

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: P480414

Luminaire Tested: **IFLD-S-SA2B-730-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480414
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-730-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

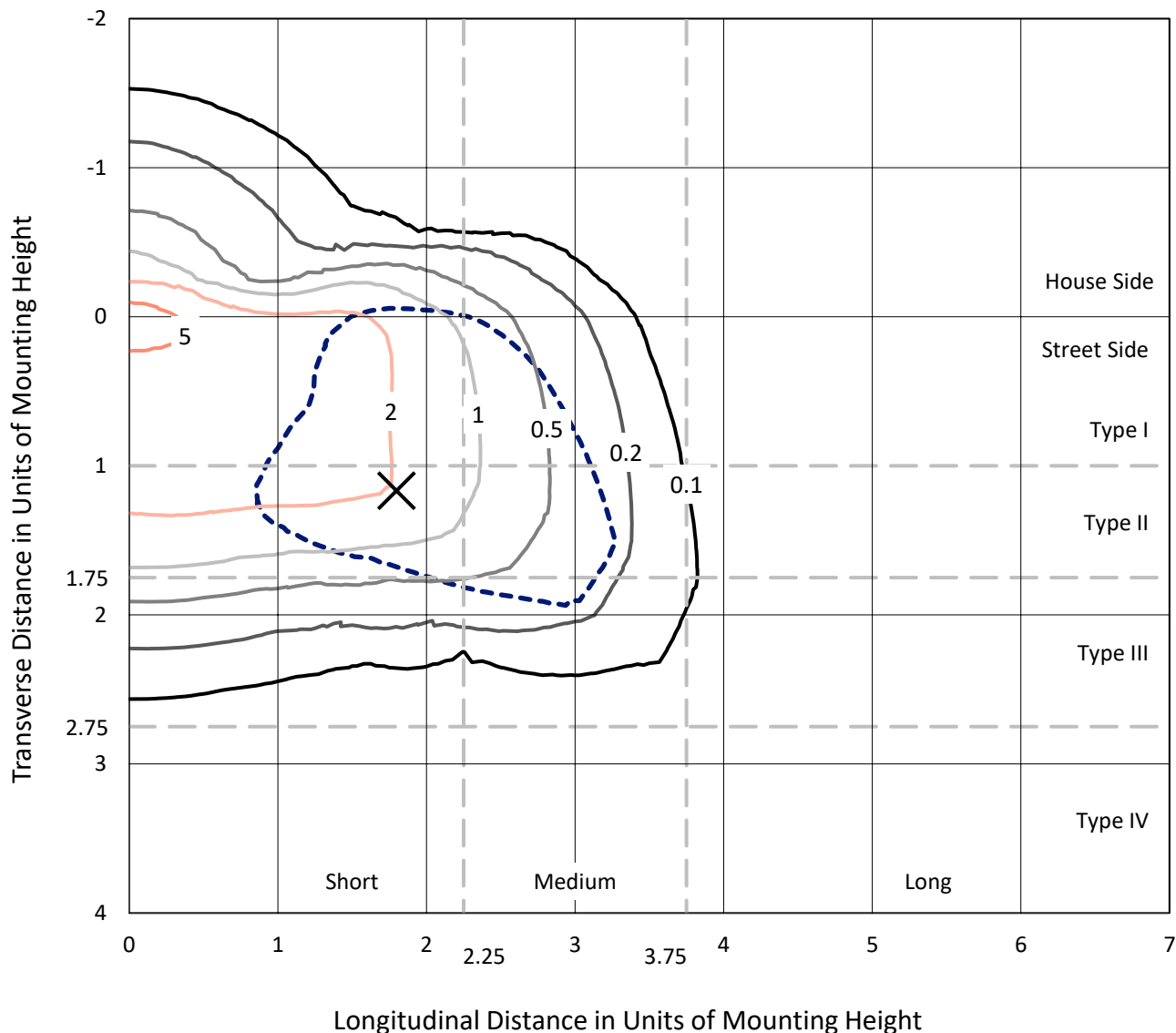
Lumens per Lamp: N/A
Luminaire Lumens: 10259 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
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

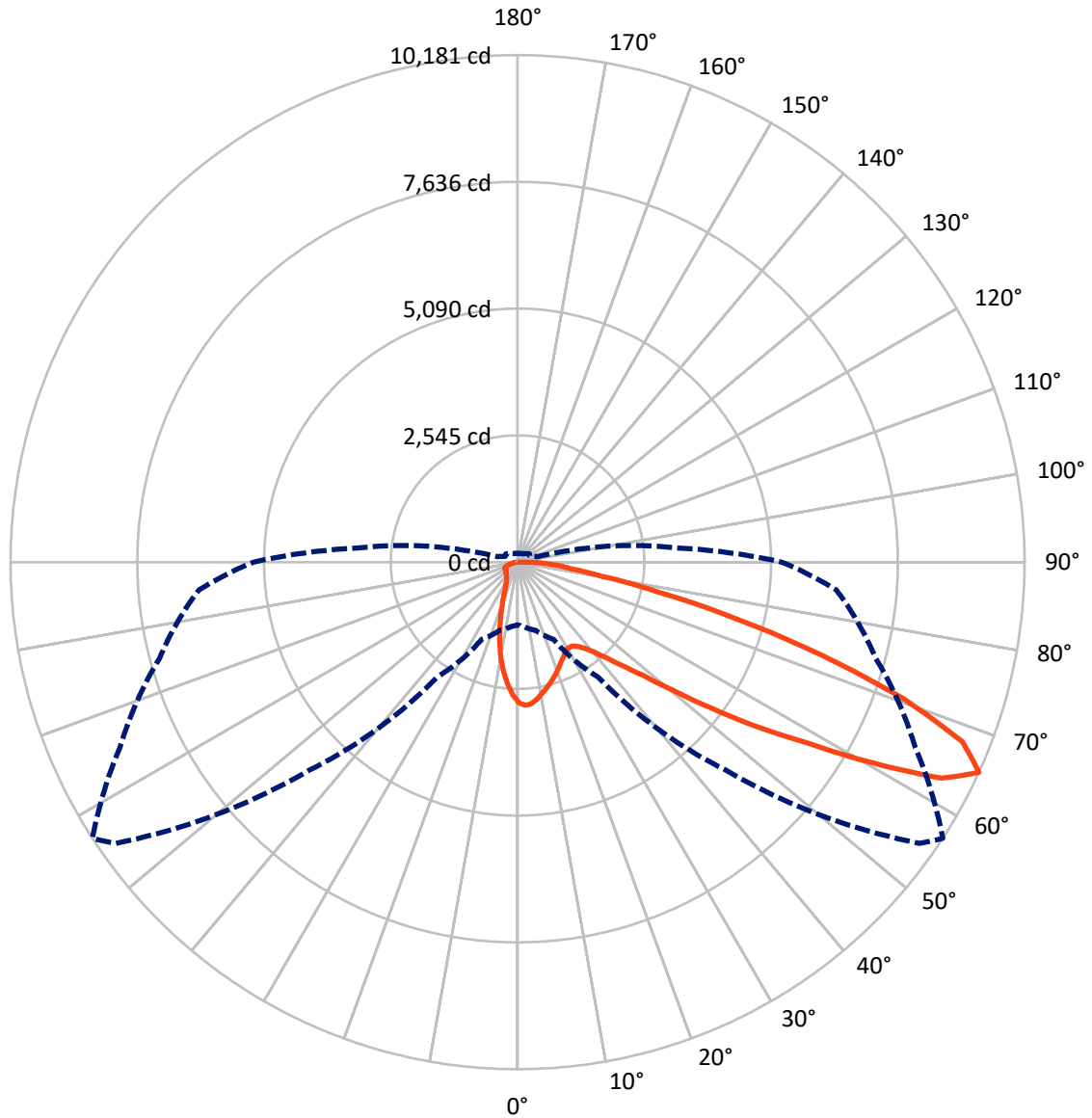
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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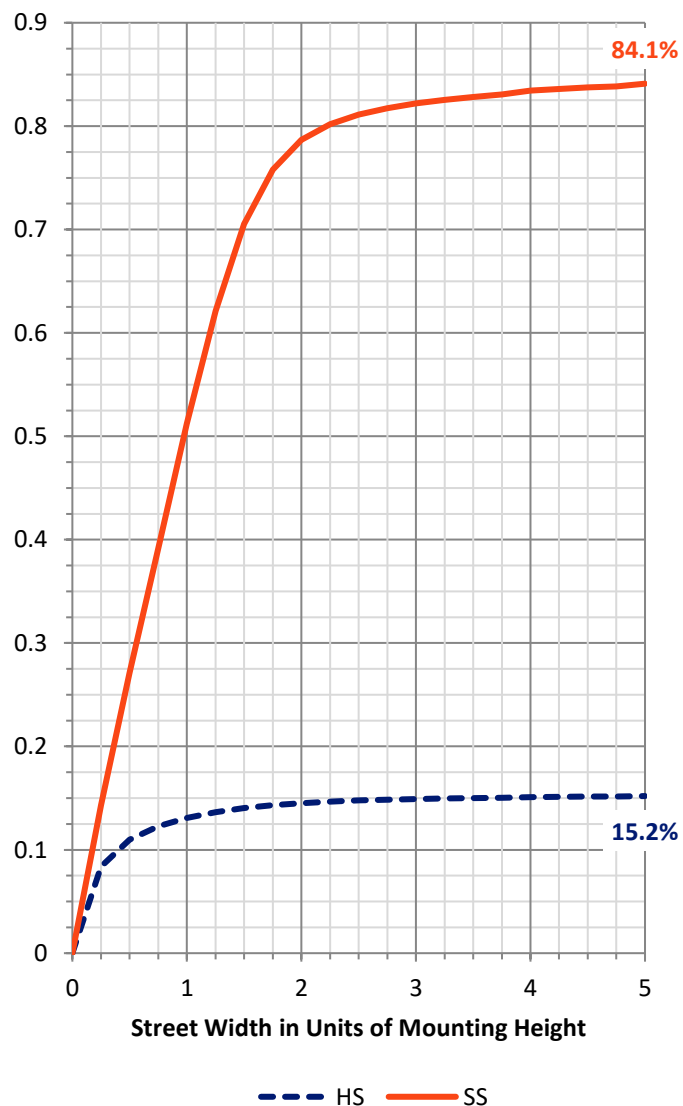
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1573.3	0.0	1573.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	8685.7	0.0	8685.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	10259.0	0.0	10259.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.2	2.3
10°-20°	508.4	5.0
20°-30°	657.4	6.4
30°-40°	884.6	8.6
40°-50°	1410.5	13.7
50°-60°	2491.3	24.3
60°-70°	2740.8	26.7
70°-80°	1146.5	11.2
80°-90°	183.2	1.8
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°	10259.0	100.0
0°-180°	10259.0	100.0

Coefficient of Utilization



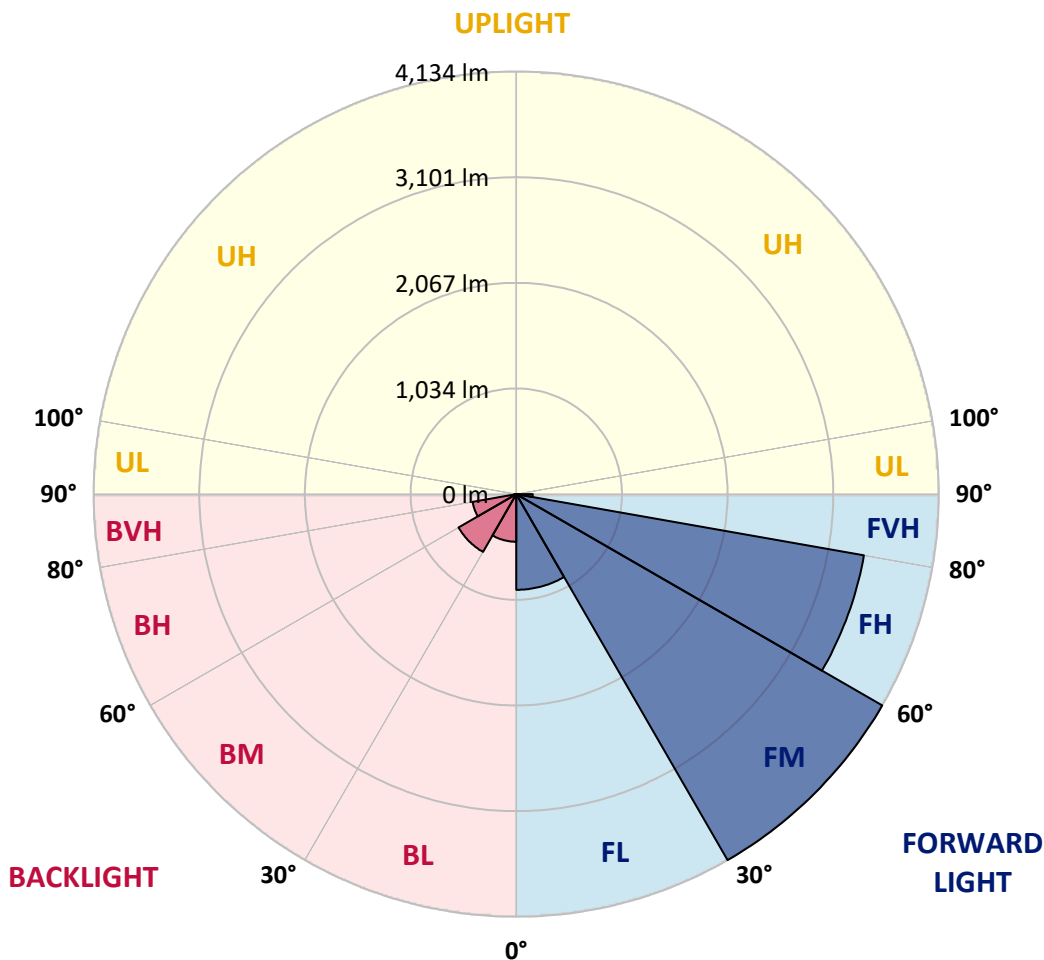
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	936.1	9.1			
FM (30°-60°)	4134.4	40.3			
FH (60°-80°)	3453.5	33.7			G2/5000
FVH (80°-90°)	161.7	1.6			G2/225
BL (0°-30°)	465.9	4.5	B1/500		
BM (30°-60°)	652.1	6.4	B1/1000		
BH (60°-80°)	433.8	4.2	B1/500		G1/500
BVH (80°-90°)	21.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1
2.5°	2897.3	2901.9	2901.9	2911.1	2880.0	2895.0	2892.6	2878.8	2883.4	2859.2	2834.9
5°	2815.3	2811.8	2830.3	2832.6	2856.9	2863.8	2869.6	2860.3	2862.6	2809.5	2786.5
7.5°	2605.2	2604.1	2635.2	2661.8	2712.6	2759.9	2791.1	2781.8	2794.5	2761.1	2706.8
10°	2355.9	2382.5	2414.8	2441.3	2534.8	2594.8	2675.6	2683.7	2732.2	2724.1	2626.0
12.5°	2168.9	2180.5	2204.7	2280.9	2366.3	2465.6	2581.0	2591.4	2638.7	2661.8	2576.4
15°	2015.4	2025.8	2056.9	2113.5	2209.3	2327.0	2473.6	2500.2	2594.8	2602.9	2511.7
17.5°	1903.4	1911.5	1932.3	1988.8	2067.3	2218.5	2357.1	2404.4	2529.0	2568.3	2444.8
20°	1859.6	1842.2	1853.8	1889.6	1968.1	2084.6	2263.6	2305.1	2464.4	2541.7	2381.3
22.5°	1839.9	1824.9	1831.9	1829.5	1891.9	1975.0	2163.1	2207.0	2403.2	2510.6	2324.7
25°	1854.9	1854.9	1848.0	1842.2	1849.2	1903.4	2054.6	2122.7	2321.3	2484.0	2267.0
27.5°	1935.7	1904.6	1908.0	1883.8	1876.9	1876.9	2006.2	2046.6	2294.7	2469.0	2219.7
30°	1987.7	2002.7	2003.8	1968.1	1932.3	1867.6	1961.1	2000.4	2272.8	2487.5	2192.0
32.5°	2120.4	2113.5	2093.9	2087.0	2033.9	1961.1	1983.1	2009.6	2260.1	2529.0	2200.1
35°	2253.2	2249.7	2250.9	2247.4	2192.0	2084.6	2041.9	2077.7	2283.2	2601.8	2227.8
37.5°	2390.5	2399.8	2439.0	2439.0	2380.1	2263.6	2207.0	2196.6	2367.4	2720.7	2293.6
40°	2527.9	2551.0	2600.6	2679.1	2596.0	2487.5	2396.3	2380.1	2469.0	2880.0	2451.7
42.5°	2659.5	2697.6	2795.7	2912.3	2884.6	2776.1	2654.9	2636.4	2678.0	3116.6	2672.2
45°	2828.0	2860.3	3015.0	3193.9	3232.0	3136.2	2994.2	2979.2	2976.9	3462.9	2975.8
47.5°	3084.3	3118.9	3273.6	3453.6	3571.4	3586.4	3427.1	3410.9	3355.5	3930.4	3420.2
50°	3405.2	3461.7	3592.1	3802.2	3973.1	4133.5	4088.5	4041.2	3932.7	4474.0	3983.5
52.5°	3639.5	3708.7	3885.3	4154.3	4455.6	4710.7	4872.3	4872.3	4622.9	5070.8	4661.0
55°	3701.8	3743.4	3966.1	4355.1	4871.1	5516.3	5854.6	5829.2	5444.8	5698.7	5449.4
57.5°	3453.6	3507.9	3778.0	4185.5	5089.3	6270.1	6829.9	6835.7	6342.8	6428.2	6227.4
60°	2770.3	2787.6	3106.2	3651.0	4879.2	6877.3	8162.0	8183.9	7364.4	7078.1	6623.3
62.5°	1915.0	1970.4	2210.5	2688.3	4042.3	6809.2	9446.7	9555.2	8182.8	7420.9	6685.6
65°	1260.5	1294.0	1422.1	1713.0	2814.2	5901.9	9846.1	10180.8	8808.4	7440.5	6424.8
67.5°	914.2	920.0	958.1	1108.1	1691.0	4244.3	9163.9	9636.0	9042.7	7276.6	5813.0
70°	738.7	743.4	757.2	853.0	1092.0	2656.0	7474.0	8213.9	8339.7	6499.8	4681.8
72.5°	600.2	606.0	623.3	713.4	900.3	1477.5	5465.6	6367.1	6783.8	4808.8	3112.0
75°	472.1	476.7	518.3	607.2	846.1	1014.6	3625.6	4508.7	4565.2	2810.7	1456.7
77.5°	323.2	331.3	382.1	514.8	796.5	887.6	2260.1	2888.0	2591.4	1100.0	501.0
80°	205.5	217.0	247.0	390.1	704.1	847.2	1405.9	1724.5	1134.7	376.3	241.2
82.5°	121.2	132.7	162.8	252.8	552.9	786.1	990.4	1079.3	532.1	192.8	145.4
85°	66.9	75.0	98.1	152.4	324.4	698.3	793.0	774.5	304.7	102.7	91.2
87.5°	21.9	25.4	35.8	61.2	133.9	329.0	475.6	446.7	158.1	47.3	35.8
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°	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1	2821.1
2.5°	2818.8	2815.3	2763.4	2724.1	2657.2	2601.8	2579.8	2549.8	2548.7	2526.7	2521.0
5°	2750.7	2714.9	2635.2	2559.1	2440.2	2360.5	2287.8	2237.0	2216.2	2171.2	2160.8
7.5°	2662.9	2615.6	2493.3	2350.1	2210.5	2085.8	1972.7	1859.6	1796.1	1774.1	1749.9
10°	2571.8	2488.6	2307.4	2147.0	1951.9	1760.3	1582.5	1423.2	1336.7	1275.5	1248.9
12.5°	2499.0	2388.2	2157.4	1917.3	1659.9	1403.6	1197.0	1029.6	931.5	885.3	864.6
15°	2417.1	2270.5	1993.5	1689.9	1369.0	1078.1	876.1	744.5	705.3	683.3	679.9
17.5°	2330.5	2160.8	1815.7	1465.9	1085.0	811.5	681.0	627.9	610.6	601.4	596.8
20°	2249.7	2062.7	1633.3	1216.6	849.6	651.0	589.8	562.1	561.0	565.6	564.4
22.5°	2135.4	1934.6	1453.2	985.8	678.7	566.8	527.5	520.6	527.5	533.3	535.6
25°	2070.8	1829.5	1252.4	782.6	561.0	503.3	490.6	488.3	498.7	505.6	504.4
27.5°	2003.8	1721.0	1065.4	626.8	491.7	458.3	455.9	458.3	468.6	479.0	477.9
30°	1951.9	1634.5	890.0	524.0	438.6	425.9	423.6	425.9	431.7	432.9	432.9
32.5°	1909.2	1531.7	741.1	454.8	406.3	395.9	398.2	397.1	398.2	399.4	400.5
35°	1883.8	1470.6	618.7	412.1	379.8	371.7	370.5	367.1	368.2	369.4	368.2
37.5°	1938.1	1440.6	521.7	382.1	361.3	354.4	352.1	349.7	346.3	346.3	346.3
40°	2020.0	1424.4	462.9	362.4	347.4	339.4	332.4	330.1	330.1	331.3	332.4
42.5°	2182.8	1450.9	422.5	347.4	330.1	320.9	314.0	315.1	318.6	322.0	319.7
45°	2418.2	1531.7	404.0	335.9	319.7	307.0	302.4	301.3	304.7	310.5	315.1
47.5°	2726.4	1657.6	397.1	325.5	312.8	295.5	289.7	293.2	297.8	305.9	302.4
50°	3230.9	1940.4	402.8	316.3	302.4	289.7	282.8	279.3	282.8	288.6	290.9
52.5°	3890.0	2454.0	424.8	311.7	295.5	285.1	273.6	267.8	271.3	275.9	275.9
55°	4678.3	3155.8	486.0	305.9	284.0	278.2	265.5	253.9	256.3	256.3	255.1
57.5°	5373.2	3685.6	558.7	297.8	277.0	268.9	252.8	238.9	236.6	237.8	238.9
60°	5684.9	3826.5	593.3	295.5	277.0	257.4	235.5	221.6	218.2	215.9	215.9
62.5°	5630.6	3582.9	522.9	285.1	284.0	248.2	219.3	204.3	199.7	195.1	196.2
65°	5302.8	3235.5	412.1	271.3	285.1	242.4	203.2	188.1	180.1	174.3	173.1
67.5°	4703.7	2762.2	326.7	260.9	273.6	232.0	189.3	172.0	165.1	159.3	157.0
70°	3679.9	2165.4	284.0	247.0	245.9	206.6	173.1	158.1	147.7	140.8	140.8
72.5°	2385.9	1369.0	243.6	219.3	212.4	173.1	150.1	140.8	132.7	127.0	127.0
75°	1080.4	636.0	196.2	183.5	173.1	138.5	127.0	122.4	115.4	109.7	109.7
77.5°	387.8	271.3	146.6	144.3	129.3	107.3	102.7	99.3	94.7	88.9	88.9
80°	217.0	172.0	109.7	105.0	90.0	79.6	73.9	73.9	71.6	68.1	66.9
82.5°	137.4	112.0	80.8	70.4	58.9	53.1	50.8	49.6	48.5	43.9	42.7
85°	86.6	76.2	53.1	41.6	34.6	26.5	25.4	24.2	21.9	19.6	19.6
87.5°	39.2	43.9	20.8	12.7	9.2	5.8	3.5	1.2	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)