

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: P484006

Luminaire Tested: **IFLD-S-SA3A-740-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484006
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-740-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

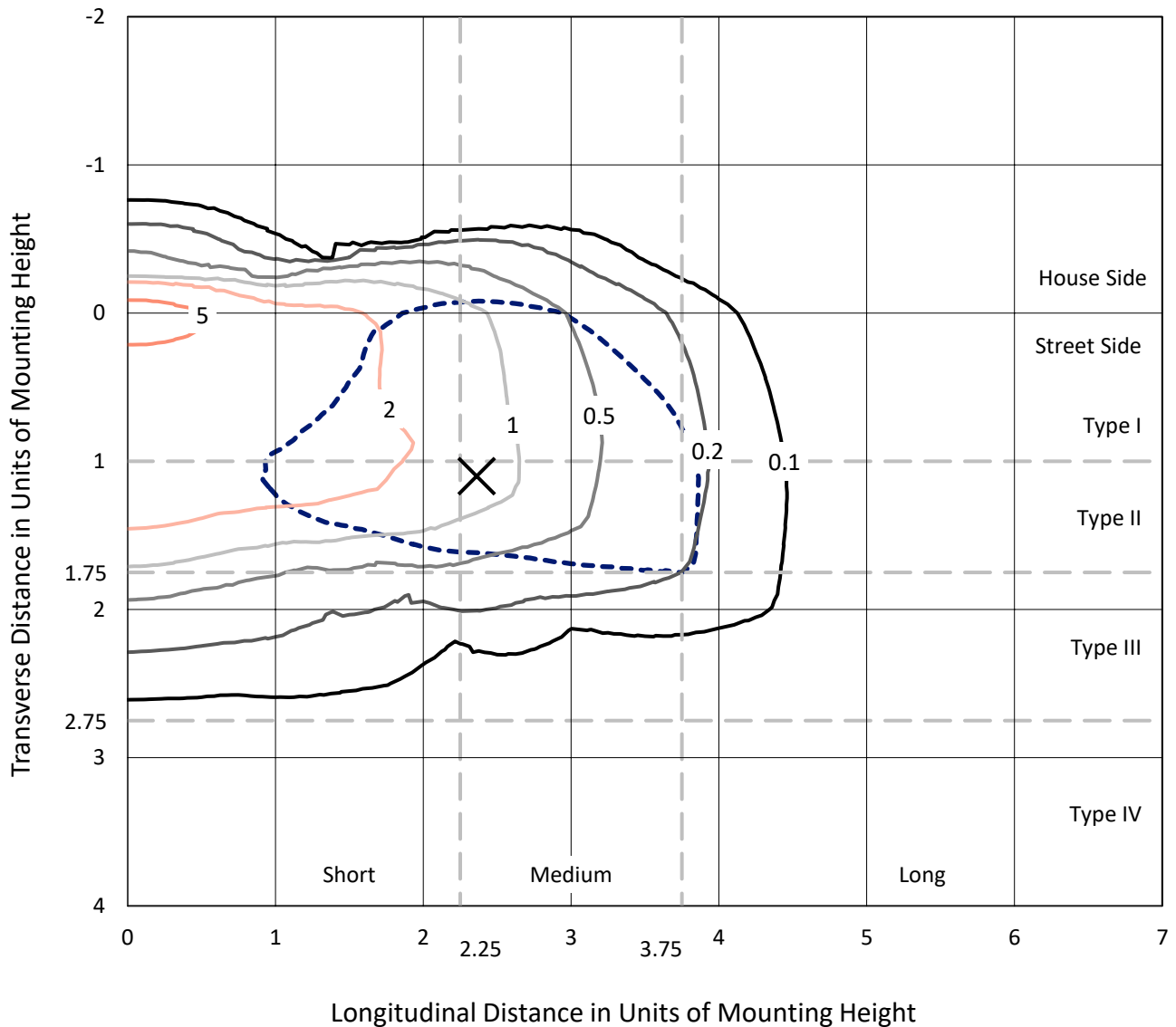
Lumens per Lamp: N/A
Luminaire Lumens: 11324 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

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Iso-Footcandle Lines of Horizontal Illumination

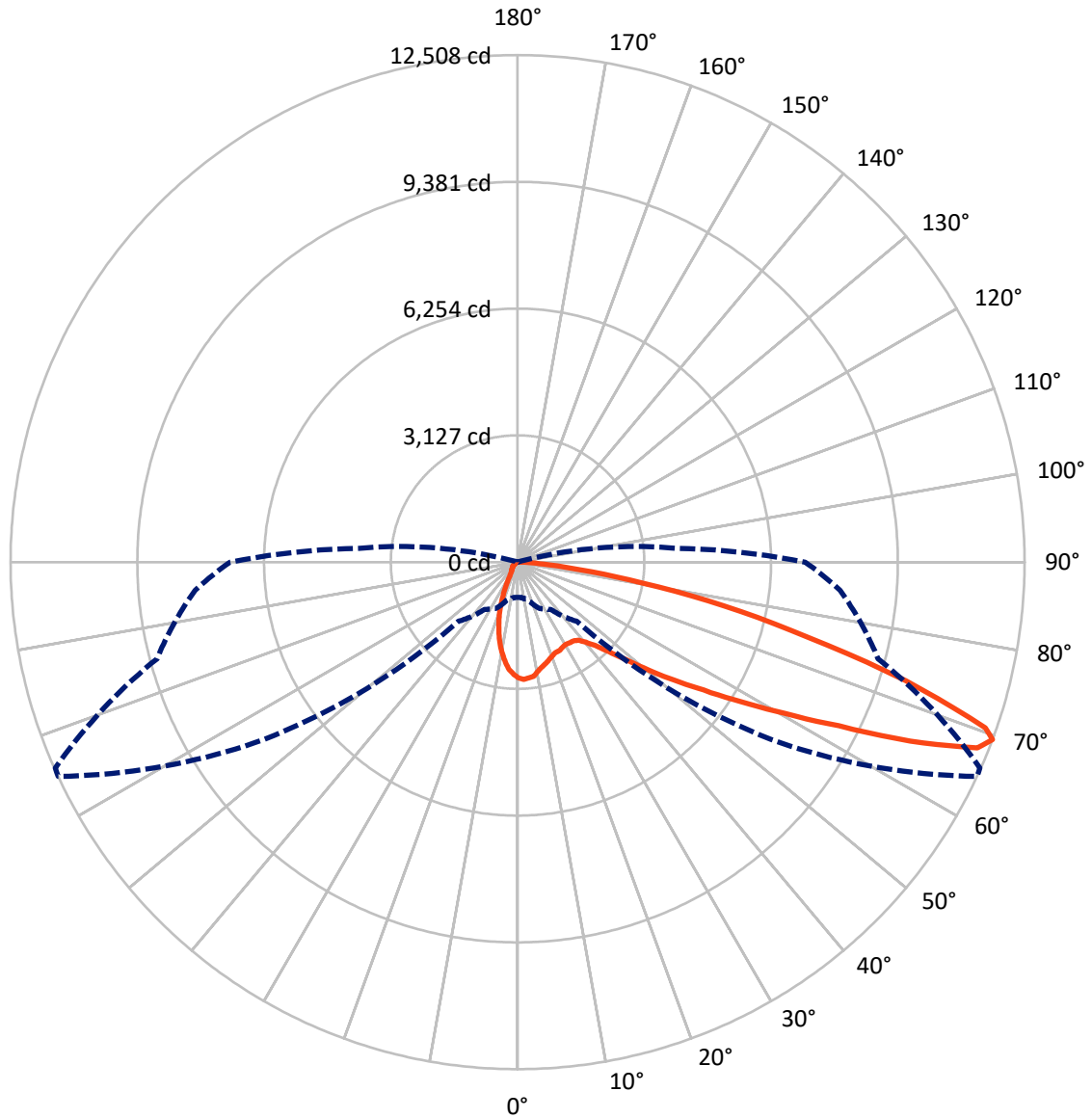
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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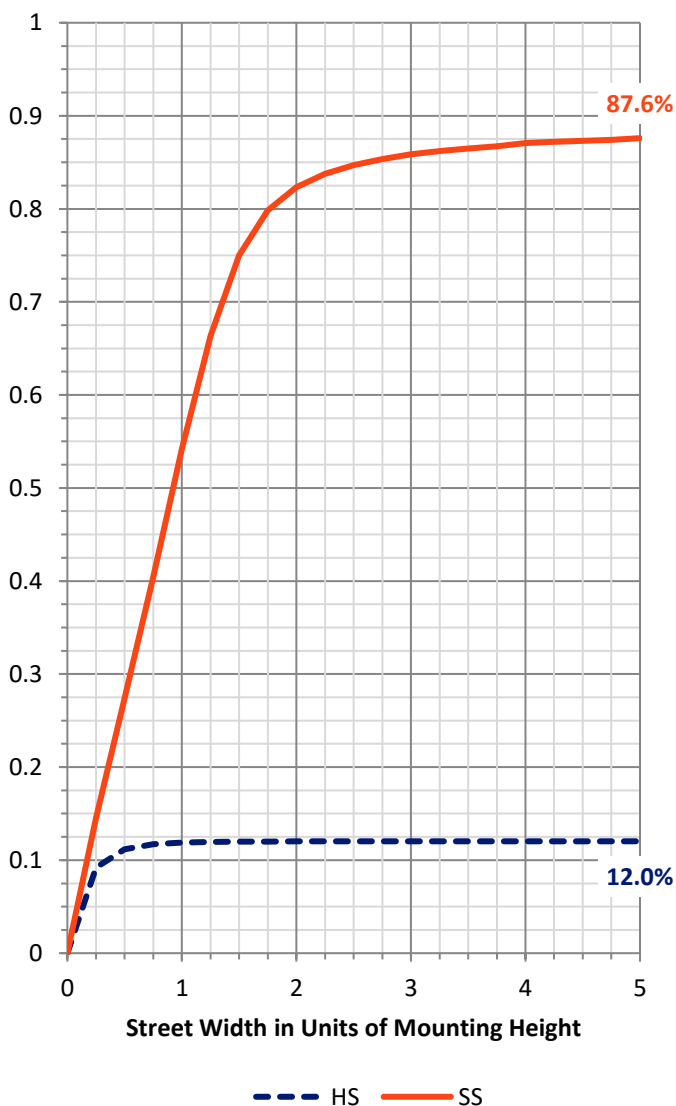
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1373.7	0.0	1373.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	9950.3	0.0	9950.3
	% Fixture	87.9	0.0	87.9
Total	Lumens	11324.0	0.0	11324.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.6	2.1
10°-20°	511.2	4.5
20°-30°	711.7	6.3
30°-40°	1008.5	8.9
40°-50°	1589.4	14.0
50°-60°	2579.1	22.8
60°-70°	2880.3	25.4
70°-80°	1621.9	14.3
80°-90°	188.2	1.7
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°	11324.0	100.0
0°-180°	11324.0	100.0

Coefficient of Utilization



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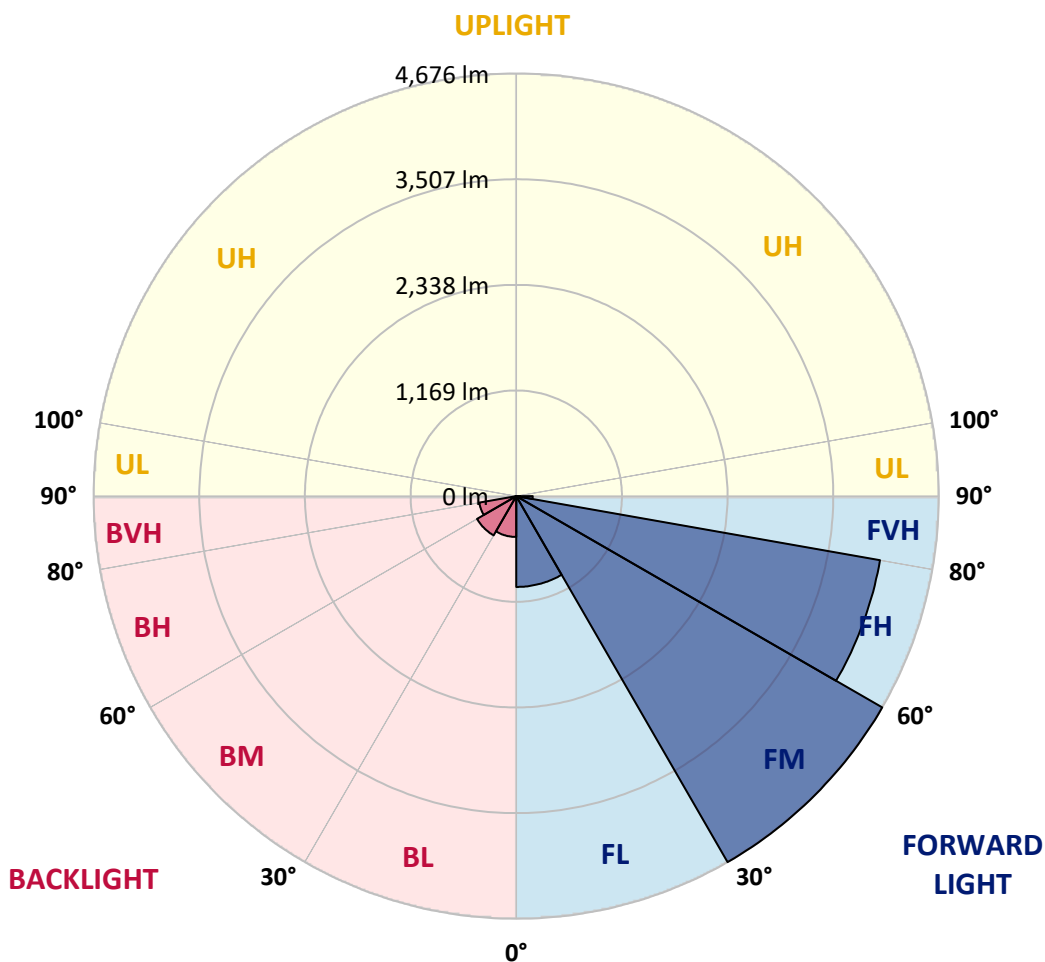
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1004.9	8.9			
FM (30°-60°)	4675.8	41.3			
FH (60°-80°)	4086.6	36.1			G2/5000
FVH (80°-90°)	183.0	1.6			G2/225
BL (0°-30°)	451.6	4.0	B1/500		
BM (30°-60°)	501.2	4.4	B1/1000		
BH (60°-80°)	415.6	3.7	B1/500		G1/500
BVH (80°-90°)	5.2	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0
2.5°	2749.6	2771.0	2777.1	2798.5	2809.2	2855.0	2881.0	2896.3	2888.6	2905.5	2907.0
5°	2554.1	2541.9	2574.0	2596.9	2645.8	2725.2	2806.2	2868.8	2897.8	2925.3	2920.7
7.5°	2344.8	2338.7	2370.8	2422.7	2467.0	2563.3	2693.1	2847.4	2841.3	2908.5	2928.4
10°	2201.2	2207.3	2218.0	2270.0	2335.7	2433.4	2595.4	2738.9	2771.0	2913.1	2952.8
12.5°	2069.9	2080.6	2100.4	2153.9	2230.3	2331.1	2488.4	2656.5	2705.3	2887.1	2966.6
15°	2027.1	2002.7	2042.4	2082.1	2161.5	2251.6	2384.5	2593.8	2615.2	2856.6	2989.5
17.5°	1992.0	1976.7	1995.0	2027.1	2111.1	2184.4	2309.7	2526.6	2566.3	2844.3	2986.4
20°	2002.7	1988.9	1996.5	2021.0	2059.2	2127.9	2244.0	2462.5	2505.2	2787.8	2981.8
22.5°	2033.2	2043.9	2030.1	2036.3	2048.5	2083.6	2208.9	2416.6	2453.3	2777.1	3007.8
25°	2170.7	2152.4	2134.0	2126.4	2054.6	2069.9	2198.2	2413.6	2439.5	2738.9	2986.4
27.5°	2314.3	2299.0	2291.4	2247.1	2149.3	2103.5	2199.7	2370.8	2405.9	2723.7	2960.4
30°	2488.4	2508.3	2477.7	2424.3	2288.3	2175.3	2216.5	2349.4	2398.3	2665.6	2943.6
32.5°	2671.7	2682.4	2697.7	2658.0	2482.3	2283.7	2266.9	2369.3	2372.3	2665.6	2905.5
35°	2879.5	2864.2	2903.9	2907.0	2752.7	2476.2	2363.2	2383.0	2415.1	2653.4	2891.7
37.5°	3058.2	3084.2	3130.0	3203.3	3044.5	2748.1	2512.9	2447.2	2460.9	2709.9	2902.4
40°	3253.7	3279.7	3383.6	3456.9	3366.8	3053.6	2740.5	2596.9	2607.6	2793.9	2957.4
42.5°	3469.1	3519.5	3643.3	3771.6	3747.1	3441.6	3033.8	2816.9	2812.3	3003.2	3070.4
45°	3760.9	3828.1	3962.5	4110.7	4132.1	3886.2	3424.8	3145.3	3160.6	3276.7	3304.1
47.5°	4167.2	4164.2	4295.5	4460.5	4584.3	4347.5	3892.3	3586.7	3585.2	3709.0	3650.9
50°	4559.8	4561.3	4596.5	4787.4	5108.2	4987.5	4471.2	4173.3	4156.5	4217.6	4124.5
52.5°	4741.6	4720.2	4694.2	4924.9	5511.5	5794.1	5204.5	4837.8	4824.1	4787.4	4763.0
55°	4550.6	4558.3	4556.8	4796.6	5723.8	6645.0	6145.4	5569.5	5546.6	5432.1	5465.7
57.5°	3938.1	3913.7	3967.1	4341.4	5480.9	7225.4	7491.2	6492.2	6432.6	6052.3	5975.9
60°	2931.4	2939.1	2983.4	3424.8	4877.6	7347.6	8779.0	7575.3	7318.6	6489.1	6383.7
62.5°	2047.0	2031.7	2048.5	2295.9	3487.5	6858.8	9649.7	8892.0	8644.6	6985.6	6924.5
65°	1464.9	1445.1	1512.3	1663.5	2094.3	5244.2	9773.4	10645.7	10424.2	7778.4	7631.8
67.5°	1054.0	1051.0	1128.9	1403.8	1487.9	3020.0	8856.9	12234.4	12099.9	8719.4	8062.5
69°	872.2	873.8	948.6	1257.2	1420.6	2062.2	7621.1	12507.8	12483.4	9205.2	7981.6
70°	760.7	766.8	853.9	1170.1	1393.1	1695.6	6570.1	12238.9	12214.5	9299.9	7714.3
72.5°	469.0	473.5	588.1	937.9	1324.4	1384.0	3928.9	10013.3	10097.3	8866.1	6646.5
75°	224.6	226.1	308.6	678.2	1277.1	1312.2	2105.0	7388.9	7566.1	7158.2	5193.8
77.5°	119.2	119.2	148.2	360.5	1034.2	1234.3	1249.6	5212.1	5358.7	4526.2	2952.8
80°	59.6	61.1	90.1	187.9	641.6	1209.8	976.1	3108.6	3188.1	1846.8	919.6
82.5°	22.9	24.4	42.8	113.0	333.0	1021.9	857.0	1529.1	1509.2	432.3	224.6
85°	3.1	3.1	15.3	67.2	142.1	450.6	707.3	638.5	617.1	94.7	108.5
87.5°	0.0	0.0	3.1	19.9	42.8	131.4	273.4	175.7	195.5	26.0	53.5
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°	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0	2855.0
2.5°	2899.3	2867.3	2818.4	2771.0	2720.6	2659.5	2592.3	2567.9	2525.1	2522.0	2546.5
5°	2896.3	2844.3	2758.8	2658.0	2514.4	2405.9	2288.3	2202.8	2137.1	2094.3	2105.0
7.5°	2911.6	2848.9	2700.8	2483.8	2299.0	2083.6	1901.8	1776.6	1662.0	1605.5	1599.4
10°	2887.1	2803.1	2586.2	2282.2	2010.3	1709.4	1443.6	1275.5	1104.4	1041.8	1044.9
12.5°	2900.9	2783.2	2462.5	2074.4	1700.2	1309.1	991.4	762.3	601.9	549.9	543.8
15°	2910.0	2740.5	2343.3	1825.5	1356.5	892.1	574.4	432.3	381.9	372.7	371.2
17.5°	2874.9	2688.5	2175.3	1579.5	1005.1	542.3	381.9	352.9	343.7	337.6	334.5
20°	2873.4	2658.0	2030.1	1327.5	670.6	369.7	330.0	319.3	305.5	300.9	300.9
22.5°	2847.4	2593.8	1856.0	1051.0	427.7	317.7	296.3	279.5	264.3	258.2	256.6
25°	2839.8	2519.0	1692.6	789.8	325.4	284.1	262.7	238.3	220.0	210.8	206.2
27.5°	2818.4	2454.8	1527.6	556.0	284.1	253.6	226.1	200.1	178.7	165.0	163.5
30°	2742.0	2387.6	1344.3	384.9	258.2	224.6	194.0	163.5	142.1	132.9	129.8
32.5°	2709.9	2325.0	1144.2	296.3	235.2	198.6	163.5	136.0	119.2	110.0	108.5
35°	2671.7	2233.3	950.2	258.2	213.9	172.6	137.5	114.6	100.8	93.2	93.2
37.5°	2676.3	2160.0	768.4	233.7	190.9	148.2	117.6	97.8	85.5	77.9	77.9
40°	2662.6	2101.9	597.3	212.3	169.6	126.8	99.3	82.5	71.8	64.2	62.6
42.5°	2725.2	2086.7	450.6	194.0	148.2	108.5	85.5	70.3	59.6	50.4	50.4
45°	2830.6	2111.1	351.3	177.2	126.8	93.2	73.3	58.0	47.4	41.2	39.7
47.5°	3111.7	2207.3	275.0	163.5	108.5	81.0	61.1	47.4	38.2	32.1	30.6
50°	3519.5	2422.7	233.7	143.6	91.7	68.7	50.4	36.7	30.6	24.4	22.9
52.5°	4100.0	2784.8	212.3	126.8	76.4	56.5	39.7	29.0	22.9	18.3	16.8
55°	4732.4	3236.9	192.5	106.9	64.2	45.8	32.1	22.9	16.8	12.2	10.7
57.5°	5225.8	3628.0	175.7	88.6	51.9	36.7	24.4	16.8	12.2	7.6	6.1
60°	5765.1	3903.0	154.3	70.3	42.8	27.5	18.3	12.2	9.2	4.6	4.6
62.5°	6321.1	4225.3	126.8	55.0	33.6	21.4	13.7	9.2	6.1	1.5	1.5
65°	7094.1	4477.3	97.8	42.8	26.0	15.3	10.7	7.6	3.1	0.0	0.0
67.5°	7312.5	4353.6	71.8	33.6	18.3	10.7	7.6	4.6	1.5	0.0	0.0
69°	7094.1	3921.3	62.6	29.0	15.3	9.2	6.1	3.1	1.5	0.0	0.0
70°	6695.4	3585.2	55.0	24.4	13.7	9.2	4.6	3.1	1.5	0.0	0.0
72.5°	5600.1	2749.6	42.8	18.3	10.7	7.6	4.6	3.1	0.0	0.0	0.0
75°	4107.7	1698.7	32.1	13.7	9.2	6.1	4.6	3.1	0.0	0.0	0.0
77.5°	2201.2	620.2	22.9	9.2	6.1	4.6	4.6	3.1	0.0	0.0	0.0
80°	603.4	183.3	16.8	6.1	4.6	3.1	3.1	1.5	0.0	0.0	0.0
82.5°	165.0	47.4	10.7	6.1	4.6	3.1	1.5	0.0	0.0	0.0	0.0
85°	88.6	18.3	6.1	4.6	3.1	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	45.8	6.1	4.6	3.1	3.1	1.5	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)