

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: P484906

Luminaire Tested: **IFLD-S-SA3D-827-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484906
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-827-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

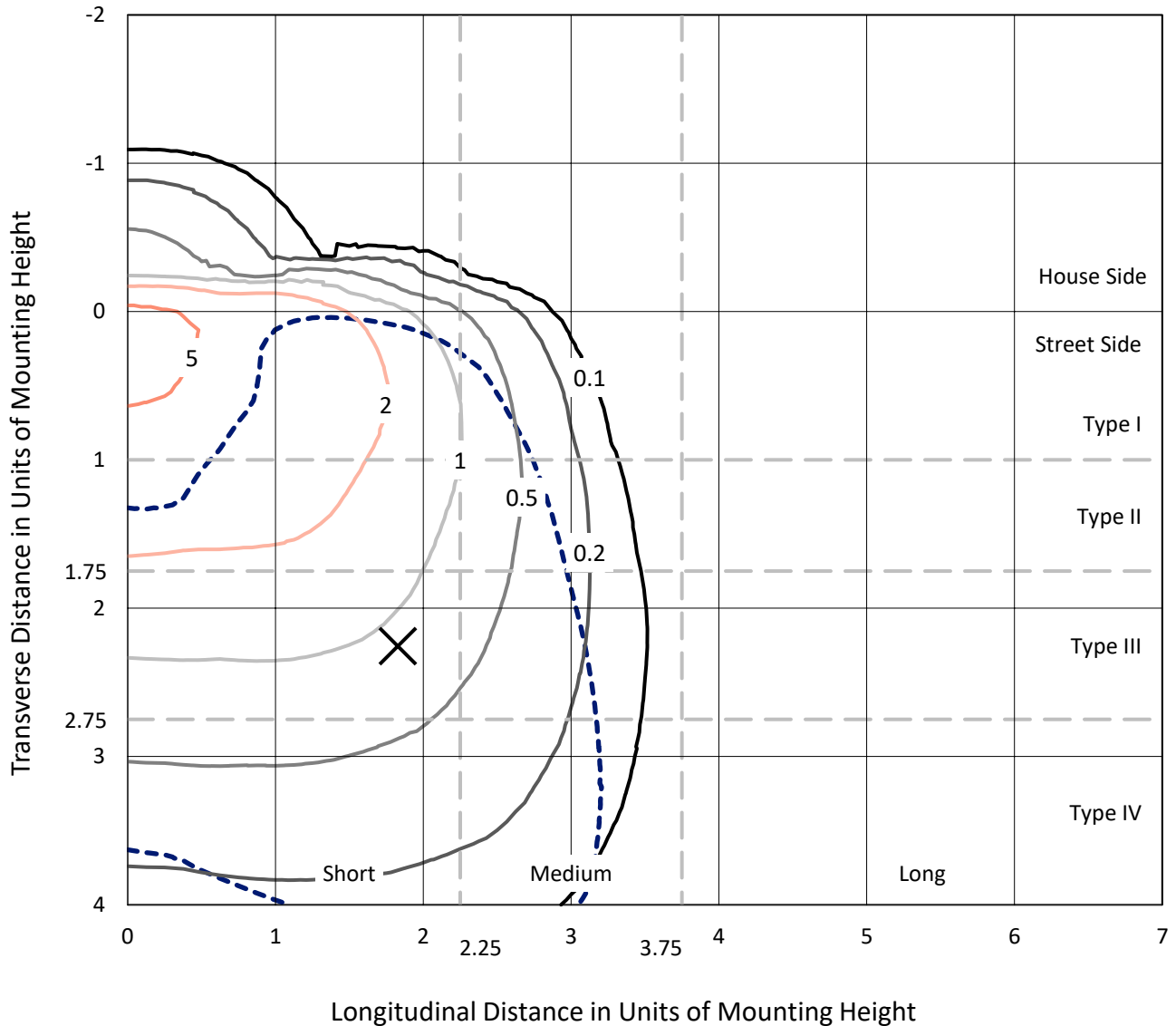
Lumens per Lamp: N/A
Luminaire Lumens: 14153.9 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 184.1
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: P484906
 CATALOG NUMBER: IFLD-S-SA3D-827-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

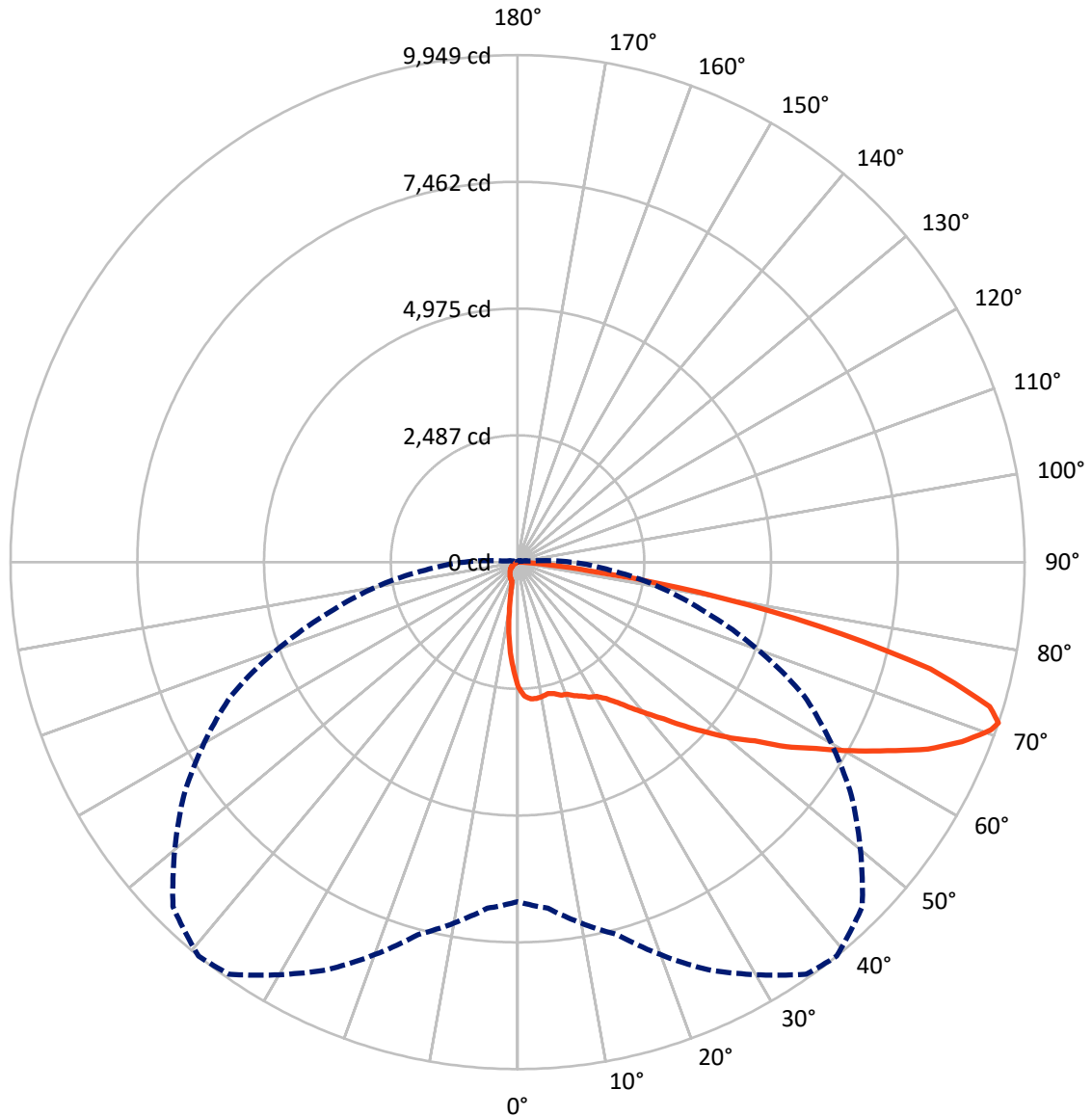
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P484906
CATALOG NUMBER: IFLD-S-SA3D-827-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P484906
 CATALOG NUMBER: IFLD-S-SA3D-827-U-SL4-HSS

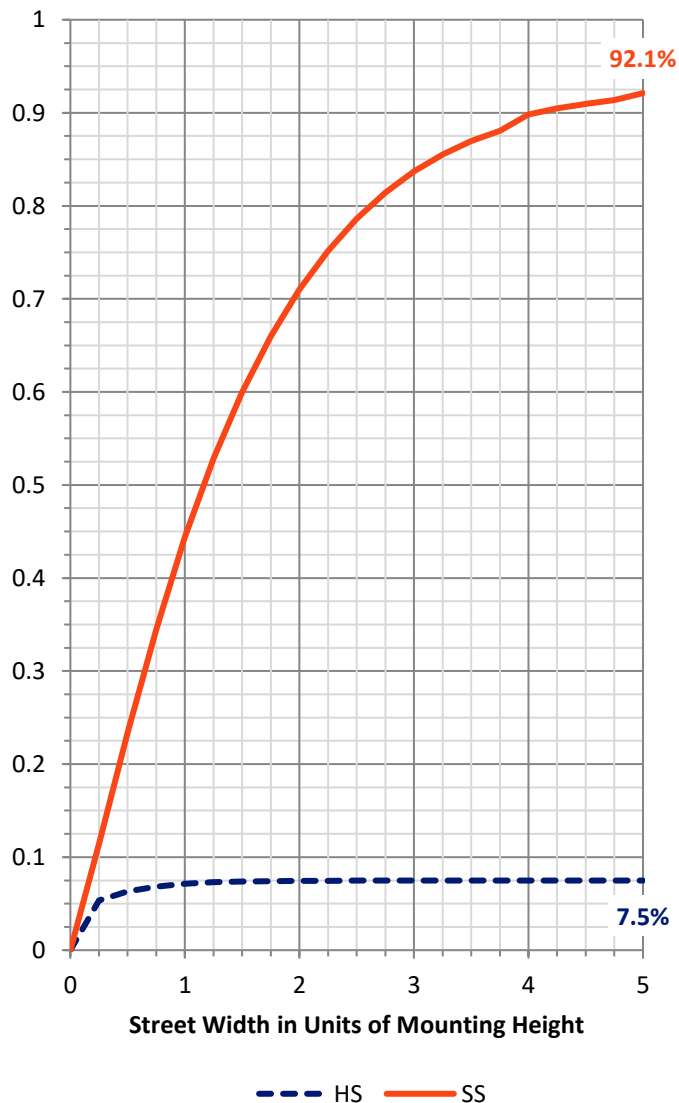
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1065.6	0.0	1065.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	13088.3	0.0	13088.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	14153.9	0.0	14153.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.0	1.5
10°-20°	507.0	3.6
20°-30°	813.8	5.8
30°-40°	1245.8	8.8
40°-50°	1999.7	14.1
50°-60°	2937.3	20.8
60°-70°	3699.4	26.1
70°-80°	2468.9	17.4
80°-90°	275.9	1.9
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°	14153.9	100.0
0°-180°	14153.9	100.0

Coefficient of Utilization



REPORT NUMBER: P484906

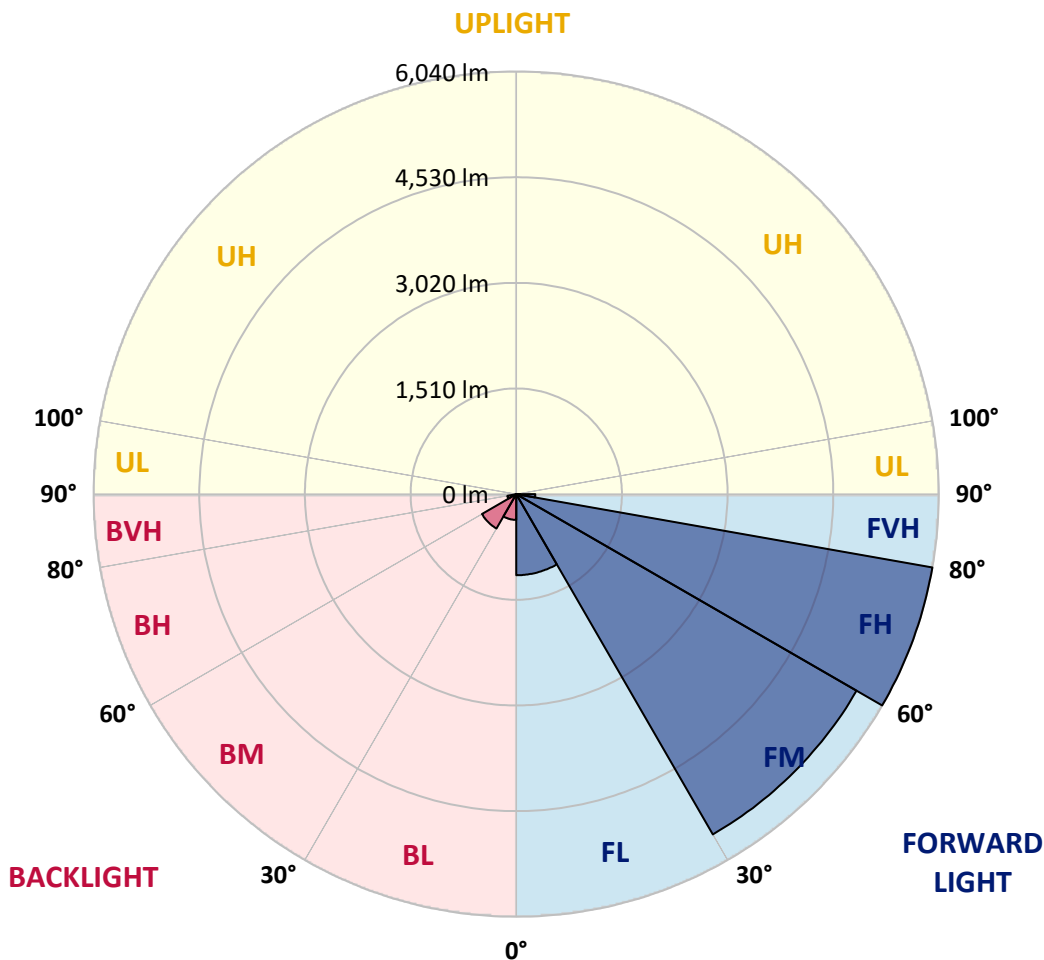
CATALOG NUMBER: IFLD-S-SA3D-827-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1158.9	8.2			
FM (30°-60°)	5616.5	39.7			
FH (60°-80°)	6040.1	42.7			G3/7500
FVH (80°-90°)	272.9	1.9			G3/500
BL (0°-30°)	367.9	2.6	B1/500		
BM (30°-60°)	566.4	4.0	B1/1000		
BH (60°-80°)	128.3	0.9	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
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: P484906

CATALOG NUMBER: IFLD-S-SA3D-827-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6
2.5°	2654.8	2680.8	2654.8	2643.6	2632.5	2634.4	2604.7	2610.2	2575.0	2528.5	2491.4
5°	2738.3	2773.6	2745.8	2732.8	2730.9	2695.6	2680.8	2645.5	2602.8	2530.4	2485.8
7.5°	2730.9	2723.5	2736.5	2725.3	2701.2	2701.2	2684.5	2634.4	2591.7	2510.0	2433.9
10°	2675.2	2697.5	2686.3	2673.4	2678.9	2680.8	2649.2	2613.9	2600.9	2519.3	2394.9
12.5°	2669.6	2632.5	2673.4	2675.2	2651.1	2649.2	2645.5	2636.2	2595.4	2521.1	2404.2
15°	2651.1	2636.2	2677.1	2678.9	2684.5	2678.9	2684.5	2677.1	2636.2	2593.5	2445.0
17.5°	2665.9	2649.2	2706.8	2734.6	2721.6	2747.6	2738.3	2704.9	2669.6	2619.5	2484.0
20°	2669.6	2693.8	2756.9	2768.0	2808.9	2766.2	2764.3	2729.0	2706.8	2652.9	2508.1
22.5°	2738.3	2749.5	2827.4	2851.6	2853.4	2847.9	2801.5	2760.6	2751.3	2684.5	2513.7
25°	2842.3	2881.3	2916.6	2931.4	2937.0	2911.0	2862.7	2810.7	2788.5	2745.8	2571.2
27.5°	3026.1	3002.0	3033.5	3055.8	2992.7	3002.0	2940.7	2896.1	2864.6	2827.4	2638.1
30°	3189.5	3167.2	3169.0	3165.3	3111.5	3061.4	3044.7	2966.7	2927.7	2942.5	2742.0
32.5°	3336.1	3287.9	3328.7	3310.1	3209.9	3195.0	3182.0	3083.6	3091.1	3159.8	2898.0
35°	3471.6	3454.9	3488.4	3454.9	3388.1	3384.4	3371.4	3286.0	3326.8	3425.2	3165.3
37.5°	3596.0	3601.6	3642.4	3625.7	3631.3	3635.0	3627.6	3536.6	3653.6	3874.5	3477.2
40°	3711.1	3703.7	3804.0	3855.9	3867.1	3907.9	3907.9	3885.6	4065.7	4314.5	3909.8
42.5°	3833.7	3852.2	3982.2	4069.4	4175.3	4210.5	4258.8	4269.9	4548.4	4832.5	4351.6
45°	4034.2	4002.6	4167.8	4373.9	4466.7	4591.1	4665.4	4728.5	5064.5	5454.4	4793.5
47.5°	4288.5	4225.4	4370.2	4669.1	4884.4	4986.5	5120.2	5203.8	5532.4	5935.2	5211.2
50°	4570.7	4505.7	4576.3	4988.4	5239.0	5424.7	5595.5	5701.3	6098.6	6473.6	5515.6
52.5°	4890.0	4830.6	4841.7	5320.7	5690.2	5825.7	6050.3	6208.1	6603.6	6798.5	5623.3
55°	5229.7	5214.9	5179.6	5645.6	6085.6	6390.1	6525.6	6714.9	7121.5	6974.9	5740.3
57.5°	5571.3	5524.9	5575.1	6076.3	6720.5	6902.4	7090.0	7203.2	7409.3	7128.9	5695.7
60°	5892.5	5896.2	5966.8	6544.1	7260.8	7518.8	7687.7	7619.1	7704.5	7195.8	5593.6
62.5°	6163.6	6156.1	6334.4	7069.5	7975.5	8150.0	8276.3	7969.9	7841.8	7260.8	5415.4
65°	6406.8	6490.3	6770.6	7695.2	8647.6	8848.1	8771.9	8302.2	7975.5	7069.5	4914.1
67.5°	6590.6	6714.9	7201.3	8283.7	9263.9	9405.0	9299.2	8554.7	7817.7	6319.5	4002.6
70°	6698.2	6824.5	7509.5	8773.8	9755.9	9858.0	9609.2	8359.8	6896.9	4576.3	2497.0
71°	6664.8	6818.9	7568.9	8825.8	9872.8	9949.0	9562.8	7999.6	6202.6	3831.8	1821.2
72.5°	6362.2	6507.0	7322.0	8788.6	9731.7	9685.3	9200.8	7134.5	4882.6	2443.1	941.2
75°	4674.7	4830.6	6284.2	7602.3	8686.5	8367.2	7446.4	5007.0	2547.1	748.2	274.8
77.5°	2328.0	2354.0	3900.5	5519.4	6371.5	6054.0	4990.3	2792.2	952.4	220.9	137.4
80°	1073.1	1080.5	1462.9	2859.0	3852.2	3625.7	2795.9	1377.5	430.7	117.0	107.7
82.5°	731.5	742.6	881.8	1184.4	1672.7	1410.9	1132.5	881.8	246.9	70.5	105.8
85°	133.7	122.5	493.8	627.5	646.1	438.1	391.7	763.0	92.8	40.8	92.8
87.5°	0.0	1.9	68.7	256.2	230.2	102.1	133.7	185.6	9.3	13.0	16.7
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: P484906

CATALOG NUMBER: IFLD-S-SA3D-827-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6
2.5°	2459.9	2439.4	2370.7	2294.6	2225.9	2172.1	2103.4	2071.8	2021.7	1993.9	1992.0
5°	2424.6	2368.9	2250.1	2122.0	1979.0	1860.2	1728.4	1654.1	1568.7	1542.7	1537.2
7.5°	2365.2	2285.3	2110.8	1930.8	1711.7	1501.9	1340.4	1167.7	1061.9	1017.4	1000.7
10°	2328.0	2231.5	1993.9	1724.7	1418.4	1123.2	896.7	712.9	616.4	569.9	558.8
12.5°	2328.0	2224.1	1899.2	1527.9	1121.3	768.6	555.1	449.3	417.7	406.6	406.6
15°	2322.5	2209.2	1808.2	1325.5	829.9	516.1	414.0	391.7	388.0	386.2	384.3
17.5°	2350.3	2183.2	1715.4	1108.3	586.7	406.6	380.6	376.9	373.2	373.2	369.4
20°	2370.7	2168.4	1604.0	878.1	438.1	376.9	365.7	360.2	358.3	356.4	360.2
22.5°	2354.0	2146.1	1466.6	657.2	382.4	358.3	350.9	345.3	341.6	341.6	343.5
25°	2385.6	2125.7	1329.3	495.7	358.3	341.6	334.2	330.5	328.6	326.7	323.0
27.5°	2428.3	2135.0	1165.9	399.1	337.9	324.9	317.5	313.7	311.9	308.2	311.9
30°	2480.3	2133.1	985.8	349.0	319.3	306.3	298.9	297.0	293.3	291.5	293.3
32.5°	2569.4	2181.4	800.1	323.0	298.9	287.8	280.3	278.5	276.6	274.8	272.9
35°	2760.6	2240.8	625.6	302.6	280.3	267.3	261.8	258.1	256.2	254.3	252.5
37.5°	2996.4	2372.6	477.1	284.0	261.8	248.8	243.2	241.3	233.9	232.1	230.2
40°	3291.6	2513.7	367.6	263.6	245.1	232.1	226.5	220.9	211.6	207.9	204.2
42.5°	3659.2	2651.1	302.6	245.1	226.5	217.2	207.9	198.6	191.2	183.8	180.1
45°	4026.7	2810.7	265.5	228.3	211.6	200.5	193.1	180.1	167.1	155.9	154.1
47.5°	4333.1	2868.3	243.2	209.8	196.8	187.5	176.4	159.7	141.1	130.0	128.1
50°	4561.4	2834.9	220.9	191.2	180.1	170.8	155.9	135.5	117.0	105.8	102.1
52.5°	4606.0	2688.2	200.5	176.4	163.4	152.2	135.5	113.2	92.8	81.7	79.8
55°	4574.4	2445.0	183.8	163.4	148.5	131.8	113.2	91.0	72.4	61.3	59.4
57.5°	4509.4	2157.2	165.2	146.7	130.0	113.2	92.8	74.3	53.8	42.7	42.7
60°	4288.5	1765.5	146.7	128.1	111.4	96.5	76.1	53.8	37.1	27.8	26.0
62.5°	3980.3	1357.1	128.1	109.5	96.5	79.8	59.4	39.0	22.3	14.9	14.9
65°	3417.8	950.5	107.7	91.0	79.8	65.0	44.6	24.1	13.0	5.6	5.6
67.5°	2597.2	588.5	89.1	76.1	68.7	52.0	31.6	14.9	5.6	1.9	0.0
70°	1490.8	306.3	70.5	61.3	53.8	39.0	22.3	7.4	3.7	0.0	0.0
71°	1041.5	226.5	63.1	53.8	48.3	35.3	18.6	5.6	1.9	0.0	0.0
72.5°	521.7	150.4	53.8	44.6	39.0	27.8	14.9	5.6	1.9	0.0	0.0
75°	185.6	96.5	37.1	29.7	27.8	20.4	9.3	3.7	1.9	0.0	0.0
77.5°	128.1	78.0	26.0	18.6	18.6	13.0	5.6	1.9	1.9	0.0	0.0
80°	117.0	42.7	16.7	11.1	9.3	7.4	3.7	1.9	0.0	0.0	0.0
82.5°	117.0	31.6	9.3	7.4	5.6	3.7	1.9	0.0	0.0	0.0	0.0
85°	81.7	16.7	5.6	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	13.0	5.6	3.7	1.9	1.9	0.0	0.0	0.0	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)