

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: P484905

Luminaire Tested: **IFLD-S-SA3C-827-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484905
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-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

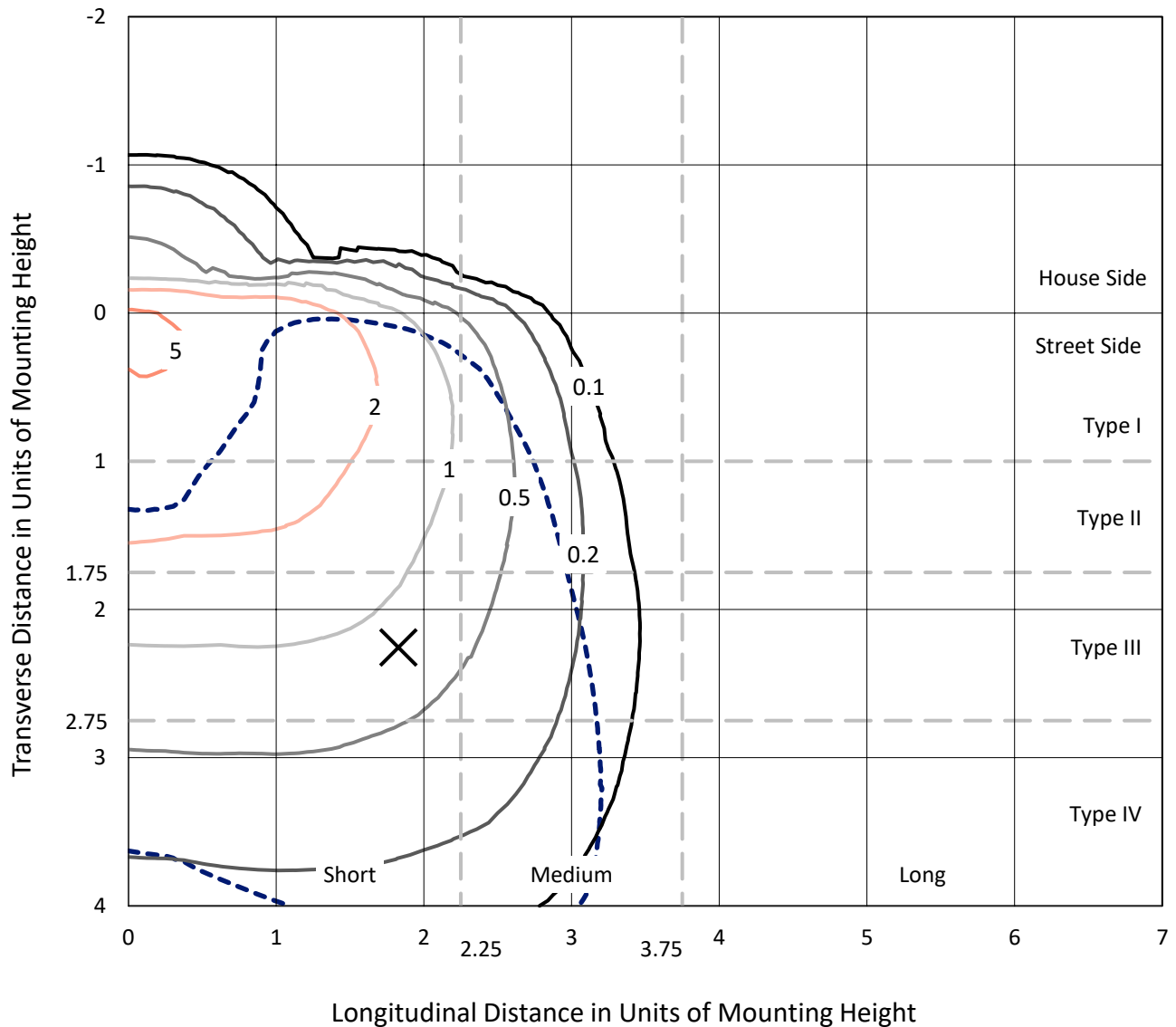
Lumens per Lamp: N/A
Luminaire Lumens: 12863.4 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 160.8
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

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Iso-Footcandle Lines of Horizontal Illumination

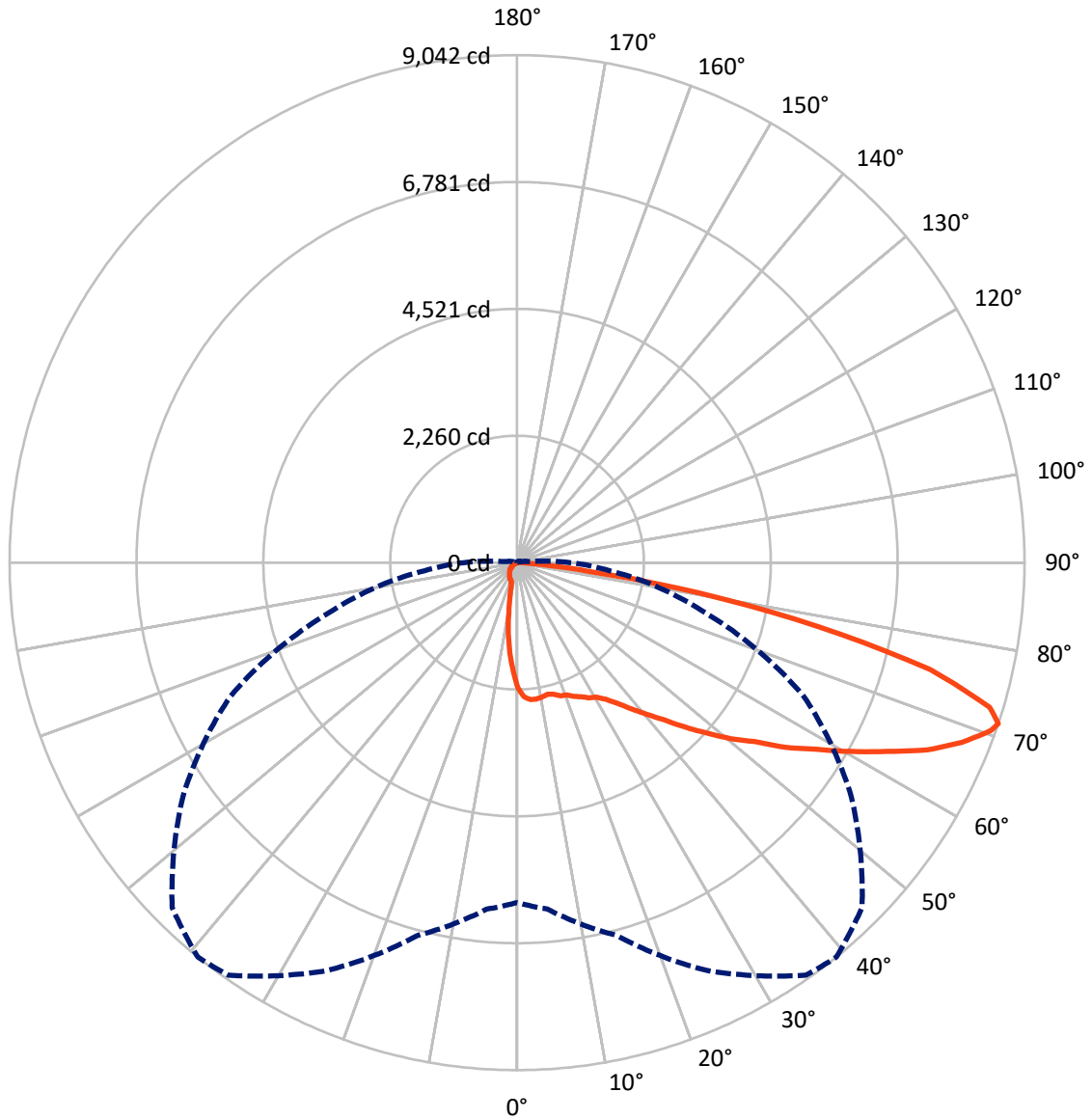
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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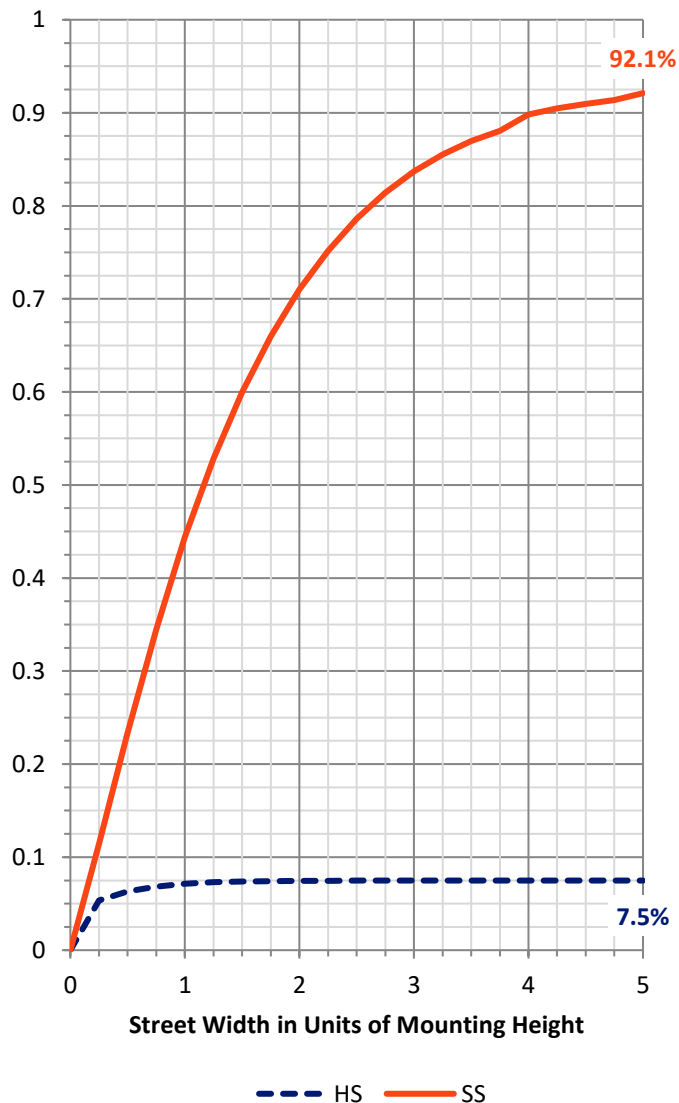
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	968.4	0.0	968.4
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	11895.0	0.0	11895.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	12863.4	0.0	12863.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	1.5
10°-20°	460.7	3.6
20°-30°	739.6	5.7
30°-40°	1132.2	8.8
40°-50°	1817.4	14.1
50°-60°	2669.5	20.8
60°-70°	3362.1	26.1
70°-80°	2243.8	17.4
80°-90°	250.8	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°	12863.4	100.0
0°-180°	12863.4	100.0

Coefficient of Utilization



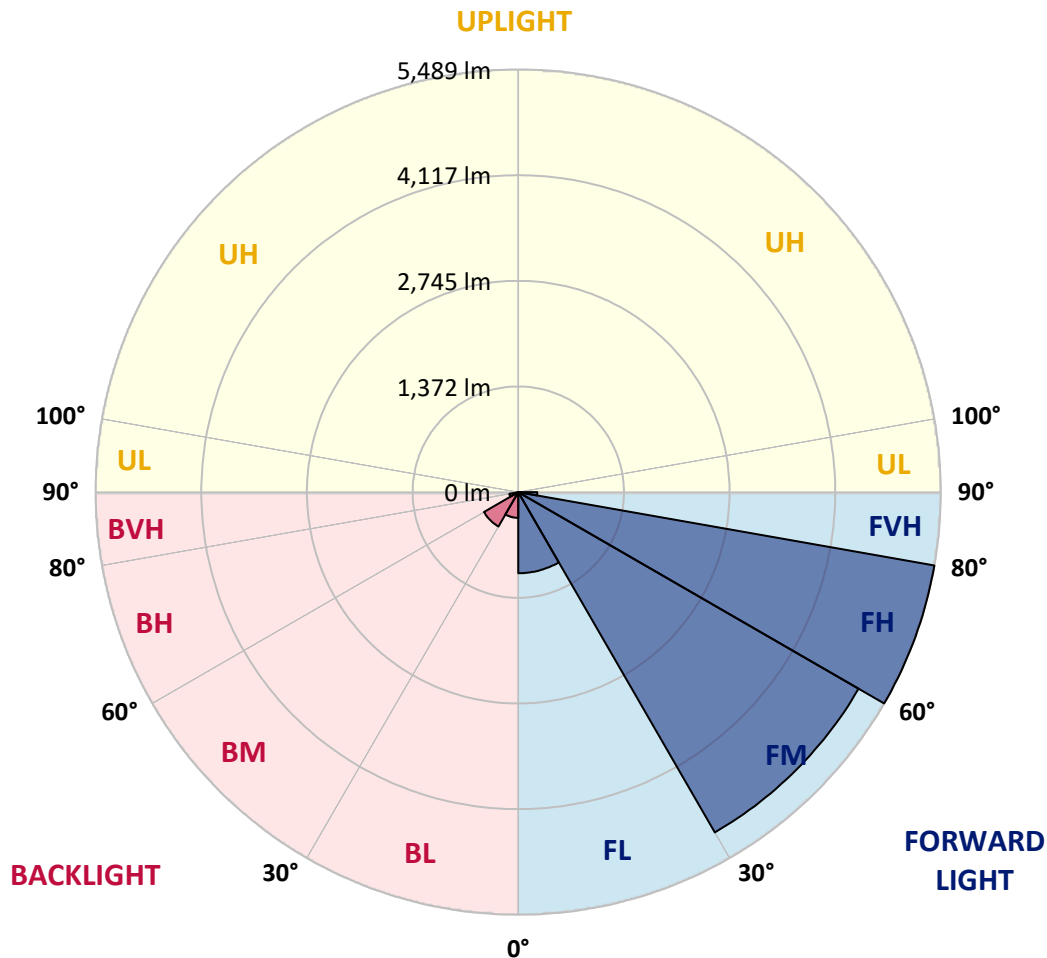
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1053.2	8.2			
FM	(30°-60°)	5104.4	39.7			
FH	(60°-80°)	5489.4	42.7			G3/7500
FVH	(80°-90°)	248.0	1.9			G3/500
BL	(0°-30°)	334.3	2.6	B1/500		
BM	(30°-60°)	514.8	4.0	B1/1000		
BH	(60°-80°)	116.6	0.9	B1/500		G1/500
BVH	(80°-90°)	2.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2239.0	2239.0	2239.0	2239.0	2239.0	2239.0	2239.0	2239.0	2239.0	2239.0	2239.0
2.5°	2412.7	2436.4	2412.7	2402.6	2392.5	2394.2	2367.2	2372.2	2340.2	2298.0	2264.3
5°	2488.7	2520.7	2495.4	2483.6	2481.9	2449.9	2436.4	2404.3	2365.5	2299.7	2259.2
7.5°	2481.9	2475.2	2487.0	2476.9	2454.9	2454.9	2439.7	2394.2	2355.4	2281.1	2212.0
10°	2431.3	2451.5	2441.4	2429.6	2434.7	2436.4	2407.7	2375.6	2363.8	2289.6	2176.5
12.5°	2426.2	2392.5	2429.6	2431.3	2409.4	2407.7	2404.3	2395.9	2358.7	2291.3	2185.0
15°	2409.4	2395.9	2433.0	2434.7	2439.7	2434.7	2439.7	2433.0	2395.9	2357.1	2222.1
17.5°	2422.9	2407.7	2460.0	2485.3	2473.5	2497.1	2488.7	2458.3	2426.2	2380.7	2257.5
20°	2426.2	2448.2	2505.5	2515.7	2552.8	2514.0	2512.3	2480.2	2460.0	2411.0	2279.4
22.5°	2488.7	2498.8	2569.6	2591.6	2593.3	2588.2	2546.0	2508.9	2500.5	2439.7	2284.5
25°	2583.1	2618.6	2650.6	2664.1	2669.2	2645.6	2601.7	2554.5	2534.2	2495.4	2336.8
27.5°	2750.2	2728.2	2756.9	2777.2	2719.8	2728.2	2672.6	2632.1	2603.4	2569.6	2397.6
30°	2898.7	2878.4	2880.1	2876.7	2827.8	2782.2	2767.1	2696.2	2660.8	2674.3	2492.0
32.5°	3031.9	2988.1	3025.2	3008.3	2917.2	2903.7	2891.9	2802.5	2809.2	2871.7	2633.8
35°	3155.1	3139.9	3170.3	3139.9	3079.2	3075.8	3064.0	2986.4	3023.5	3112.9	2876.7
37.5°	3268.2	3273.2	3310.3	3295.2	3300.2	3303.6	3296.8	3214.2	3320.5	3521.2	3160.2
40°	3372.8	3366.0	3457.1	3504.4	3514.5	3551.6	3551.6	3531.4	3695.0	3921.1	3553.3
42.5°	3484.1	3501.0	3619.1	3698.4	3794.6	3826.6	3870.5	3880.6	4133.7	4391.9	3954.9
45°	3666.3	3637.7	3787.8	3975.1	4059.5	4172.5	4240.0	4297.4	4602.8	4957.1	4356.4
47.5°	3897.5	3840.1	3971.7	4243.4	4439.1	4531.9	4653.4	4729.3	5027.9	5394.1	4736.0
50°	4154.0	4094.9	4159.0	4533.6	4761.4	4930.1	5085.3	5181.5	5542.5	5883.4	5012.8
52.5°	4444.2	4390.2	4400.3	4835.6	5171.4	5294.5	5498.7	5642.1	6001.5	6178.6	5110.6
55°	4752.9	4739.4	4707.4	5130.9	5530.7	5807.4	5930.6	6102.7	6472.2	6338.9	5216.9
57.5°	5063.4	5021.2	5066.7	5522.3	6107.8	6273.1	6443.5	6546.4	6733.7	6479.0	5176.4
60°	5355.3	5358.6	5422.8	5947.5	6598.7	6833.3	6986.8	6924.4	7002.0	6539.7	5083.6
62.5°	5601.6	5594.8	5756.8	6425.0	7248.3	7406.9	7521.7	7243.3	7126.9	6598.7	4921.6
65°	5822.6	5898.5	6153.3	6993.6	7859.1	8041.3	7972.2	7545.3	7248.3	6425.0	4466.1
67.5°	5989.7	6102.7	6544.8	7528.4	8419.3	8547.5	8451.3	7774.7	7104.9	5743.3	3637.7
70°	6087.5	6202.3	6824.8	7973.8	8866.4	8959.2	8733.1	7597.6	6268.1	4159.0	2269.3
71°	6057.1	6197.2	6878.8	8021.1	8972.7	9041.9	8690.9	7270.3	5637.0	3482.4	1655.2
72.5°	5782.1	5913.7	6654.4	7987.3	8844.4	8802.3	8361.9	6484.0	4437.4	2220.4	855.4
75°	4248.4	4390.2	5711.3	6909.2	7894.5	7604.3	6767.5	4550.5	2314.9	680.0	249.7
77.5°	2115.8	2139.4	3544.9	5016.1	5790.6	5502.1	4535.3	2537.6	865.5	200.8	124.9
80°	975.2	982.0	1329.5	2598.3	3501.0	3295.2	2541.0	1251.9	391.4	106.3	97.9
82.5°	664.8	674.9	801.4	1076.5	1520.2	1282.3	1029.2	801.4	224.4	64.1	96.2
85°	121.5	111.4	448.8	570.3	587.2	398.2	356.0	693.5	84.4	37.1	84.4
87.5°	0.0	1.7	62.4	232.8	209.2	92.8	121.5	168.7	8.4	11.8	15.2
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°	2239.0	2239.0	2239.0	2239.0	2239.0	2239.0	2239.0	2239.0	2239.0	2239.0	2239.0
2.5°	2235.6	2217.0	2154.6	2085.4	2023.0	1974.1	1911.6	1882.9	1837.4	1812.1	1810.4
5°	2203.5	2152.9	2044.9	1928.5	1798.6	1690.6	1570.8	1503.3	1425.7	1402.1	1397.0
7.5°	2149.5	2077.0	1918.4	1754.7	1555.6	1365.0	1218.2	1061.3	965.1	924.6	909.4
10°	2115.8	2028.0	1812.1	1567.4	1289.0	1020.8	814.9	647.9	560.2	518.0	507.9
12.5°	2115.8	2021.3	1726.0	1388.6	1019.1	698.5	504.5	408.3	379.6	369.5	369.5
15°	2110.7	2007.8	1643.4	1204.7	754.2	469.0	376.3	356.0	352.6	350.9	349.3
17.5°	2136.0	1984.2	1559.0	1007.3	533.2	369.5	345.9	342.5	339.1	339.1	335.8
20°	2154.6	1970.7	1457.8	798.1	398.2	342.5	332.4	327.3	325.6	323.9	327.3
22.5°	2139.4	1950.4	1332.9	597.3	347.6	325.6	318.9	313.8	310.4	310.4	312.1
25°	2168.1	1931.9	1208.1	450.5	325.6	310.4	303.7	300.3	298.6	297.0	293.6
27.5°	2206.9	1940.3	1059.6	362.8	307.1	295.3	288.5	285.1	283.5	280.1	283.5
30°	2254.1	1938.6	895.9	317.2	290.2	278.4	271.6	270.0	266.6	264.9	266.6
32.5°	2335.1	1982.5	727.2	293.6	271.6	261.5	254.8	253.1	251.4	249.7	248.0
35°	2508.9	2036.5	568.6	275.0	254.8	243.0	237.9	234.5	232.8	231.2	229.5
37.5°	2723.2	2156.3	433.6	258.1	237.9	226.1	221.0	219.3	212.6	210.9	209.2
40°	2991.5	2284.5	334.1	239.6	222.7	210.9	205.8	200.8	192.3	189.0	185.6
42.5°	3325.5	2409.4	275.0	222.7	205.8	197.4	189.0	180.5	173.8	167.0	163.7
45°	3659.6	2554.5	241.3	207.5	192.3	182.2	175.5	163.7	151.9	141.7	140.0
47.5°	3938.0	2606.8	221.0	190.7	178.8	170.4	160.3	145.1	128.2	118.1	116.4
50°	4145.5	2576.4	200.8	173.8	163.7	155.2	141.7	123.2	106.3	96.2	92.8
52.5°	4186.0	2443.1	182.2	160.3	148.5	138.4	123.2	102.9	84.4	74.2	72.6
55°	4157.3	2222.1	167.0	148.5	135.0	119.8	102.9	82.7	65.8	55.7	54.0
57.5°	4098.3	1960.6	150.2	133.3	118.1	102.9	84.4	67.5	48.9	38.8	38.8
60°	3897.5	1604.6	133.3	116.4	101.2	87.7	69.2	48.9	33.7	25.3	23.6
62.5°	3617.4	1233.4	116.4	99.5	87.7	72.6	54.0	35.4	20.2	13.5	13.5
65°	3106.2	863.9	97.9	82.7	72.6	59.1	40.5	21.9	11.8	5.1	5.1
67.5°	2360.4	534.9	81.0	69.2	62.4	47.2	28.7	13.5	5.1	1.7	0.0
70°	1354.8	278.4	64.1	55.7	48.9	35.4	20.2	6.7	3.4	0.0	0.0
71°	946.5	205.8	57.4	48.9	43.9	32.1	16.9	5.1	1.7	0.0	0.0
72.5°	474.1	136.7	48.9	40.5	35.4	25.3	13.5	5.1	1.7	0.0	0.0
75°	168.7	87.7	33.7	27.0	25.3	18.6	8.4	3.4	1.7	0.0	0.0
77.5°	116.4	70.9	23.6	16.9	16.9	11.8	5.1	1.7	1.7	0.0	0.0
80°	106.3	38.8	15.2	10.1	8.4	6.7	3.4	1.7	0.0	0.0	0.0
82.5°	106.3	28.7	8.4	6.7	5.1	3.4	1.7	0.0	0.0	0.0	0.0
85°	74.2	15.2	5.1	5.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	11.8	5.1	3.4	1.7	1.7	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)