

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: P480028

Luminaire Tested: **IFLD-S-SA3A-730-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480028
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-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

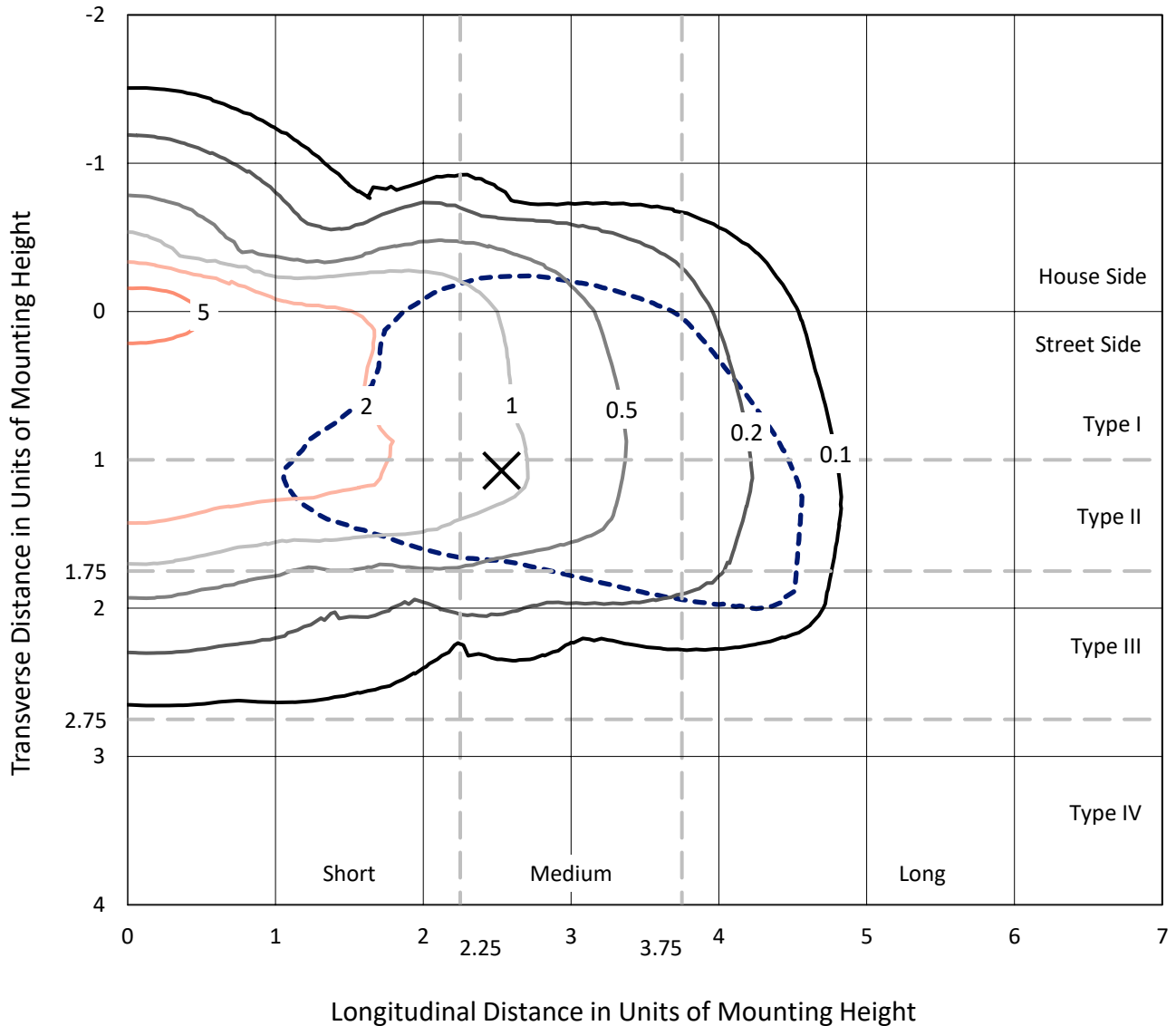
Lumens per Lamp: N/A
Luminaire Lumens: 12491.7 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

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: P480028
 CATALOG NUMBER: IFLD-S-SA3A-730-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

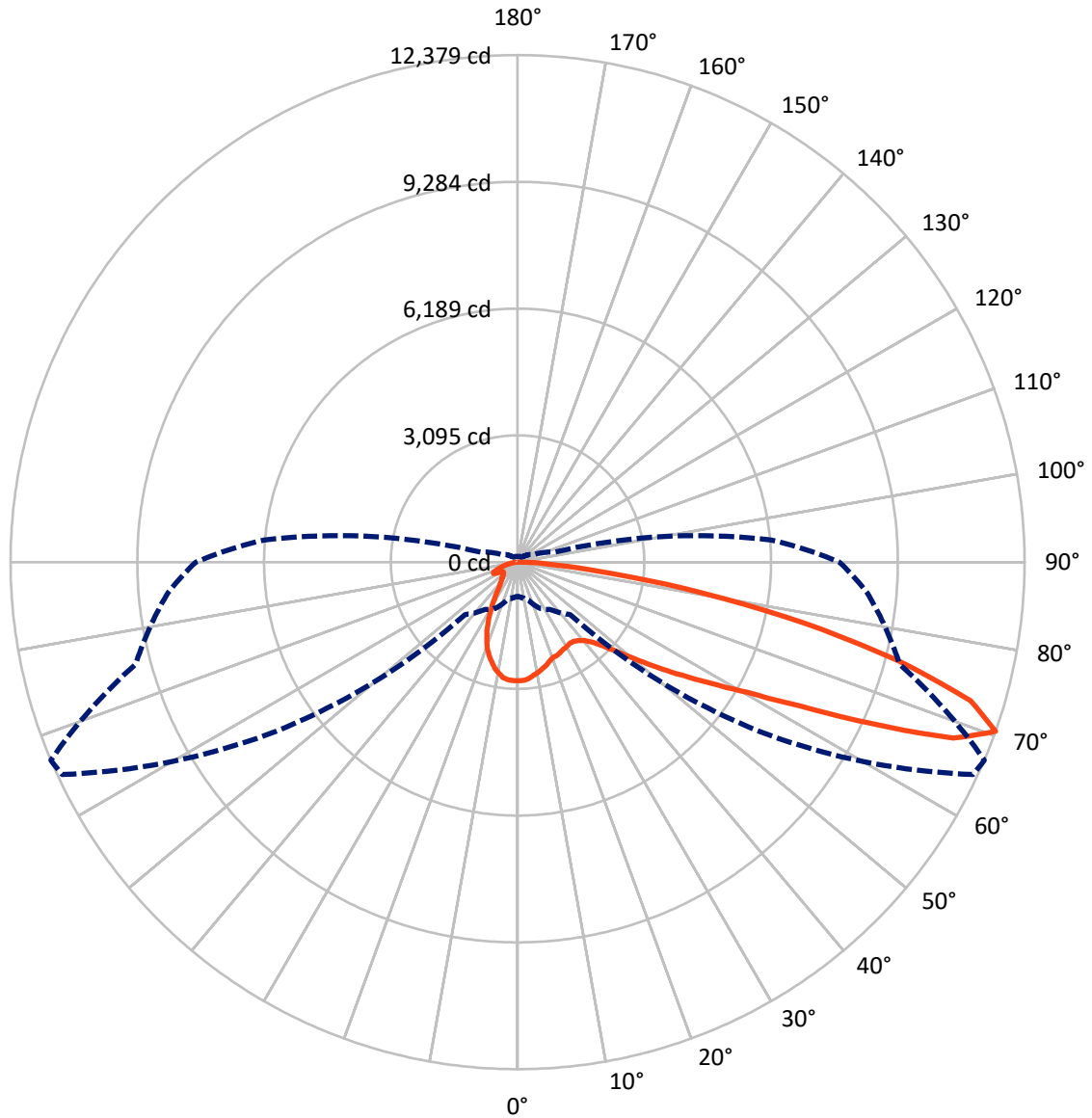
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P480028
CATALOG NUMBER: IFLD-S-SA3A-730-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



REPORT NUMBER: P480028
 CATALOG NUMBER: IFLD-S-SA3A-730-U-SL2

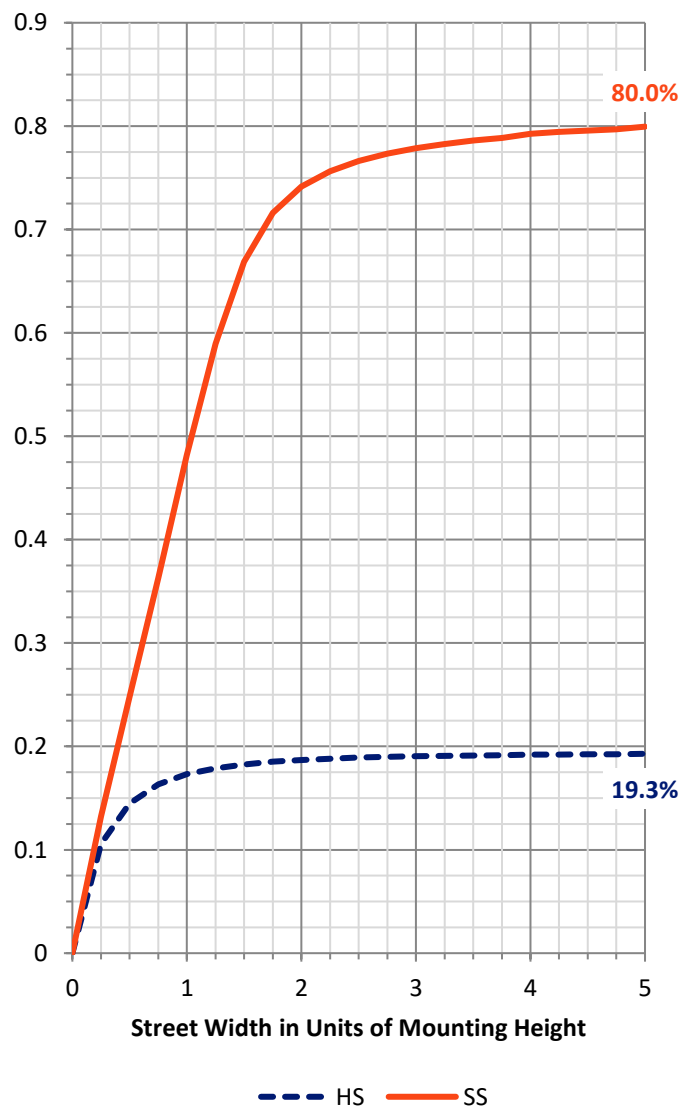
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2432.9	0.0	2432.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	10058.8	0.0	10058.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	12491.7	0.0	12491.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.3	2.0
10°-20°	604.3	4.8
20°-30°	816.0	6.5
30°-40°	1091.9	8.7
40°-50°	1605.7	12.9
50°-60°	2502.8	20.0
60°-70°	3083.1	24.7
70°-80°	2178.5	17.4
80°-90°	357.1	2.9
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°	12491.7	100.0
0°-180°	12491.7	100.0

Coefficient of Utilization

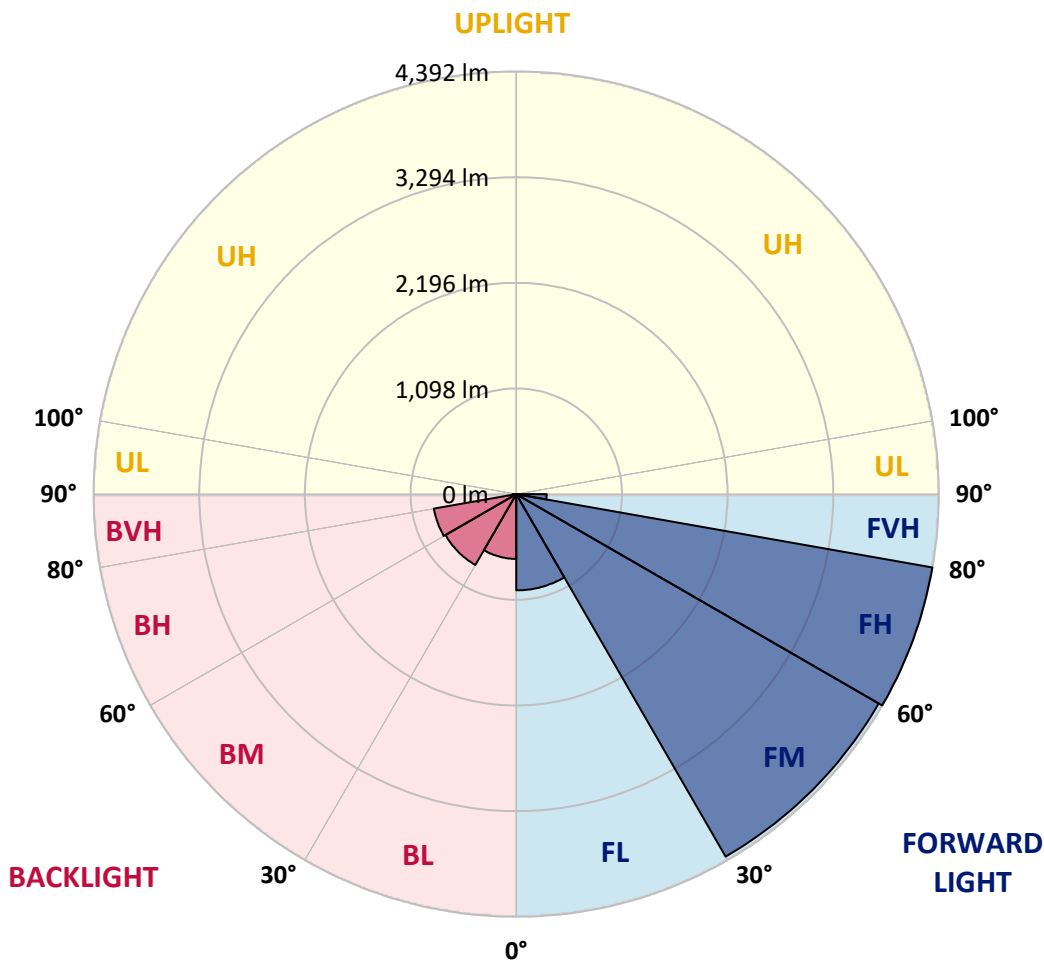


REPORT NUMBER: P480028
 CATALOG NUMBER: IFLD-S-SA3A-730-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	999.9	8.0			
FM (30°-60°)	4350.6	34.8			
FH (60°-80°)	4392.5	35.2			G2/5000
FVH (80°-90°)	315.9	2.5			G3/500
BL (0°-30°)	672.8	5.4	B2/1000		
BM (30°-60°)	849.9	6.8	B1/1000		
BH (60°-80°)	869.1	7.0	B2/1000		G2/1000
BVH (80°-90°)	41.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





REPORT NUMBER: P480028

CATALOG NUMBER: IFLD-S-SA3A-730-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2891.8	2891.8	2891.8	2891.8	2891.8	2891.8	2891.8	2891.8	2891.8	2891.8	2891.8
2.5°	2692.6	2723.1	2734.1	2750.7	2793.6	2825.4	2844.8	2866.9	2893.2	2915.3	2929.1
5°	2504.5	2521.1	2547.4	2565.4	2619.3	2705.1	2763.2	2857.2	2854.4	2889.0	2941.6
7.5°	2322.0	2338.6	2351.0	2387.0	2464.4	2541.9	2648.4	2800.5	2789.4	2869.7	2951.2
10°	2208.6	2196.1	2200.3	2261.1	2322.0	2409.1	2543.3	2698.2	2738.3	2862.7	2978.9
12.5°	2102.1	2088.3	2121.5	2160.2	2234.9	2313.7	2474.1	2613.8	2674.7	2837.8	2991.4
15°	2035.7	2026.0	2067.5	2084.1	2172.6	2266.7	2380.1	2550.2	2616.6	2807.4	2972.0
17.5°	1998.4	2006.7	2021.9	2057.9	2114.6	2194.8	2319.2	2507.3	2536.4	2770.1	2967.8
20°	2005.3	2015.0	2016.4	2031.6	2070.3	2132.5	2259.8	2461.7	2481.0	2763.2	2978.9
22.5°	2060.6	2046.8	2052.3	2042.6	2053.7	2102.1	2214.1	2400.8	2475.5	2705.1	2955.4
25°	2143.6	2124.2	2121.5	2088.3	2067.5	2081.4	2205.8	2385.6	2434.0	2687.1	2954.0
27.5°	2290.2	2261.1	2261.1	2211.4	2127.0	2104.9	2182.3	2360.7	2403.6	2670.5	2922.2
30°	2431.3	2431.3	2432.6	2362.1	2268.1	2158.8	2192.0	2351.0	2378.7	2620.7	2879.3
32.5°	2602.7	2598.6	2591.7	2557.1	2411.9	2248.7	2239.0	2338.6	2352.4	2604.1	2866.9
35°	2770.1	2759.0	2812.9	2782.5	2634.5	2424.3	2287.4	2344.1	2374.5	2579.2	2828.2
37.5°	2895.9	2902.8	3014.9	3034.2	2907.0	2623.5	2424.3	2399.4	2428.5	2615.2	2828.2
40°	3059.1	3086.8	3191.9	3256.9	3179.4	2886.2	2641.5	2492.1	2512.8	2695.4	2889.0
42.5°	3273.5	3297.0	3431.1	3515.5	3493.4	3220.9	2855.8	2685.7	2669.1	2829.5	2980.3
45°	3557.0	3561.1	3696.7	3812.8	3858.5	3570.8	3196.0	2930.5	2916.7	3060.5	3147.6
47.5°	3894.4	3890.3	3974.6	4099.1	4222.2	3988.5	3587.4	3302.5	3252.7	3391.0	3425.6
50°	4220.8	4202.8	4222.2	4381.2	4617.7	4511.2	4063.1	3757.5	3707.7	3783.8	3843.3
52.5°	4400.6	4422.7	4370.2	4580.4	5038.1	5129.4	4693.8	4301.0	4258.1	4295.5	4399.2
55°	4274.7	4320.4	4285.8	4485.0	5222.1	5883.1	5509.7	4930.3	4874.9	4861.1	5031.2
57.5°	3739.5	3822.5	3829.4	4144.7	5158.5	6466.7	6657.6	5672.9	5589.9	5448.9	5624.5
60°	2871.0	2954.0	3017.6	3391.0	4613.6	6815.2	7988.0	6729.5	6455.7	6090.6	6195.7
62.5°	2012.2	2068.9	2132.5	2362.1	3557.0	6610.6	9138.6	8217.6	7712.8	6766.8	6898.2
65°	1465.9	1510.2	1575.2	1710.7	2185.1	5469.6	9672.5	9985.0	9506.5	7627.0	7610.5
67.5°	1103.6	1131.3	1217.0	1434.1	1514.3	3378.6	9119.3	11852.0	11464.8	8582.7	8183.0
70°	835.3	858.8	939.0	1236.4	1414.8	1811.7	7194.2	12268.3	12378.9	9654.5	8567.5
72.5°	575.3	601.6	691.5	1030.3	1347.0	1436.9	4515.4	11145.3	11564.3	10095.6	8155.3
75°	352.7	370.6	423.2	781.4	1337.3	1405.1	2485.2	9133.1	9577.0	9328.1	7134.7
77.5°	248.9	247.6	257.2	457.8	1158.9	1413.4	1532.3	6692.2	7123.6	6874.7	4841.8
80°	181.2	182.6	192.2	273.8	786.9	1436.9	1207.3	4482.2	4610.8	3584.6	1909.9
82.5°	109.3	114.8	138.3	185.3	473.0	1297.2	1116.1	2490.7	2330.3	1150.6	525.5
85°	58.1	58.1	81.6	117.6	251.7	968.1	1074.6	1185.2	993.0	356.8	195.0
87.5°	13.8	13.8	23.5	47.0	101.0	463.3	733.0	471.6	377.5	120.3	80.2
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: P480028
 CATALOG NUMBER: IFLD-S-SA3A-730-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2891.8	2891.8	2891.8	2891.8	2891.8	2891.8	2891.8	2891.8	2891.8	2891.8	2891.8
2.5°	2923.6	2907.0	2927.7	2886.2	2853.1	2854.4	2803.3	2800.5	2793.6	2757.6	2770.1
5°	2956.8	2942.9	2919.4	2873.8	2800.5	2727.2	2683.0	2626.2	2602.7	2590.3	2595.8
7.5°	2988.6	2963.7	2895.9	2832.3	2718.9	2580.6	2500.4	2424.3	2327.5	2316.5	2297.1
10°	2996.9	2944.3	2857.2	2721.7	2570.9	2417.4	2234.9	2093.8	2019.1	1961.0	1938.9
12.5°	2984.4	2962.3	2795.0	2620.7	2392.5	2151.9	1938.9	1739.8	1601.5	1529.6	1510.2
15°	2983.1	2944.3	2725.8	2467.2	2175.4	1861.5	1558.6	1319.3	1174.1	1114.7	1114.7
17.5°	2984.4	2891.8	2644.2	2312.3	1919.6	1495.0	1161.7	965.3	885.1	876.8	883.7
20°	2956.8	2853.1	2558.5	2129.8	1598.7	1123.0	843.6	763.4	763.4	774.5	778.6
22.5°	2931.9	2795.0	2423.0	1904.3	1272.3	813.2	686.0	662.4	688.7	708.1	716.4
25°	2897.3	2746.6	2284.7	1670.6	968.1	655.5	596.1	601.6	626.5	661.1	658.3
27.5°	2847.5	2662.2	2120.1	1399.6	720.5	565.6	550.4	553.2	579.5	594.7	591.9
30°	2790.8	2576.5	1968.0	1129.9	571.2	518.6	517.2	524.1	528.3	536.6	535.2
32.5°	2718.9	2463.1	1806.2	878.2	514.5	492.3	486.8	482.7	486.8	485.4	481.3
35°	2667.7	2402.2	1641.6	669.4	482.7	468.8	464.7	457.8	452.2	443.9	442.5
37.5°	2653.9	2341.4	1468.7	546.3	457.8	450.8	437.0	424.6	417.7	413.5	410.7
40°	2645.6	2301.3	1300.0	479.9	437.0	430.1	413.5	396.9	390.0	385.8	387.2
42.5°	2674.7	2279.1	1128.5	446.7	419.0	406.6	388.6	369.3	367.9	365.1	369.3
45°	2777.0	2306.8	969.5	423.2	401.1	380.3	356.8	347.1	345.7	343.0	345.7
47.5°	3009.3	2375.9	833.9	408.0	381.7	363.7	338.8	325.0	323.6	322.2	322.2
50°	3330.2	2588.9	720.5	390.0	369.3	344.4	320.8	305.6	302.9	297.3	297.3
52.5°	3833.6	2947.1	652.8	380.3	347.1	326.4	301.5	284.9	278.0	272.4	272.4
55°	4400.6	3391.0	640.3	363.7	323.6	304.3	282.1	265.5	258.6	251.7	248.9
57.5°	5046.4	3978.8	728.8	352.7	307.0	282.1	257.2	242.0	236.5	229.6	226.8
60°	5648.0	4565.2	1004.0	336.1	291.8	261.4	236.5	221.3	214.4	207.4	207.4
62.5°	6343.7	5291.2	1470.1	336.1	278.0	239.3	214.4	203.3	199.1	192.2	190.8
65°	7166.5	6042.2	1810.3	356.8	273.8	219.9	193.6	182.6	178.4	174.3	172.9
67.5°	7793.0	6473.7	1557.2	412.1	291.8	203.3	172.9	166.0	163.2	159.0	156.3
70°	7859.4	6210.9	939.0	445.3	309.8	186.7	154.9	148.0	148.0	143.8	141.1
72.5°	7263.3	5511.1	632.0	396.9	280.7	167.3	136.9	131.4	128.6	125.8	124.5
75°	6078.1	4674.4	499.3	316.7	215.7	138.3	118.9	113.4	109.3	107.9	105.1
77.5°	4082.5	3038.4	369.3	247.6	159.0	112.0	99.6	94.0	89.9	88.5	84.4
80°	1568.3	1157.5	237.9	179.8	112.0	88.5	78.8	73.3	70.5	66.4	63.6
82.5°	461.9	374.8	132.8	110.6	71.9	60.9	56.7	52.6	48.4	44.3	42.9
85°	190.8	171.5	81.6	58.1	44.3	36.0	33.2	29.0	24.9	22.1	19.4
87.5°	88.5	73.3	37.3	22.1	15.2	8.3	4.1	1.4	0.0	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)