

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: P480770

Luminaire Tested: **IFLD-S-SA3B-727-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480770
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-727-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

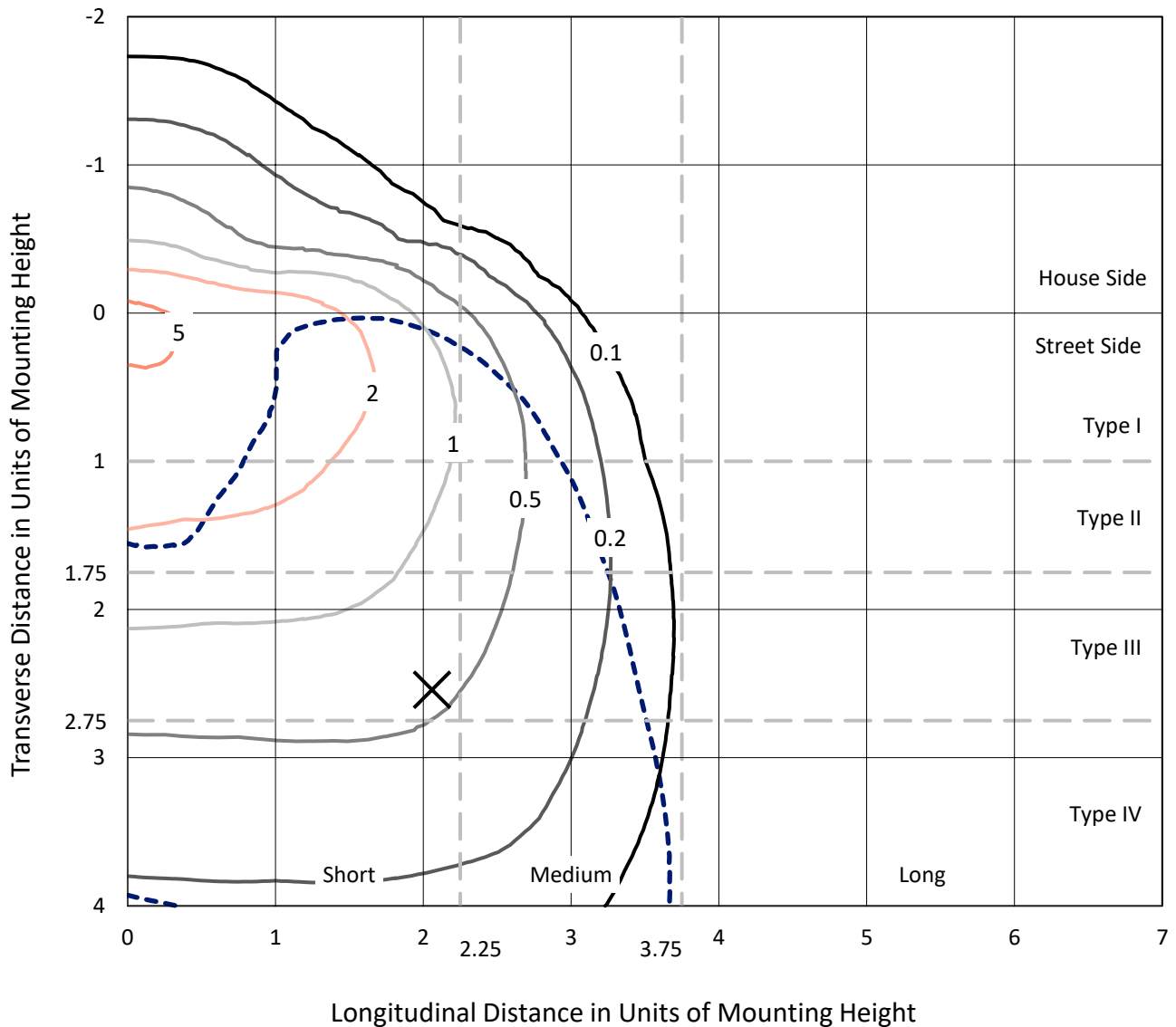
Lumens per Lamp: N/A
Luminaire Lumens: 13764.7 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 122.4
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

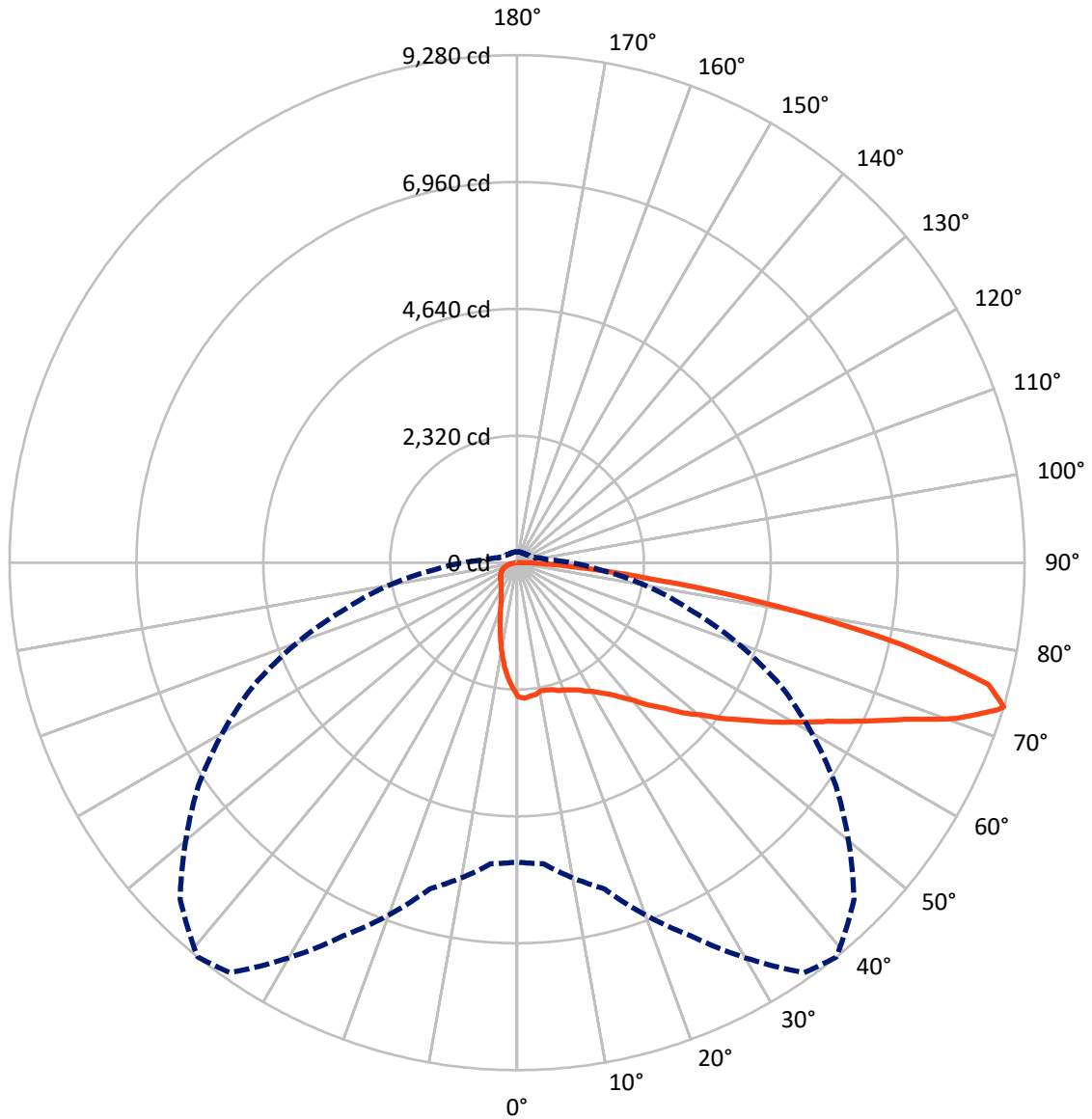
× Max cd
 - - - 1/2 Max cd



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 73-Deg Vertical

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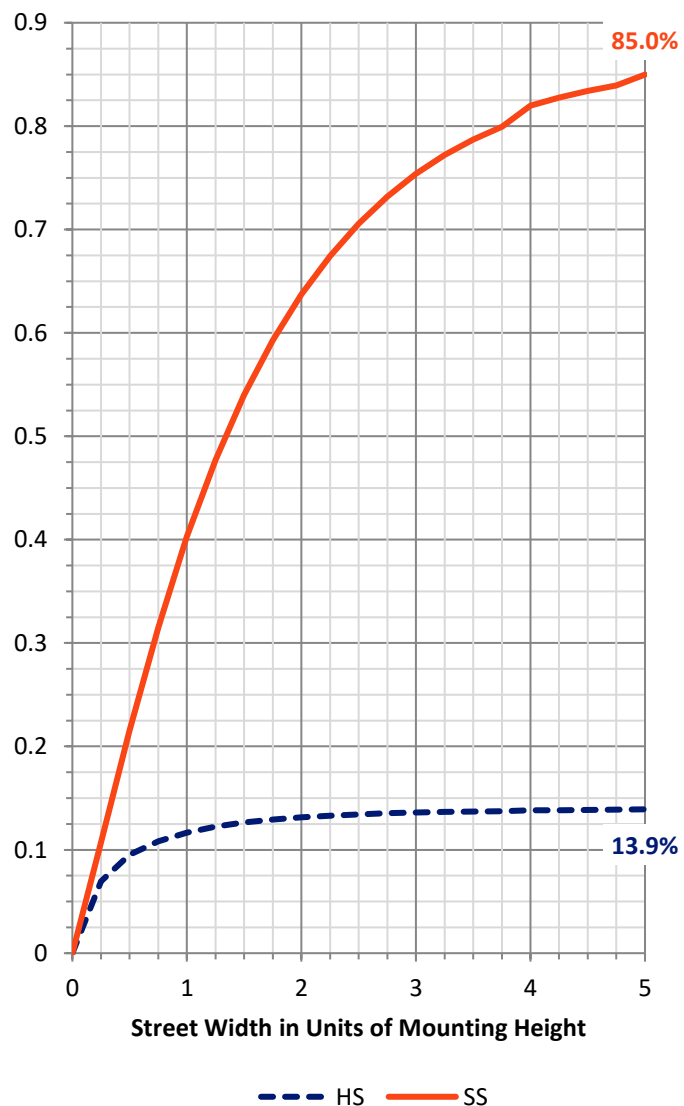
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1934.9	0.0	1934.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	11829.8	0.0	11829.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	13764.7	0.0	13764.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.7	1.5
10°-20°	540.7	3.9
20°-30°	826.3	6.0
30°-40°	1204.7	8.8
40°-50°	1820.4	13.2
50°-60°	2636.1	19.2
60°-70°	3349.3	24.3
70°-80°	2715.1	19.7
80°-90°	459.4	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°	13764.7	100.0
0°-180°	13764.7	100.0

Coefficient of Utilization

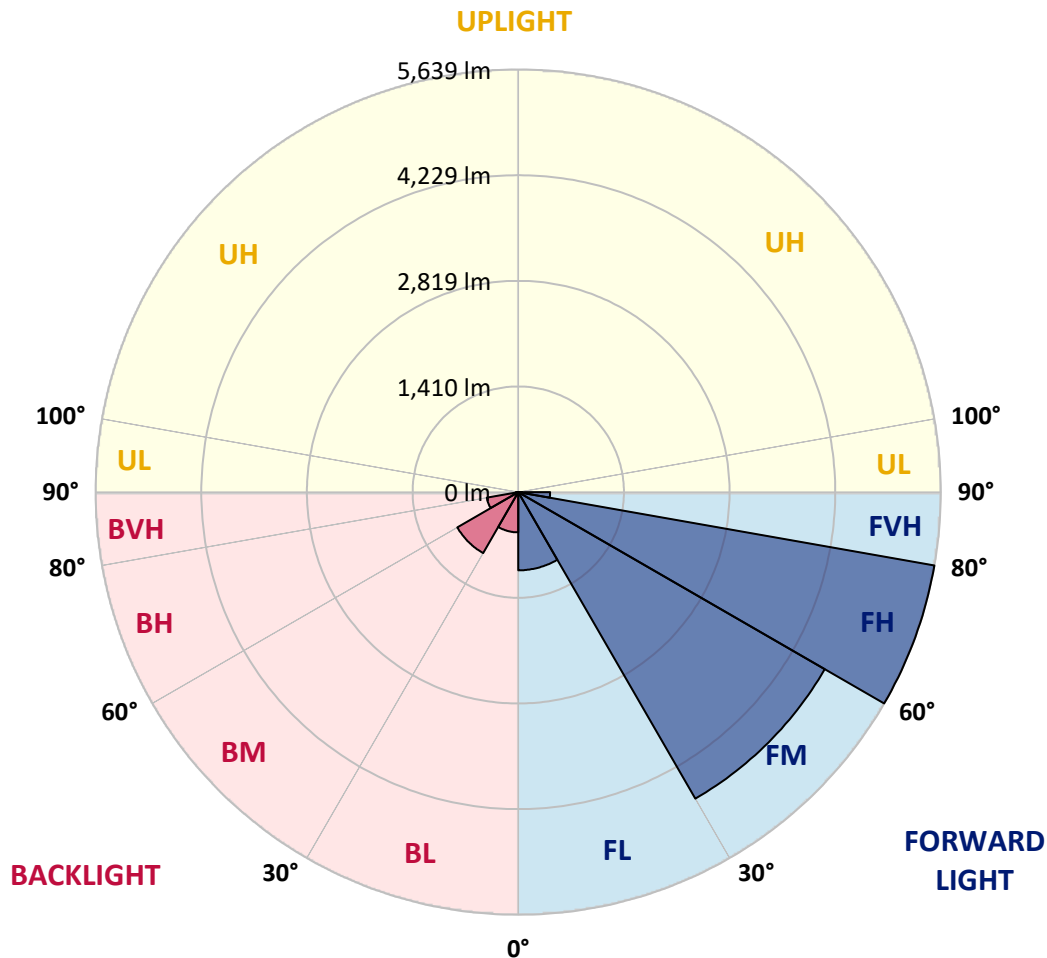


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1043.1	7.6			
FM (30°-60°)	4722.2	34.3			
FH (60°-80°)	5638.9	41.0			G3/7500
FVH (80°-90°)	425.7	3.1			G3/500
BL (0°-30°)	536.6	3.9	B2/1000		
BM (30°-60°)	939.1	6.8	B1/1000		
BH (60°-80°)	425.6	3.1	B1/500		G1/500
BVH (80°-90°)	33.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2450.2	2450.2	2450.2	2450.2	2450.2	2450.2	2450.2	2450.2	2450.2	2450.2	2450.2
2.5°	2508.7	2482.5	2487.2	2477.9	2487.2	2484.1	2479.5	2456.4	2479.5	2456.4	2450.2
5°	2474.8	2474.8	2490.3	2467.1	2470.2	2454.8	2470.2	2453.3	2437.9	2399.4	2388.6
7.5°	2464.1	2462.5	2464.1	2431.7	2447.1	2437.9	2422.5	2404.0	2373.2	2348.6	2313.1
10°	2390.1	2405.5	2388.6	2397.8	2410.2	2382.4	2380.9	2376.3	2362.4	2330.1	2308.5
12.5°	2350.1	2376.3	2385.5	2377.8	2388.6	2391.7	2382.4	2376.3	2359.3	2337.8	2276.2
15°	2367.0	2336.2	2362.4	2413.2	2402.5	2410.2	2411.7	2405.5	2397.8	2357.8	2317.8
17.5°	2371.7	2353.2	2408.6	2419.4	2433.3	2461.0	2442.5	2441.0	2411.7	2384.0	2325.5
20°	2382.4	2374.7	2419.4	2476.4	2477.9	2482.5	2491.8	2468.7	2453.3	2405.5	2316.2
22.5°	2422.5	2448.7	2490.3	2514.9	2528.8	2531.8	2531.8	2485.6	2468.7	2430.2	2359.3
25°	2542.6	2514.9	2573.4	2602.7	2582.7	2578.0	2567.3	2525.7	2507.2	2473.3	2379.4
27.5°	2630.4	2628.9	2662.7	2702.8	2648.9	2659.7	2621.2	2608.8	2567.3	2548.8	2414.8
30°	2750.5	2784.4	2782.9	2795.2	2724.3	2736.7	2687.4	2664.3	2641.2	2652.0	2519.5
32.5°	2904.5	2892.2	2912.2	2903.0	2832.1	2842.9	2784.4	2749.0	2756.7	2789.0	2662.7
35°	3003.1	2990.8	2998.5	2998.5	2976.9	2964.6	2939.9	2893.7	2930.7	2990.8	2822.9
37.5°	3109.3	3124.7	3169.4	3160.2	3132.4	3132.4	3129.4	3097.0	3144.8	3292.6	3078.5
40°	3203.3	3244.9	3272.6	3291.1	3323.4	3323.4	3349.6	3331.1	3417.4	3654.5	3391.2
42.5°	3301.9	3303.4	3454.3	3468.2	3540.6	3571.4	3591.4	3606.8	3768.5	4033.4	3725.4
45°	3428.1	3435.8	3568.3	3674.5	3787.0	3797.7	3873.2	3924.0	4122.7	4447.6	4088.8
47.5°	3594.5	3585.2	3726.9	3896.3	4036.5	4110.4	4201.2	4256.7	4501.5	4897.3	4486.1
50°	3813.1	3785.4	3867.0	4133.5	4298.3	4379.9	4541.6	4634.0	4920.4	5327.0	4758.7
52.5°	4079.6	4033.4	4098.1	4389.1	4573.9	4738.7	4892.7	4995.9	5294.7	5659.7	4960.5
55°	4361.4	4265.9	4284.4	4660.2	4926.6	5082.1	5293.1	5400.9	5705.9	5958.4	5162.2
57.5°	4640.2	4580.1	4543.1	4920.4	5347.0	5496.4	5690.5	5830.6	6089.3	6223.3	5333.2
60°	4874.2	4858.8	4798.8	5323.9	5792.1	5919.9	6123.2	6209.5	6405.0	6468.2	5336.3
62.5°	5066.7	5014.4	5109.9	5648.9	6244.9	6389.6	6612.9	6620.6	6759.3	6620.6	5179.2
65°	5217.7	5220.7	5373.2	6041.6	6768.5	6982.6	7162.7	7142.7	7053.4	6529.8	4808.0
67.5°	5354.7	5413.3	5636.6	6472.8	7441.5	7643.2	7843.4	7578.6	7133.5	6104.7	4082.7
70°	5462.5	5521.1	5992.3	6998.0	8234.6	8530.3	8575.0	7751.0	6765.4	5171.5	3080.1
72.5°	5450.2	5556.5	6194.1	7416.8	8938.4	9194.1	8833.7	7265.9	5636.6	3605.2	1797.2
73°	5476.4	5528.8	6177.1	7533.9	9152.5	9280.3	8713.6	7113.5	5316.2	3234.1	1520.0
75°	4971.3	5148.4	5870.6	7342.9	8923.0	8899.9	8023.6	5927.6	3779.3	1698.7	736.1
77.5°	3677.6	3790.0	4626.3	6038.5	7324.4	7176.6	6052.4	3788.5	1794.2	629.9	397.3
80°	1797.2	1885.0	2451.7	3486.7	4789.5	4801.9	3756.2	1971.3	768.5	355.8	271.0
82.5°	897.8	950.2	1178.1	1532.3	2356.3	2468.7	1905.0	1121.2	475.9	201.7	154.0
85°	586.8	623.7	725.4	750.0	999.5	1054.9	887.1	874.7	309.5	109.3	124.7
87.5°	389.6	395.8	445.1	378.9	400.4	385.0	428.1	551.3	90.9	46.2	33.9
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°	2450.2	2450.2	2450.2	2450.2	2450.2	2450.2	2450.2	2450.2	2450.2	2450.2	2450.2
2.5°	2442.5	2420.9	2397.8	2365.5	2342.4	2307.0	2274.6	2260.8	2257.7	2259.2	2243.8
5°	2379.4	2348.6	2302.4	2236.1	2197.6	2139.1	2089.8	2063.7	2035.9	2040.6	2028.2
7.5°	2291.6	2257.7	2186.9	2109.9	2014.4	1931.2	1885.0	1820.3	1783.4	1755.6	1771.0
10°	2263.9	2205.3	2099.1	1992.8	1845.0	1735.6	1629.4	1555.4	1504.6	1455.3	1476.9
12.5°	2250.0	2191.5	2043.6	1886.6	1695.6	1529.3	1379.9	1289.0	1216.6	1173.5	1190.5
15°	2237.7	2165.3	1991.3	1769.5	1555.4	1336.8	1168.9	1048.8	979.5	937.9	942.5
17.5°	2254.6	2151.4	1914.3	1655.5	1401.4	1167.4	981.0	856.3	785.4	759.2	753.1
20°	2237.7	2136.0	1838.8	1541.6	1247.4	1005.6	827.0	723.8	674.5	653.0	648.4
22.5°	2243.8	2099.1	1760.3	1415.3	1104.2	870.1	723.8	645.3	606.8	596.0	599.1
25°	2273.1	2077.5	1681.7	1276.7	962.5	770.0	657.6	597.5	569.8	559.0	562.1
27.5°	2294.7	2096.0	1610.9	1145.8	842.4	680.7	602.2	562.1	543.6	535.9	534.4
30°	2348.6	2106.8	1541.6	1028.7	743.8	622.2	563.7	531.3	519.0	514.4	512.8
32.5°	2428.6	2126.8	1461.5	920.9	671.5	566.7	532.9	505.1	502.1	497.4	499.0
35°	2559.6	2196.1	1372.2	828.5	602.2	529.8	500.5	482.0	482.0	482.0	486.7
37.5°	2747.4	2293.1	1292.1	740.8	557.5	497.4	472.8	466.6	463.6	468.2	471.3
40°	2989.2	2410.2	1227.4	671.5	519.0	475.9	454.3	451.2	449.7	448.2	451.2
42.5°	3254.1	2559.6	1172.0	617.6	491.3	452.8	437.4	434.3	428.1	431.2	435.8
45°	3517.5	2744.4	1122.7	574.4	472.8	440.5	418.9	417.4	414.3	412.7	420.4
47.5°	3810.1	2926.1	1107.3	548.3	458.9	422.0	406.6	405.0	395.8	394.3	400.4
50°	4038.0	3060.1	1124.2	535.9	438.9	408.1	397.3	389.6	381.9	374.2	374.2
52.5°	4195.1	3152.5	1136.6	526.7	428.1	389.6	375.8	372.7	365.0	357.3	354.2
55°	4336.8	3207.9	1139.6	528.2	417.4	368.1	358.8	357.3	352.7	340.3	337.3
57.5°	4384.5	3184.8	1078.0	514.4	411.2	354.2	341.9	345.0	338.8	328.0	326.5
60°	4379.9	3024.6	937.9	495.9	397.3	338.8	323.4	332.6	332.6	320.3	318.8
62.5°	4113.5	2655.0	766.9	460.5	381.9	323.4	306.5	320.3	324.9	317.2	315.7
65°	3560.6	2162.2	640.7	425.1	358.8	306.5	289.5	304.9	312.6	309.5	308.0
67.5°	2946.1	1654.0	532.9	378.9	329.6	283.4	269.5	280.3	284.9	286.4	288.0
70°	2082.1	1101.1	445.1	328.0	289.5	258.7	243.3	244.9	243.3	247.9	247.9
72.5°	1131.9	634.5	361.9	278.7	249.5	224.8	214.1	206.4	206.4	204.8	204.8
73°	968.7	569.8	345.0	271.0	238.7	218.7	206.4	200.2	200.2	198.7	197.1
75°	543.6	417.4	295.7	232.5	206.4	191.0	181.7	172.5	170.9	170.9	170.9
77.5°	357.3	324.9	235.6	186.3	166.3	152.5	149.4	140.1	140.1	140.1	138.6
80°	268.0	255.6	181.7	141.7	127.8	117.0	114.0	107.8	106.3	100.1	101.6
82.5°	178.6	201.7	132.4	100.1	86.2	80.1	80.1	78.5	73.9	66.2	66.2
85°	141.7	164.8	95.5	61.6	50.8	43.1	44.7	43.1	41.6	33.9	32.3
87.5°	26.2	66.2	27.7	16.9	12.3	7.7	7.7	4.6	3.1	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)