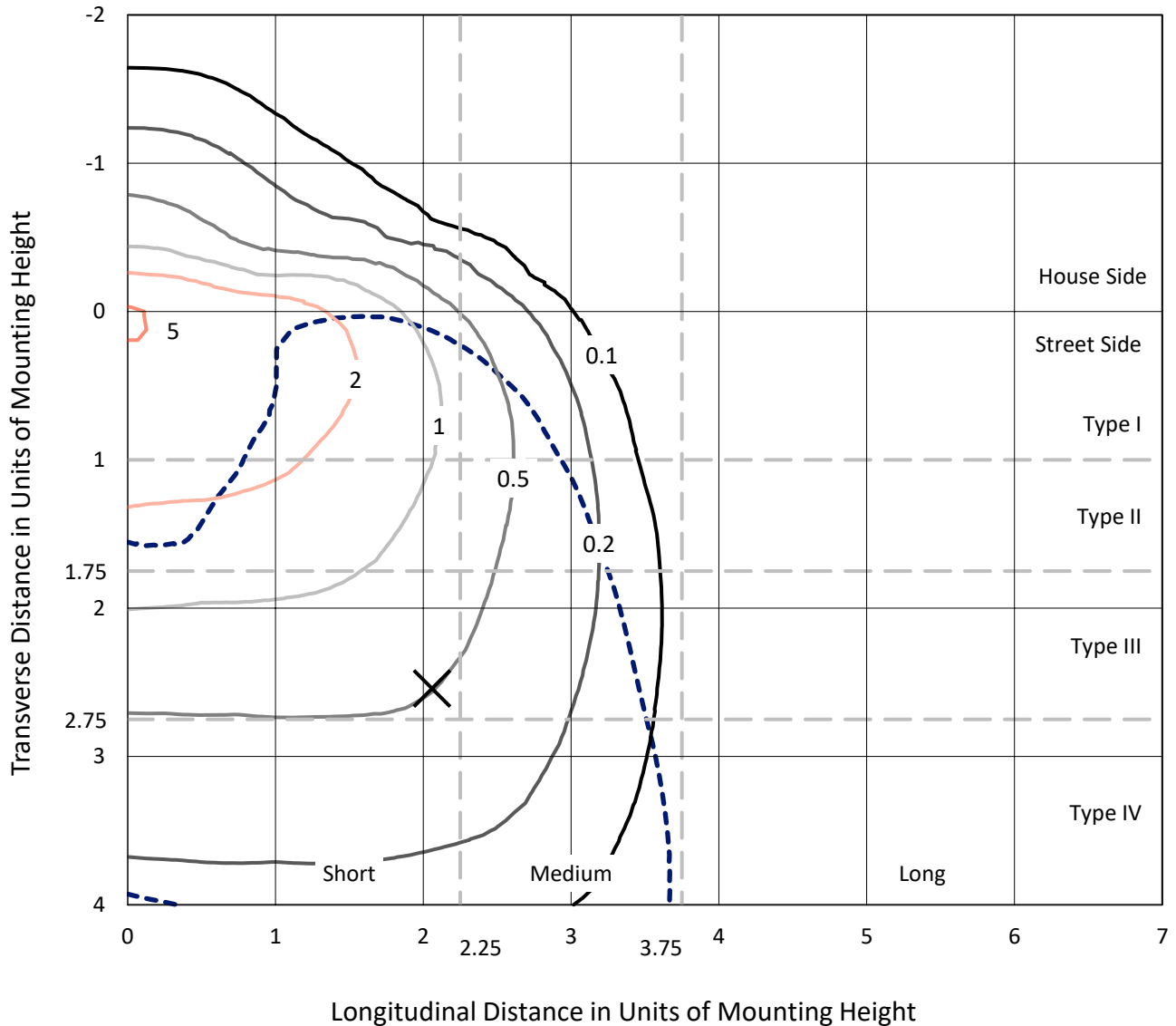
Lumens per Lamp: N/A
Luminaire Lumens: 12118.6 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 94.8
Input Voltage (V): 120
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: 24 FT

REPORT NUMBER: P480808
 CATALOG NUMBER: IFLD-S-SA3A-730-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

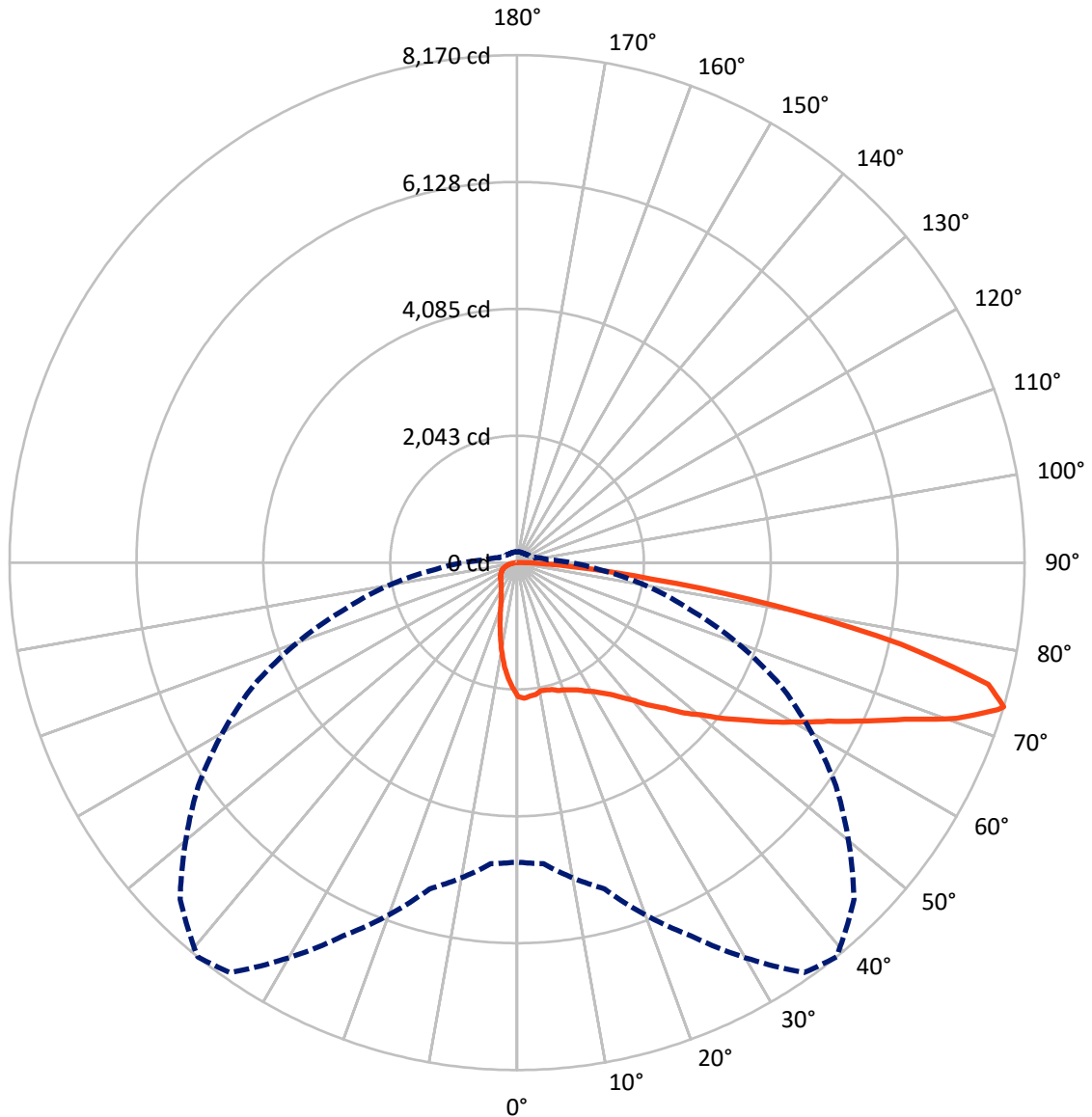
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P480808
CATALOG NUMBER: IFLD-S-SA3A-730-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P480808
 CATALOG NUMBER: IFLD-S-SA3A-730-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1703.5	0.0	1703.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	10415.0	0.0	10415.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	12118.6	0.0	12118.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.3	1.5
10°-20°	476.0	3.9
20°-30°	727.4	6.0
30°-40°	1060.6	8.8
40°-50°	1602.7	13.2
50°-60°	2320.8	19.2
60°-70°	2948.7	24.3
70°-80°	2390.4	19.7
80°-90°	404.4	3.3
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°	12118.6	100.0
0°-180°	12118.6	100.0

Coefficient of Utilization



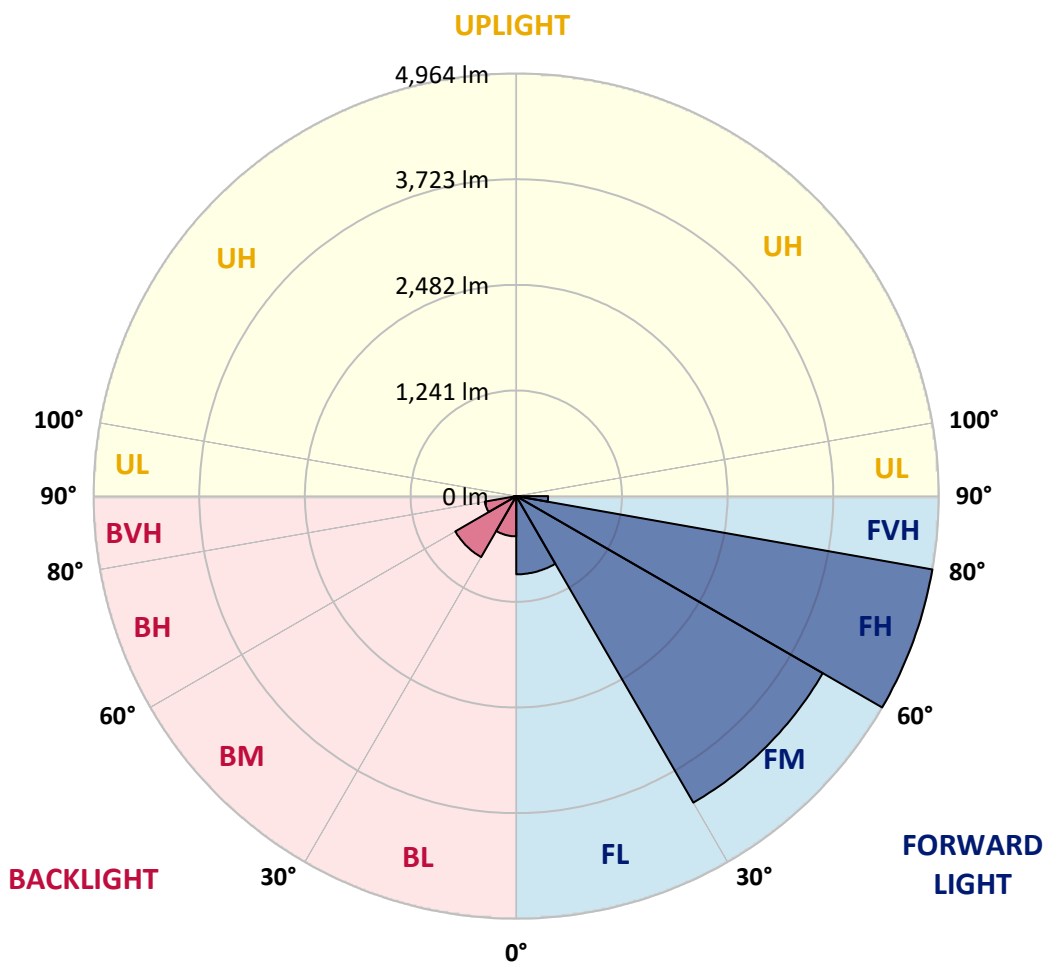
REPORT NUMBER: P480808
 CATALOG NUMBER: IFLD-S-SA3A-730-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	918.3	7.6			
FM (30°-60°)	4157.4	34.3			
FH (60°-80°)	4964.5	41.0			G2/5000
FVH (80°-90°)	374.8	3.1			G3/500
BL (0°-30°)	472.4	3.9	B1/500		
BM (30°-60°)	826.8	6.8	B1/1000		
BH (60°-80°)	374.7	3.1	B1/500		G1/500
BVH (80°-90°)	29.7	0.2			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





REPORT NUMBER: P480808
 CATALOG NUMBER: IFLD-S-SA3A-730-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2157.2	2157.2	2157.2	2157.2	2157.2	2157.2	2157.2	2157.2	2157.2	2157.2	2157.2
2.5°	2208.7	2185.7	2189.7	2181.6	2189.7	2187.0	2182.9	2162.6	2182.9	2162.6	2157.2
5°	2178.9	2178.9	2192.4	2172.1	2174.8	2161.2	2174.8	2159.9	2146.3	2112.4	2102.9
7.5°	2169.4	2168.0	2169.4	2140.9	2154.5	2146.3	2132.8	2116.5	2089.4	2067.7	2036.5
10°	2104.3	2117.9	2102.9	2111.1	2121.9	2097.5	2096.2	2092.1	2079.9	2051.4	2032.4
12.5°	2069.0	2092.1	2100.2	2093.5	2102.9	2105.7	2097.5	2092.1	2077.2	2058.2	2004.0
15°	2084.0	2056.8	2079.9	2124.6	2115.1	2121.9	2123.3	2117.9	2111.1	2075.8	2040.6
17.5°	2088.0	2071.8	2120.6	2130.1	2142.3	2166.7	2150.4	2149.0	2123.3	2098.9	2047.4
20°	2097.5	2090.7	2130.1	2180.2	2181.6	2185.7	2193.8	2173.5	2159.9	2117.9	2039.2
22.5°	2132.8	2155.8	2192.4	2214.1	2226.3	2229.0	2229.0	2188.4	2173.5	2139.6	2077.2
25°	2238.5	2214.1	2265.7	2291.4	2273.8	2269.7	2260.2	2223.6	2207.3	2177.5	2094.8
27.5°	2315.8	2314.5	2344.3	2379.5	2332.1	2341.6	2307.7	2296.8	2260.2	2244.0	2126.0
30°	2421.6	2451.4	2450.0	2460.9	2398.5	2409.4	2366.0	2345.6	2325.3	2334.8	2218.2
32.5°	2557.2	2546.3	2563.9	2555.8	2493.4	2502.9	2451.4	2420.2	2427.0	2455.5	2344.3
35°	2643.9	2633.1	2639.9	2639.9	2620.9	2610.0	2588.3	2547.7	2580.2	2633.1	2485.3
37.5°	2737.5	2751.0	2790.4	2782.2	2757.8	2757.8	2755.1	2726.6	2768.7	2898.8	2710.4
40°	2820.2	2856.8	2881.2	2897.5	2926.0	2926.0	2949.0	2932.7	3008.7	3217.5	2985.6
42.5°	2907.0	2908.3	3041.2	3053.4	3117.1	3144.3	3161.9	3175.4	3317.8	3551.0	3279.8
45°	3018.2	3024.9	3141.5	3235.1	3334.1	3343.6	3410.0	3454.7	3629.6	3915.7	3599.8
47.5°	3164.6	3156.5	3281.2	3430.3	3553.7	3618.8	3698.8	3747.6	3963.2	4311.6	3949.6
50°	3357.1	3332.7	3404.6	3639.1	3784.2	3856.1	3998.4	4079.8	4332.0	4689.9	4189.6
52.5°	3591.7	3551.0	3608.0	3864.2	4026.9	4172.0	4307.6	4398.4	4661.5	4982.8	4367.2
55°	3839.8	3755.7	3772.0	4102.8	4337.4	4474.4	4660.1	4755.0	5023.5	5245.8	4544.9
57.5°	4085.2	4032.3	3999.8	4332.0	4707.6	4839.1	5009.9	5133.3	5361.1	5479.0	4695.4
60°	4291.3	4277.8	4224.9	4687.2	5099.4	5211.9	5390.9	5466.8	5639.0	5694.6	4698.1
62.5°	4460.8	4414.7	4498.8	4973.3	5498.0	5625.5	5822.1	5828.9	5950.9	5828.9	4559.8
65°	4593.7	4596.4	4730.6	5319.1	5959.0	6147.5	6306.1	6288.5	6209.9	5748.9	4233.0
67.5°	4714.3	4765.9	4962.5	5698.7	6551.5	6729.2	6905.4	6672.2	6280.4	5374.6	3594.4
70°	4809.3	4860.8	5275.7	6161.0	7249.8	7510.1	7549.5	6824.1	5956.3	4553.0	2711.7
72.5°	4798.4	4892.0	5453.3	6529.8	7869.4	8094.5	7777.2	6397.0	4962.5	3174.1	1582.3
73°	4821.5	4867.6	5438.4	6632.9	8057.9	8170.4	7671.5	6262.7	4680.4	2847.3	1338.2
75°	4376.7	4532.7	5168.6	6464.8	7855.9	7835.5	7064.1	5218.7	3327.3	1495.5	648.1
77.5°	3237.8	3336.8	4073.0	5316.3	6448.5	6318.3	5328.5	3335.4	1579.6	554.5	349.8
80°	1582.3	1659.6	2158.5	3069.7	4216.7	4227.6	3307.0	1735.5	676.6	313.2	238.6
82.5°	790.5	836.6	1037.2	1349.1	2074.5	2173.5	1677.2	987.1	419.0	177.6	135.6
85°	516.6	549.1	638.6	660.3	880.0	928.8	781.0	770.1	272.5	96.3	109.8
87.5°	343.0	348.5	391.8	333.5	352.5	339.0	376.9	485.4	80.0	40.7	29.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480808
 CATALOG NUMBER: IFLD-S-SA3A-730-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2157.2	2157.2	2157.2	2157.2	2157.2	2157.2	2157.2	2157.2	2157.2	2157.2	2157.2
2.5°	2150.4	2131.4	2111.1	2082.6	2062.3	2031.1	2002.6	1990.4	1987.7	1989.1	1975.5
5°	2094.8	2067.7	2027.0	1968.7	1934.8	1883.3	1839.9	1816.9	1792.5	1796.5	1785.7
7.5°	2017.5	1987.7	1925.3	1857.5	1773.5	1700.3	1659.6	1602.6	1570.1	1545.7	1559.2
10°	1993.1	1941.6	1848.0	1754.5	1624.3	1528.1	1434.5	1369.4	1324.7	1281.3	1300.3
12.5°	1980.9	1929.4	1799.2	1660.9	1492.8	1346.4	1214.9	1134.9	1071.1	1033.2	1048.1
15°	1970.1	1906.3	1753.1	1557.9	1369.4	1176.9	1029.1	923.3	862.3	825.7	829.8
17.5°	1985.0	1894.1	1685.3	1457.6	1233.8	1027.7	863.7	753.9	691.5	668.4	663.0
20°	1970.1	1880.6	1618.9	1357.2	1098.3	885.4	728.1	637.3	593.9	574.9	570.8
22.5°	1975.5	1848.0	1549.8	1246.0	972.2	766.1	637.3	568.1	534.2	524.7	527.4
25°	2001.3	1829.1	1480.6	1124.0	847.4	677.9	579.0	526.1	501.7	492.2	494.9
27.5°	2020.2	1845.3	1418.2	1008.8	741.7	599.3	530.1	494.9	478.6	471.8	470.5
30°	2067.7	1854.8	1357.2	905.7	654.9	547.8	496.2	467.8	456.9	452.9	451.5
32.5°	2138.2	1872.4	1286.7	810.8	591.2	499.0	469.1	444.7	442.0	437.9	439.3
35°	2253.4	1933.5	1208.1	729.5	530.1	466.4	440.7	424.4	424.4	424.4	428.5
37.5°	2418.9	2018.9	1137.6	652.2	490.8	437.9	416.3	410.8	408.1	412.2	414.9
40°	2631.7	2121.9	1080.6	591.2	456.9	419.0	400.0	397.3	395.9	394.6	397.3
42.5°	2864.9	2253.4	1031.8	543.7	432.5	398.6	385.1	382.4	376.9	379.6	383.7
45°	3096.8	2416.2	988.4	505.7	416.3	387.8	368.8	367.4	364.7	363.4	370.2
47.5°	3354.4	2576.1	974.9	482.7	404.0	371.5	357.9	356.6	348.5	347.1	352.5
50°	3555.1	2694.1	989.8	471.8	386.4	359.3	349.8	343.0	336.3	329.5	329.5
52.5°	3693.4	2775.5	1000.6	463.7	376.9	343.0	330.8	328.1	321.3	314.6	311.8
55°	3818.1	2824.3	1003.3	465.1	367.4	324.1	315.9	314.6	310.5	299.6	296.9
57.5°	3860.1	2803.9	949.1	452.9	362.0	311.8	301.0	303.7	298.3	288.8	287.4
60°	3856.1	2662.9	825.7	436.6	349.8	298.3	284.7	292.9	292.9	282.0	280.7
62.5°	3621.5	2337.5	675.2	405.4	336.3	284.7	269.8	282.0	286.1	279.3	278.0
65°	3134.8	1903.6	564.0	374.2	315.9	269.8	254.9	268.5	275.2	272.5	271.2
67.5°	2593.8	1456.2	469.1	333.5	290.2	249.5	237.3	246.8	250.8	252.2	253.5
70°	1833.1	969.4	391.8	288.8	254.9	227.8	214.2	215.6	214.2	218.3	218.3
72.5°	996.6	558.6	318.6	245.4	219.7	198.0	188.5	181.7	181.7	180.3	180.3
73°	852.8	501.7	303.7	238.6	210.2	192.5	181.7	176.3	176.3	174.9	173.6
75°	478.6	367.4	260.3	204.7	181.7	168.1	160.0	151.9	150.5	150.5	150.5
77.5°	314.6	286.1	207.4	164.1	146.4	134.2	131.5	123.4	123.4	123.4	122.0
80°	235.9	225.1	160.0	124.7	112.5	103.0	100.3	94.9	93.6	88.1	89.5
82.5°	157.3	177.6	116.6	88.1	75.9	70.5	70.5	69.1	65.1	58.3	58.3
85°	124.7	145.1	84.1	54.2	44.7	38.0	39.3	38.0	36.6	29.8	28.5
87.5°	23.0	58.3	24.4	14.9	10.8	6.8	6.8	4.1	2.7	0.0	0.0
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)