

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: P480260

Luminaire Tested: **IFLD-S-SA2D-830-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480260  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-830-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

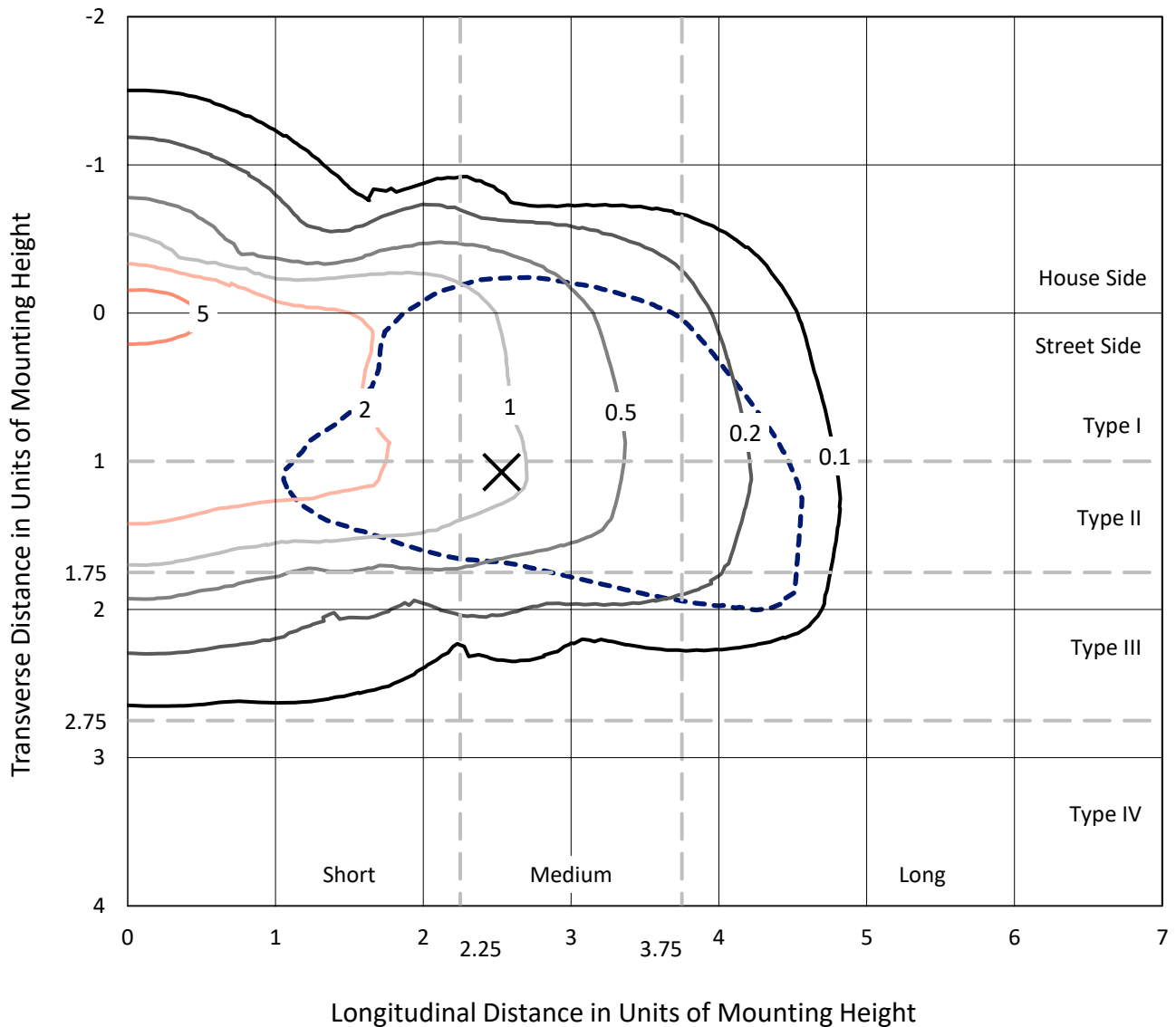
Lumens per Lamp: N/A  
Luminaire Lumens: 12390.6 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 123.9  
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

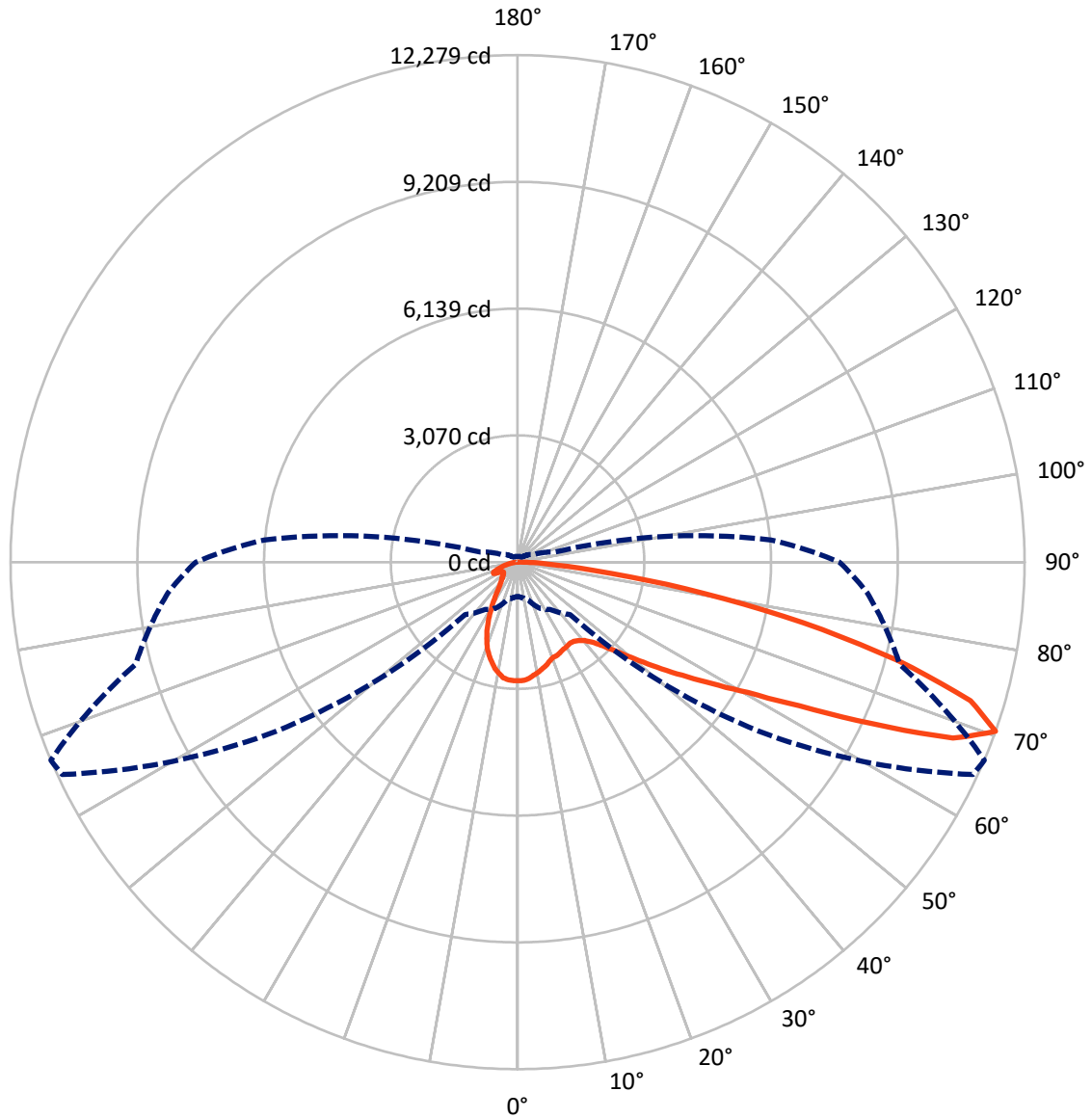
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.2 fc  
 Type III - Medium - N/A

REPORT NUMBER: P480260  
CATALOG NUMBER: IFLD-S-SA2D-830-U-SL2

### Luminous Intensity Polar Plot



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

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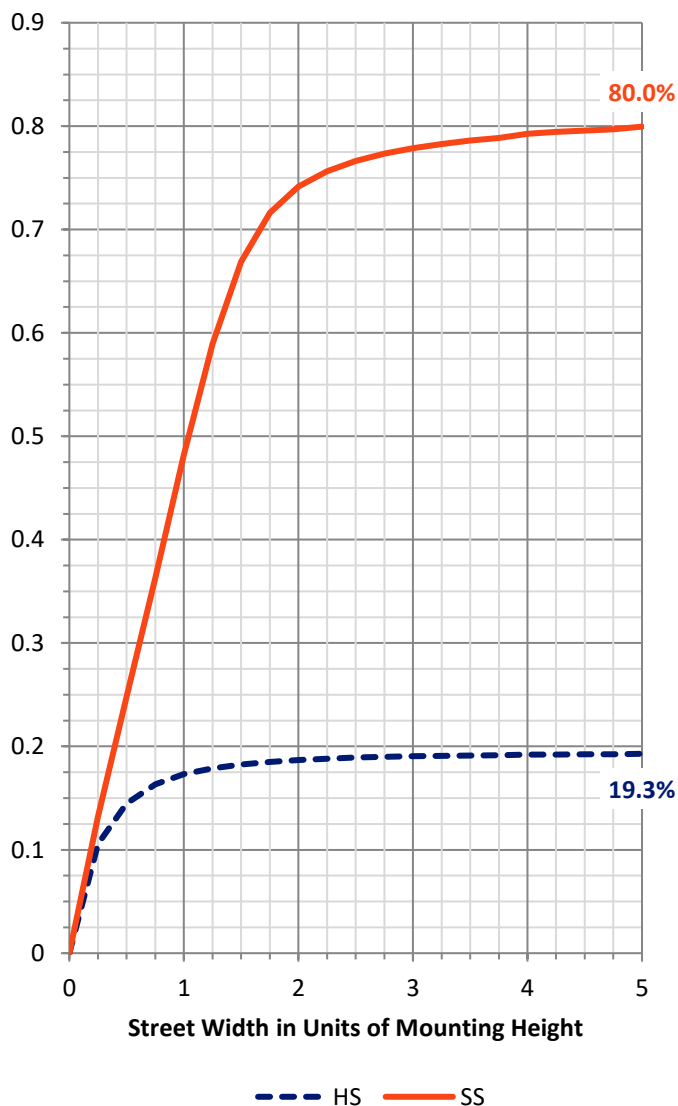
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2413.2	0.0	2413.2
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	9977.4	0.0	9977.4
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	12390.6	0.0	12390.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.3	2.0
10°-20°	599.4	4.8
20°-30°	809.4	6.5
30°-40°	1083.1	8.7
40°-50°	1592.7	12.9
50°-60°	2482.6	20.0
60°-70°	3058.1	24.7
70°-80°	2160.8	17.4
80°-90°	354.2	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°	12390.6	100.0
0°-180°	12390.6	100.0

**Coefficient of Utilization**

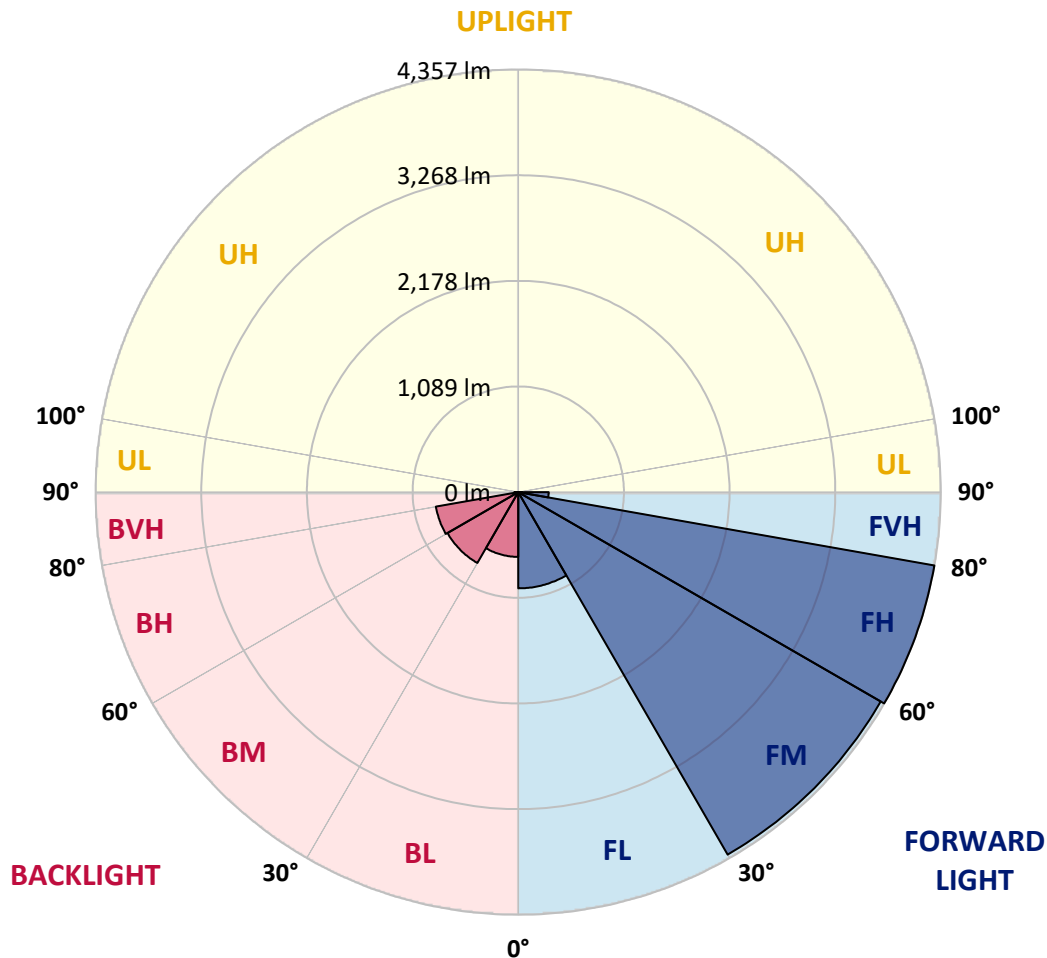


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 CATALOG NUMBER: IFLD-S-SA2D-830-U-SL2

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	991.8	8.0			
FM (30°-60°)	4315.4	34.8			
FH (60°-80°)	4357.0	35.2			G2/5000
FVH (80°-90°)	313.3	2.5			G3/500
BL (0°-30°)	667.3	5.4	B2/1000		
BM (30°-60°)	843.0	6.8	B1/1000		
BH (60°-80°)	862.0	7.0	B2/1000		G2/1000
BVH (80°-90°)	40.9	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2868.4	2868.4	2868.4	2868.4	2868.4	2868.4	2868.4	2868.4	2868.4	2868.4	2868.4
2.5°	2670.8	2701.0	2712.0	2728.5	2771.0	2802.5	2821.7	2843.7	2869.8	2891.7	2905.4
5°	2484.3	2500.7	2526.8	2544.6	2598.1	2683.2	2740.8	2834.1	2831.3	2865.6	2917.8
7.5°	2303.2	2319.7	2332.0	2367.7	2444.5	2521.3	2627.0	2777.8	2766.9	2846.4	2927.4
10°	2190.7	2178.4	2182.5	2242.9	2303.2	2389.6	2522.7	2676.3	2716.1	2839.6	2954.8
12.5°	2085.1	2071.4	2104.3	2142.7	2216.8	2295.0	2454.1	2592.7	2653.0	2814.9	2967.2
15°	2019.3	2009.7	2050.8	2067.3	2155.1	2248.3	2360.8	2529.6	2595.4	2784.7	2947.9
17.5°	1982.2	1990.4	2005.5	2041.2	2097.4	2177.0	2300.5	2487.0	2515.8	2747.7	2943.8
20°	1989.1	1998.7	2000.1	2015.1	2053.5	2115.3	2241.5	2441.8	2461.0	2740.8	2954.8
22.5°	2043.9	2030.2	2035.7	2026.1	2037.1	2085.1	2196.2	2381.4	2455.5	2683.2	2931.5
25°	2126.3	2107.0	2104.3	2071.4	2050.8	2064.5	2188.0	2366.3	2414.3	2665.4	2930.1
27.5°	2271.7	2242.9	2242.9	2193.5	2109.8	2087.8	2164.7	2341.6	2384.1	2648.9	2898.6
30°	2411.6	2411.6	2413.0	2343.0	2249.7	2141.3	2174.3	2332.0	2359.5	2599.5	2856.0
32.5°	2581.7	2577.6	2570.7	2536.4	2392.4	2230.5	2220.9	2319.7	2333.4	2583.1	2843.7
35°	2747.7	2736.7	2790.2	2760.0	2613.2	2404.7	2268.9	2325.2	2355.3	2558.4	2805.3
37.5°	2872.5	2879.4	2990.5	3009.7	2883.5	2602.3	2404.7	2380.0	2408.8	2594.0	2805.3
40°	3034.4	3061.8	3166.1	3230.5	3153.7	2862.9	2620.1	2471.9	2492.5	2673.6	2865.6
42.5°	3247.0	3270.3	3403.4	3487.1	3465.1	3194.9	2832.7	2664.0	2647.5	2806.7	2956.2
45°	3528.2	3532.3	3666.8	3782.0	3827.3	3541.9	3170.2	2906.8	2893.1	3035.7	3122.2
47.5°	3862.9	3858.8	3942.5	4065.9	4188.0	3956.2	3558.4	3275.8	3226.4	3363.6	3397.9
50°	4186.7	4168.8	4188.0	4345.8	4580.4	4474.7	4030.3	3727.1	3677.7	3753.2	3812.2
52.5°	4365.0	4386.9	4334.8	4543.3	4997.4	5087.9	4655.8	4266.2	4223.7	4260.7	4363.6
55°	4240.2	4285.4	4251.1	4448.7	5179.8	5835.5	5465.2	4890.4	4835.5	4821.8	4990.5
57.5°	3709.3	3791.6	3798.5	4111.2	5116.7	6414.4	6603.7	5627.0	5544.7	5404.8	5579.0
60°	2847.8	2930.1	2993.2	3363.6	4576.2	6760.1	7923.4	6675.1	6403.5	6041.3	6145.6
62.5°	1995.9	2052.2	2115.3	2343.0	3528.2	6557.1	9064.7	8151.1	7650.4	6712.1	6842.4
65°	1454.1	1498.0	1562.5	1696.9	2167.4	5425.4	9594.2	9904.2	9429.6	7565.3	7548.9
67.5°	1094.7	1122.1	1207.2	1422.5	1502.1	3351.3	9045.5	11756.1	11372.0	8513.2	8116.8
70°	828.6	851.9	931.4	1226.4	1403.3	1797.0	7136.0	12169.0	12278.8	9576.4	8498.2
72.5°	570.7	596.7	685.9	1022.0	1336.1	1425.3	4478.9	11055.1	11470.8	10014.0	8089.4
75°	349.8	367.6	419.8	775.1	1326.5	1393.7	2465.1	9059.2	9499.6	9252.6	7077.0
77.5°	246.9	245.5	255.2	454.1	1149.5	1402.0	1519.9	6638.0	7066.0	6819.1	4802.6
80°	179.7	181.1	190.7	271.6	780.5	1425.3	1197.6	4445.9	4573.5	3555.6	1894.4
82.5°	108.4	113.9	137.2	183.8	469.1	1286.7	1107.0	2470.6	2311.4	1141.3	521.3
85°	57.6	57.6	80.9	116.6	249.7	960.2	1065.9	1175.6	984.9	353.9	193.4
87.5°	13.7	13.7	23.3	46.6	100.1	459.5	727.0	467.8	374.5	119.3	79.6
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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 CATALOG NUMBER: IFLD-S-SA2D-830-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2868.4	2868.4	2868.4	2868.4	2868.4	2868.4	2868.4	2868.4	2868.4	2868.4	2868.4
2.5°	2899.9	2883.5	2904.1	2862.9	2830.0	2831.3	2780.6	2777.8	2771.0	2735.3	2747.7
5°	2932.9	2919.1	2895.8	2850.6	2777.8	2705.1	2661.2	2605.0	2581.7	2569.3	2574.8
7.5°	2964.4	2939.7	2872.5	2809.4	2696.9	2559.7	2480.2	2404.7	2308.7	2297.7	2278.5
10°	2972.6	2920.5	2834.1	2699.7	2550.1	2397.9	2216.8	2076.9	2002.8	1945.2	1923.2
12.5°	2960.3	2938.3	2772.4	2599.5	2373.2	2134.5	1923.2	1725.7	1588.5	1517.2	1498.0
15°	2958.9	2920.5	2703.8	2447.2	2157.8	1846.4	1546.0	1308.7	1164.6	1105.7	1105.7
17.5°	2960.3	2868.4	2622.8	2293.6	1904.0	1482.9	1152.3	957.5	877.9	869.7	876.6
20°	2932.9	2830.0	2537.8	2112.5	1585.8	1113.9	836.8	757.2	757.2	768.2	772.3
22.5°	2908.2	2772.4	2403.4	1888.9	1262.0	806.6	680.4	657.1	683.1	702.3	710.6
25°	2873.9	2724.3	2266.2	1657.1	960.2	650.2	591.2	596.7	621.4	655.7	653.0
27.5°	2824.5	2640.7	2102.9	1388.2	714.7	561.1	546.0	548.7	574.8	589.9	587.1
30°	2768.2	2555.6	1952.0	1120.7	566.5	514.4	513.0	519.9	524.0	532.2	530.9
32.5°	2696.9	2443.1	1791.5	871.1	510.3	488.4	482.9	478.8	482.9	481.5	477.4
35°	2646.2	2382.8	1628.3	663.9	478.8	465.0	460.9	454.1	448.6	440.3	439.0
37.5°	2632.4	2322.4	1456.8	541.9	454.1	447.2	433.5	421.1	414.3	410.2	407.4
40°	2624.2	2282.6	1289.5	476.0	433.5	426.6	410.2	393.7	386.8	382.7	384.1
42.5°	2653.0	2260.7	1119.4	443.1	415.6	403.3	385.5	366.3	364.9	362.1	366.3
45°	2754.5	2288.1	961.6	419.8	397.8	377.2	353.9	344.3	342.9	340.2	342.9
47.5°	2985.0	2356.7	827.2	404.7	378.6	360.8	336.1	322.4	321.0	319.6	319.6
50°	3303.2	2568.0	714.7	386.8	366.3	341.6	318.3	303.2	300.4	294.9	294.9
52.5°	3802.6	2923.3	647.5	377.2	344.3	323.7	299.0	282.6	275.7	270.2	270.2
55°	4365.0	3363.6	635.1	360.8	321.0	301.8	279.8	263.4	256.5	249.7	246.9
57.5°	5005.6	3946.6	722.9	349.8	304.5	279.8	255.2	240.1	234.6	227.7	225.0
60°	5602.3	4528.2	995.9	333.3	289.4	259.3	234.6	219.5	212.6	205.8	205.8
62.5°	6292.3	5248.4	1458.2	333.3	275.7	237.3	212.6	201.7	197.5	190.7	189.3
65°	7108.5	5993.3	1795.7	353.9	271.6	218.1	192.0	181.1	177.0	172.8	171.5
67.5°	7730.0	6421.3	1544.6	408.8	289.4	201.7	171.5	164.6	161.9	157.8	155.0
70°	7795.8	6160.6	931.4	441.7	307.3	185.2	153.6	146.8	146.8	142.7	139.9
72.5°	7204.6	5466.5	626.9	393.7	278.5	166.0	135.8	130.3	127.6	124.8	123.5
75°	6029.0	4636.6	495.2	314.1	214.0	137.2	118.0	112.5	108.4	107.0	104.3
77.5°	4049.5	3013.8	366.3	245.5	157.8	111.1	98.8	93.3	89.2	87.8	83.7
80°	1555.6	1148.2	235.9	178.3	111.1	87.8	78.2	72.7	70.0	65.8	63.1
82.5°	458.2	371.8	131.7	109.7	71.3	60.4	56.2	52.1	48.0	43.9	42.5
85°	189.3	170.1	80.9	57.6	43.9	35.7	32.9	28.8	24.7	21.9	19.2
87.5°	87.8	72.7	37.0	21.9	15.1	8.2	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)