

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: P484745

Luminaire Tested: **IFLD-S-SA2D-735-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484745  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-735-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

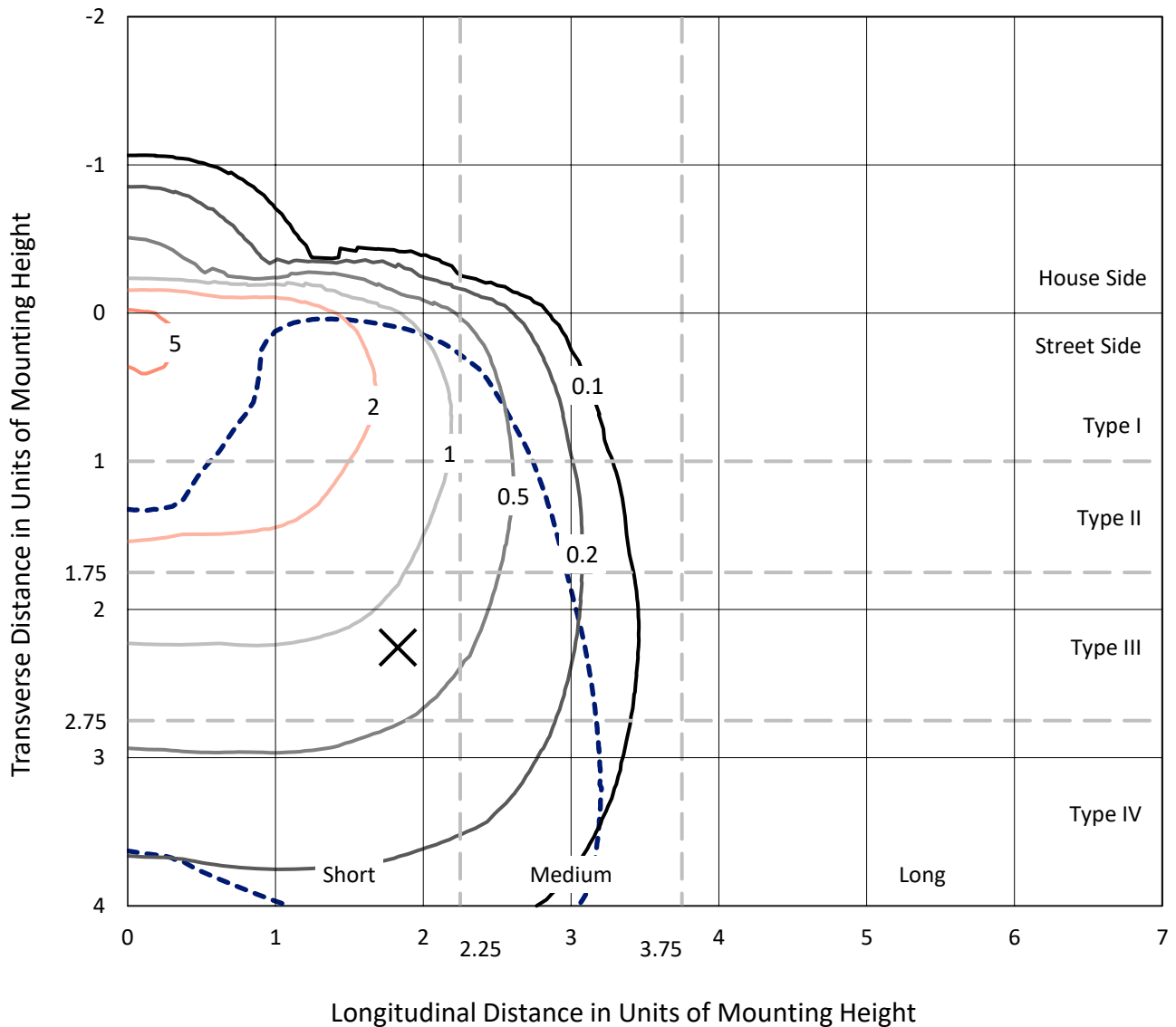
Lumens per Lamp: N/A  
Luminaire Lumens: 12743.1 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 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

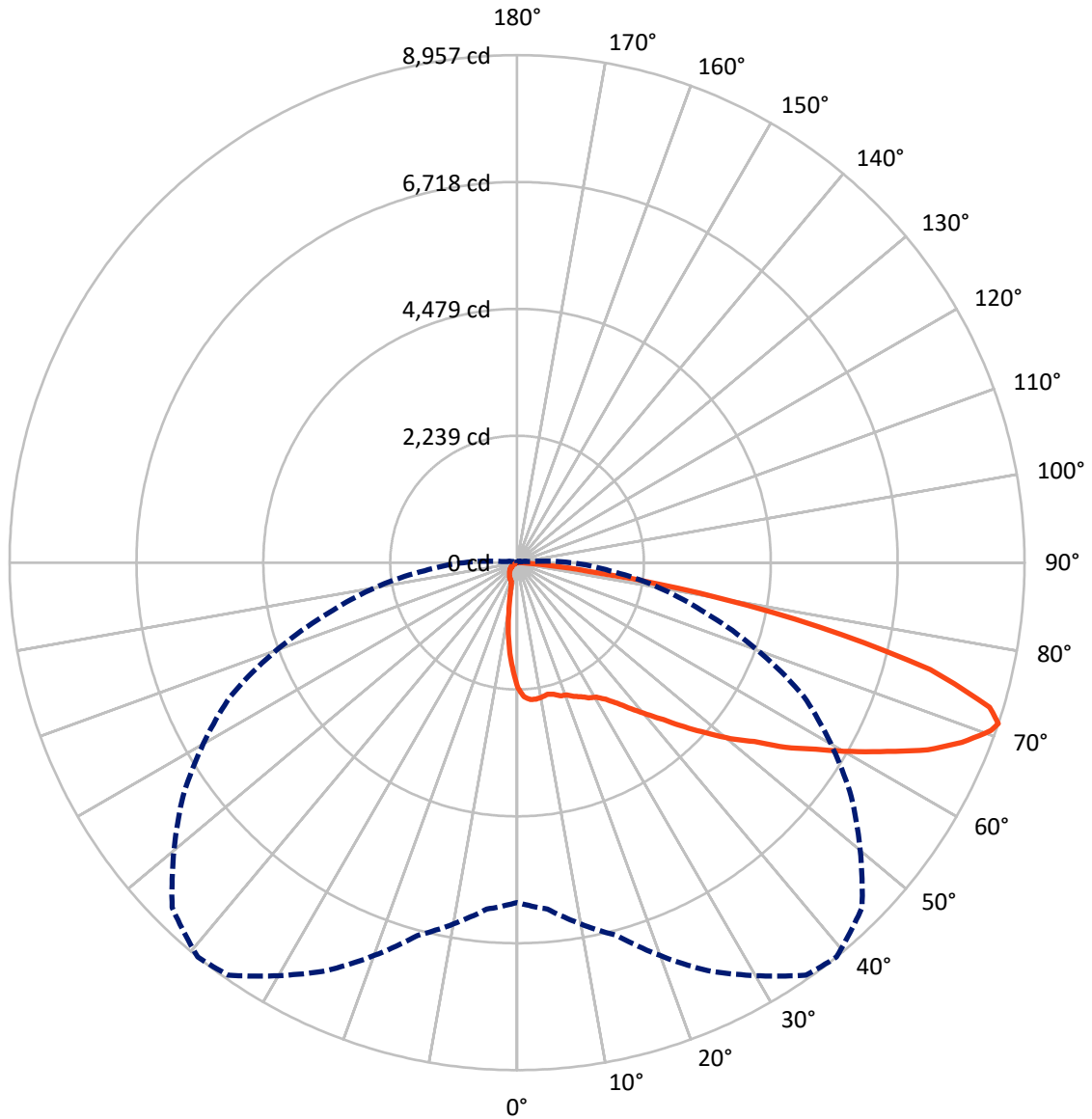
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 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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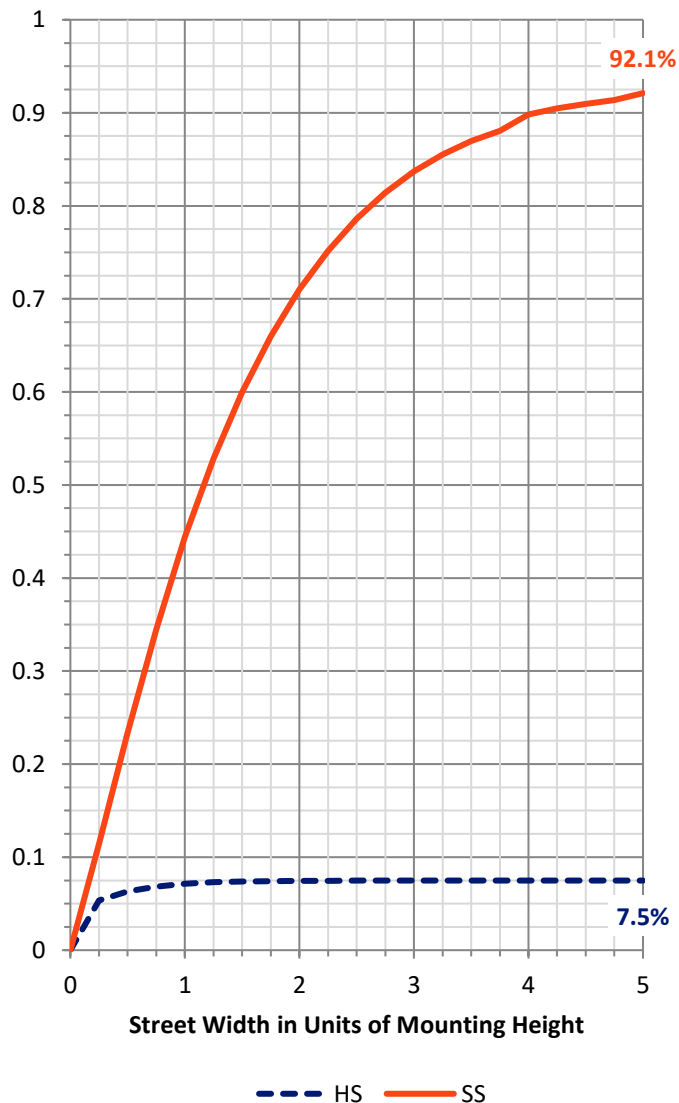
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	959.4	0.0	959.4
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	11783.7	0.0	11783.7
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	12743.1	0.0	12743.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.4	1.5
10°-20°	456.4	3.6
20°-30°	732.7	5.7
30°-40°	1121.6	8.8
40°-50°	1800.4	14.1
50°-60°	2644.5	20.8
60°-70°	3330.7	26.1
70°-80°	2222.8	17.4
80°-90°	248.4	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°	12743.1	100.0
0°-180°	12743.1	100.0

**Coefficient of Utilization**



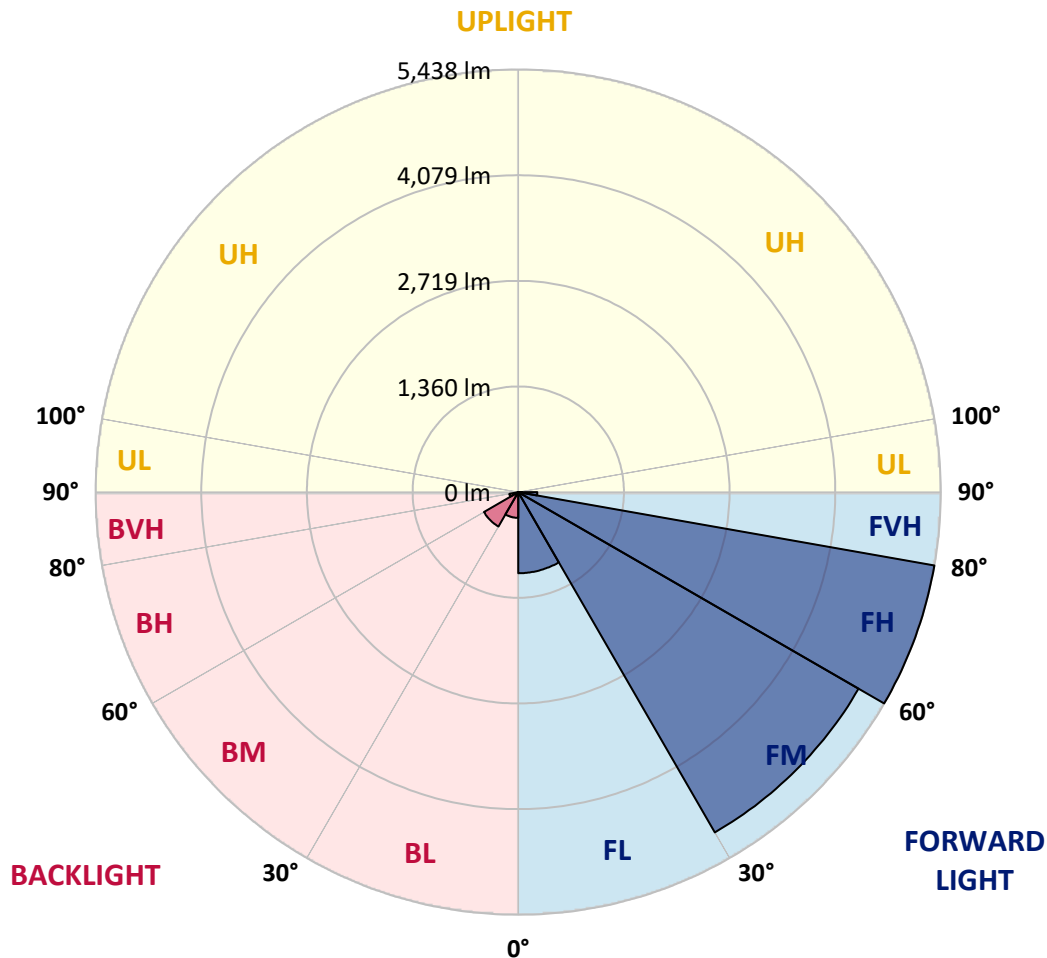
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1043.4	8.2			
FM (30°-60°)	5056.6	39.7			
FH (60°-80°)	5438.0	42.7			G3/7500
FVH (80°-90°)	245.7	1.9			G3/500
BL (0°-30°)	331.2	2.6	B1/500		
BM (30°-60°)	509.9	4.0	B1/1000		
BH (60°-80°)	115.5	0.9	B1/500		G1/500
BVH (80°-90°)	2.7	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°	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0
2.5°	2390.2	2413.6	2390.2	2380.1	2370.1	2371.8	2345.0	2350.1	2318.3	2276.5	2243.1
5°	2465.4	2497.1	2472.1	2460.4	2458.7	2426.9	2413.6	2381.8	2343.4	2278.2	2238.1
7.5°	2458.7	2452.0	2463.7	2453.7	2432.0	2432.0	2416.9	2371.8	2333.3	2259.8	2191.3
10°	2408.6	2428.6	2418.6	2406.9	2411.9	2413.6	2385.2	2353.4	2341.7	2268.2	2156.2
12.5°	2403.5	2370.1	2406.9	2408.6	2386.8	2385.2	2381.8	2373.5	2336.7	2269.8	2164.5
15°	2386.8	2373.5	2410.2	2411.9	2416.9	2411.9	2416.9	2410.2	2373.5	2335.0	2201.3
17.5°	2400.2	2385.2	2437.0	2462.0	2450.3	2473.7	2465.4	2435.3	2403.5	2358.4	2236.4
20°	2403.5	2425.3	2482.1	2492.1	2528.9	2490.5	2488.8	2457.0	2437.0	2388.5	2258.1
22.5°	2465.4	2475.4	2545.6	2567.3	2569.0	2564.0	2522.2	2485.4	2477.1	2416.9	2263.1
25°	2559.0	2594.1	2625.8	2639.2	2644.2	2620.8	2577.4	2530.6	2510.5	2472.1	2315.0
27.5°	2724.5	2702.7	2731.1	2751.2	2694.4	2702.7	2647.6	2607.5	2579.0	2545.6	2375.1
30°	2871.6	2851.5	2853.2	2849.8	2801.4	2756.2	2741.2	2671.0	2635.9	2649.2	2468.7
32.5°	3003.6	2960.1	2996.9	2980.2	2889.9	2876.6	2864.9	2776.3	2783.0	2844.8	2609.1
35°	3125.6	3110.6	3140.7	3110.6	3050.4	3047.1	3035.4	2958.5	2995.2	3083.8	2849.8
37.5°	3237.6	3242.6	3279.4	3264.3	3269.4	3272.7	3266.0	3184.1	3289.4	3488.3	3130.6
40°	3341.2	3334.5	3424.8	3471.6	3481.6	3518.4	3518.4	3498.3	3660.5	3884.4	3520.1
42.5°	3451.5	3468.3	3585.3	3663.8	3759.1	3790.8	3834.3	3844.3	4095.1	4350.8	3917.9
45°	3632.1	3603.6	3752.4	3937.9	4021.5	4133.5	4200.4	4257.2	4559.7	4910.7	4315.7
47.5°	3861.0	3804.2	3934.6	4203.7	4397.6	4489.5	4609.9	4685.1	4980.9	5343.6	4691.8
50°	4115.1	4056.6	4120.1	4491.2	4716.8	4884.0	5037.8	5133.0	5490.7	5828.3	4965.9
52.5°	4402.6	4349.1	4359.1	4790.4	5123.0	5245.0	5447.3	5589.3	5945.3	6120.8	5062.8
55°	4708.5	4695.1	4663.3	5082.9	5479.0	5753.1	5875.1	6045.6	6411.7	6279.6	5168.1
57.5°	5016.0	4974.2	5019.4	5470.7	6050.6	6214.5	6383.3	6485.2	6670.8	6418.4	5128.0
60°	5305.2	5308.5	5372.0	5891.9	6537.0	6769.4	6921.5	6859.6	6936.5	6478.5	5036.1
62.5°	5549.2	5542.5	5703.0	6364.9	7180.5	7337.7	7451.3	7175.5	7060.2	6537.0	4875.6
65°	5768.2	5843.4	6095.8	6928.2	7785.6	7966.1	7897.6	7474.7	7180.5	6364.9	4424.3
67.5°	5933.6	6045.6	6483.6	7458.0	8340.5	8467.6	8372.3	7702.0	7038.5	5689.6	3603.6
70°	6030.6	6144.3	6761.0	7899.3	8783.5	8875.4	8651.4	7526.5	6209.4	4120.1	2248.1
71°	6000.5	6139.2	6814.5	7946.1	8888.8	8957.3	8609.6	7202.3	5584.3	3449.9	1639.7
72.5°	5728.1	5858.4	6592.2	7912.6	8761.7	8720.0	8283.7	6423.4	4395.9	2199.6	847.4
75°	4208.7	4349.1	5657.9	6844.6	7820.7	7533.2	6704.2	4507.9	2293.2	673.6	247.4
77.5°	2096.0	2119.4	3511.7	4969.2	5736.4	5450.6	4492.9	2513.9	857.5	198.9	123.7
80°	966.1	972.8	1317.1	2574.0	3468.3	3264.3	2517.2	1240.2	387.8	105.3	96.9
82.5°	658.6	668.6	793.9	1066.4	1506.0	1270.3	1019.6	793.9	222.3	63.5	95.3
85°	120.3	110.3	444.6	565.0	581.7	394.5	352.7	687.0	83.6	36.8	83.6
87.5°	0.0	1.7	61.8	230.7	207.3	91.9	120.3	167.1	8.4	11.7	15.0
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°	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0
2.5°	2214.7	2196.3	2134.4	2065.9	2004.1	1955.6	1893.8	1865.3	1820.2	1795.1	1793.5
5°	2182.9	2132.8	2025.8	1910.5	1781.8	1674.8	1556.1	1489.3	1412.4	1389.0	1384.0
7.5°	2129.4	2057.6	1900.4	1738.3	1541.1	1352.2	1206.8	1051.3	956.1	916.0	900.9
10°	2096.0	2009.1	1795.1	1552.8	1277.0	1011.2	807.3	641.8	554.9	513.1	503.1
12.5°	2096.0	2002.4	1709.9	1375.6	1009.6	692.0	499.8	404.5	376.1	366.0	366.0
15°	2091.0	1989.0	1628.0	1193.4	747.1	464.7	372.7	352.7	349.3	347.7	346.0
17.5°	2116.1	1965.6	1544.4	997.9	528.2	366.0	342.6	339.3	336.0	336.0	332.6
20°	2134.4	1952.3	1444.1	790.6	394.5	339.3	329.3	324.3	322.6	320.9	324.3
22.5°	2119.4	1932.2	1320.4	591.7	344.3	322.6	315.9	310.9	307.5	307.5	309.2
25°	2147.8	1913.8	1196.8	446.3	322.6	307.5	300.9	297.5	295.8	294.2	290.8
27.5°	2186.3	1922.2	1049.7	359.4	304.2	292.5	285.8	282.5	280.8	277.5	280.8
30°	2233.1	1920.5	887.5	314.2	287.5	275.8	269.1	267.4	264.1	262.4	264.1
32.5°	2313.3	1964.0	720.4	290.8	269.1	259.1	252.4	250.7	249.0	247.4	245.7
35°	2485.4	2017.4	563.3	272.4	252.4	240.7	235.7	232.3	230.7	229.0	227.3
37.5°	2697.7	2136.1	429.6	255.7	235.7	224.0	219.0	217.3	210.6	208.9	207.3
40°	2963.5	2263.1	330.9	237.3	220.6	208.9	203.9	198.9	190.5	187.2	183.9
42.5°	3294.4	2386.8	272.4	220.6	203.9	195.6	187.2	178.8	172.2	165.5	162.1
45°	3625.4	2530.6	239.0	205.6	190.5	180.5	173.8	162.1	150.4	140.4	138.7
47.5°	3901.2	2582.4	219.0	188.9	177.2	168.8	158.8	143.7	127.0	117.0	115.3
50°	4106.8	2552.3	198.9	172.2	162.1	153.8	140.4	122.0	105.3	95.3	91.9
52.5°	4146.9	2420.3	180.5	158.8	147.1	137.1	122.0	102.0	83.6	73.5	71.9
55°	4118.5	2201.3	165.5	147.1	133.7	118.7	102.0	81.9	65.2	55.2	53.5
57.5°	4060.0	1942.2	148.8	132.0	117.0	102.0	83.6	66.9	48.5	38.4	38.4
60°	3861.0	1589.5	132.0	115.3	100.3	86.9	68.5	48.5	33.4	25.1	23.4
62.5°	3583.6	1221.8	115.3	98.6	86.9	71.9	53.5	35.1	20.1	13.4	13.4
65°	3077.1	855.8	96.9	81.9	71.9	58.5	40.1	21.7	11.7	5.0	5.0
67.5°	2338.4	529.8	80.2	68.5	61.8	46.8	28.4	13.4	5.0	1.7	0.0
70°	1342.2	275.8	63.5	55.2	48.5	35.1	20.1	6.7	3.3	0.0	0.0
71°	937.7	203.9	56.8	48.5	43.5	31.8	16.7	5.0	1.7	0.0	0.0
72.5°	469.7	135.4	48.5	40.1	35.1	25.1	13.4	5.0	1.7	0.0	0.0
75°	167.1	86.9	33.4	26.7	25.1	18.4	8.4	3.3	1.7	0.0	0.0
77.5°	115.3	70.2	23.4	16.7	16.7	11.7	5.0	1.7	1.7	0.0	0.0
80°	105.3	38.4	15.0	10.0	8.4	6.7	3.3	1.7	0.0	0.0	0.0
82.5°	105.3	28.4	8.4	6.7	5.0	3.3	1.7	0.0	0.0	0.0	0.0
85°	73.5	15.0	5.0	5.0	3.3	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	11.7	5.0	3.3	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)