

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: P481687

Luminaire Tested: **IFLD-M-SA4B-740-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481687
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-740-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

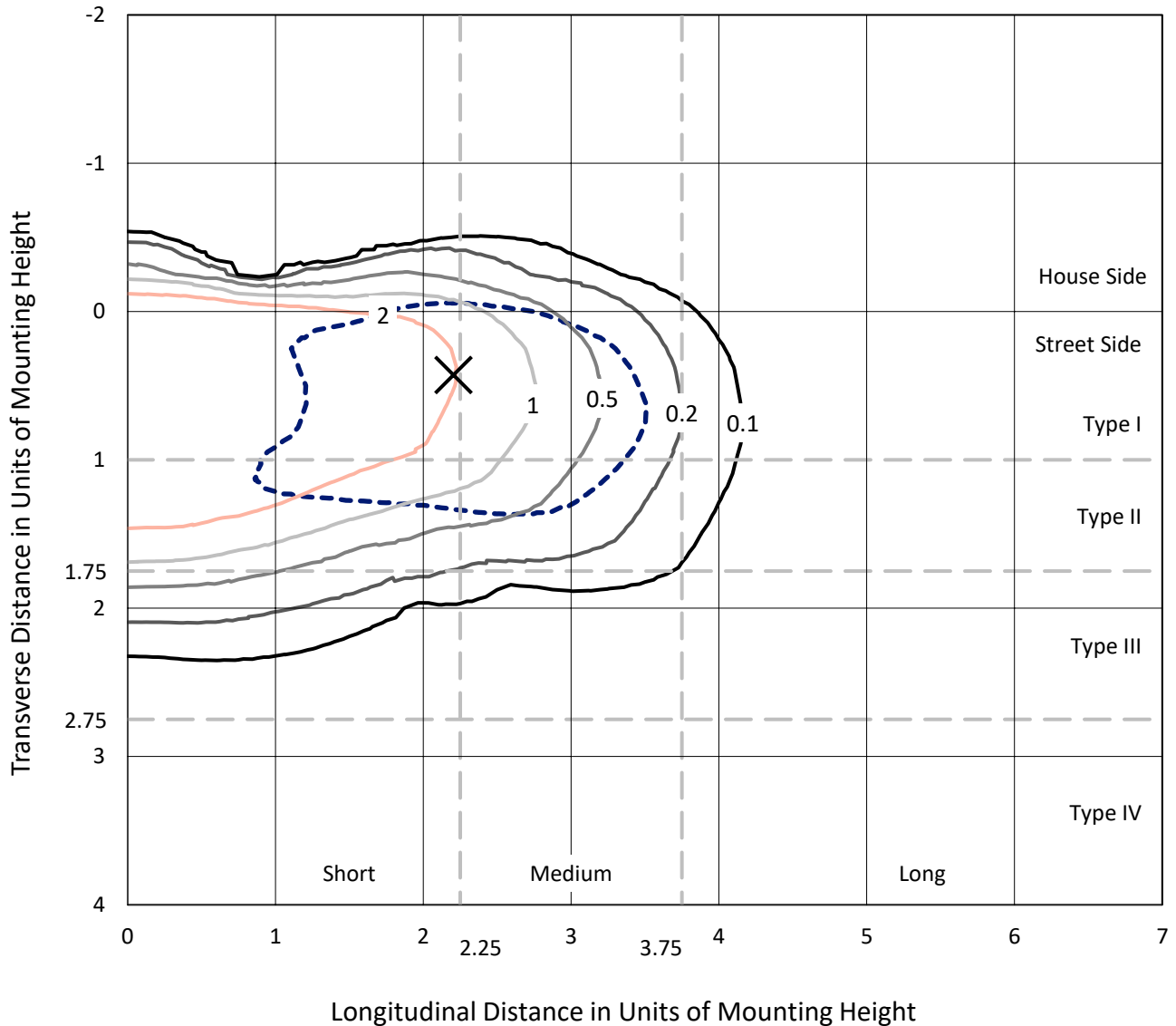
Lumens per Lamp: N/A
Luminaire Lumens: 16447.6 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 166.1
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

REPORT NUMBER: P481687
 CATALOG NUMBER: IFLD-M-SA4B-740-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

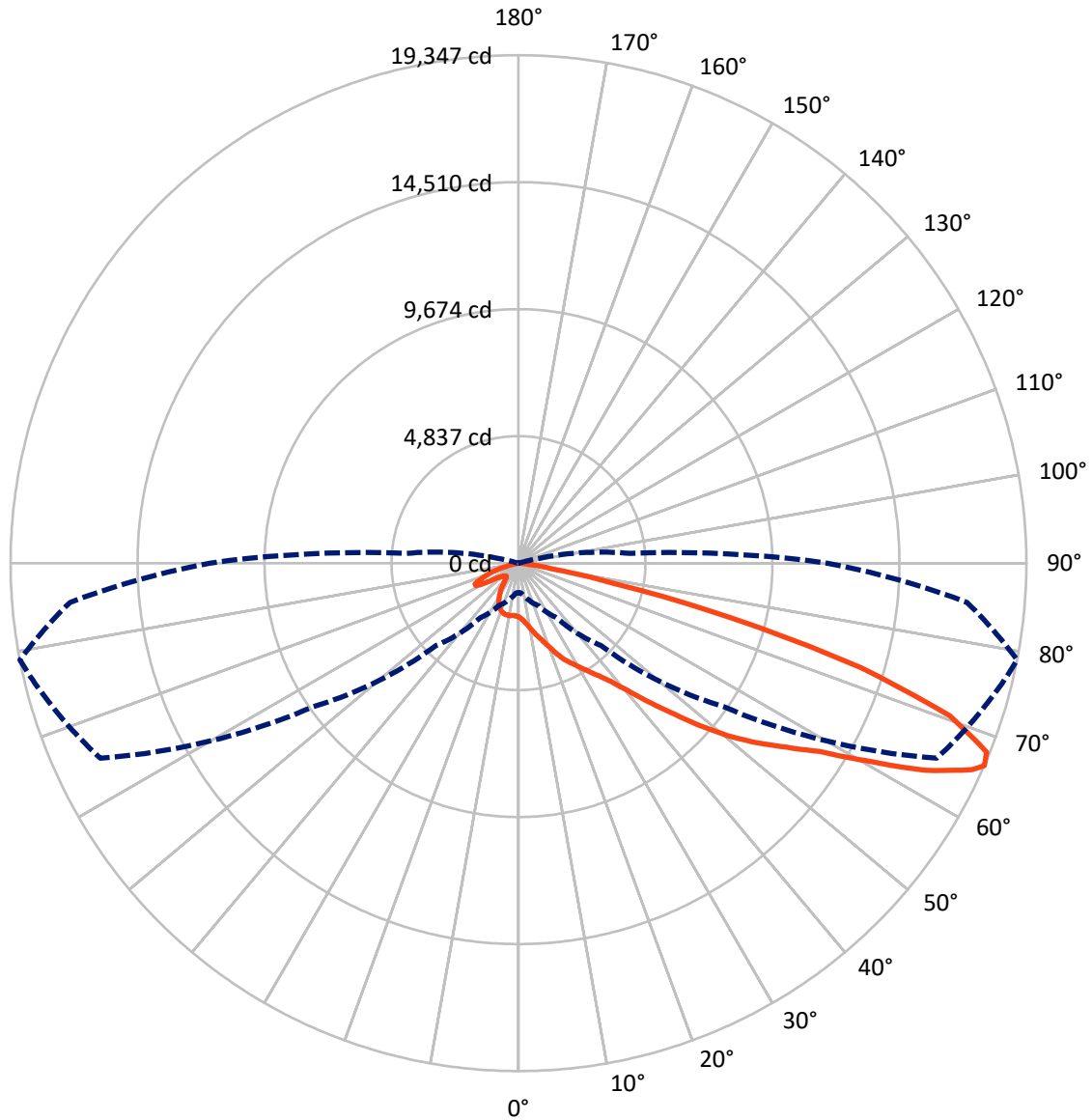
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

REPORT NUMBER: P481687
CATALOG NUMBER: IFLD-M-SA4B-740-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P481687
 CATALOG NUMBER: IFLD-M-SA4B-740-U-T2-HSS

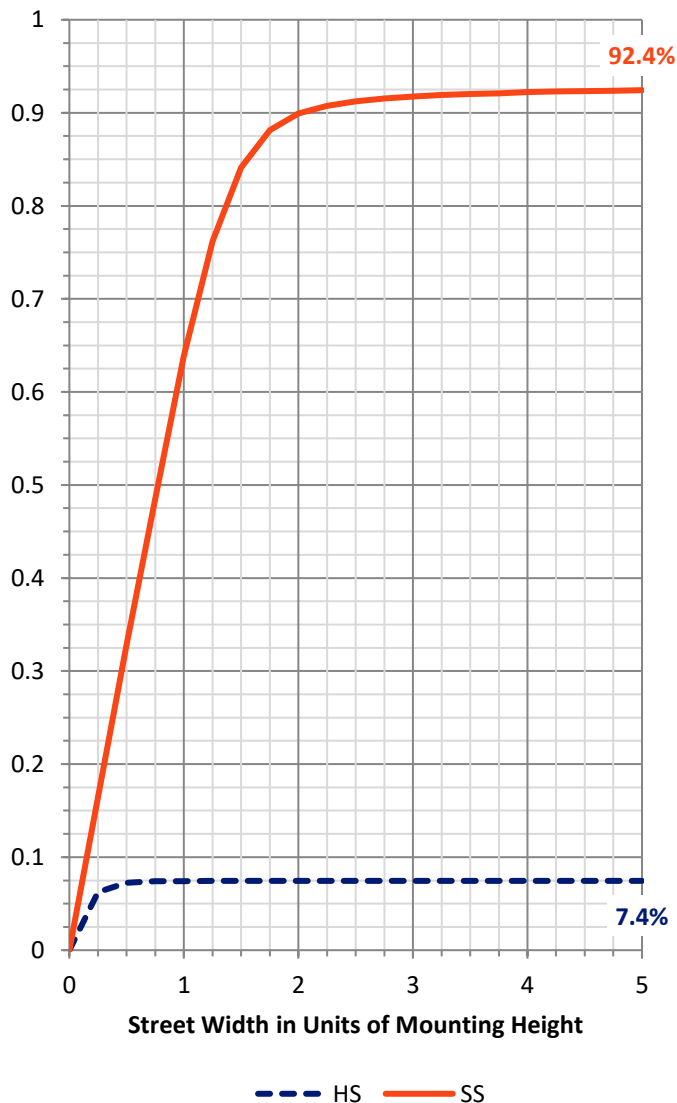
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1235.0	0.0	1235.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	15212.6	0.0	15212.6
	% Fixture	92.5	0.0	92.5
Total	Lumens	16447.6	0.0	16447.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.5	1.2
10°-20°	532.6	3.2
20°-30°	884.8	5.4
30°-40°	1519.7	9.2
40°-50°	2753.2	16.7
50°-60°	4351.9	26.5
60°-70°	4428.4	26.9
70°-80°	1688.8	10.3
80°-90°	94.7	0.6
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°	16447.6	100.0
0°-180°	16447.6	100.0

Coefficient of Utilization



REPORT NUMBER: P481687

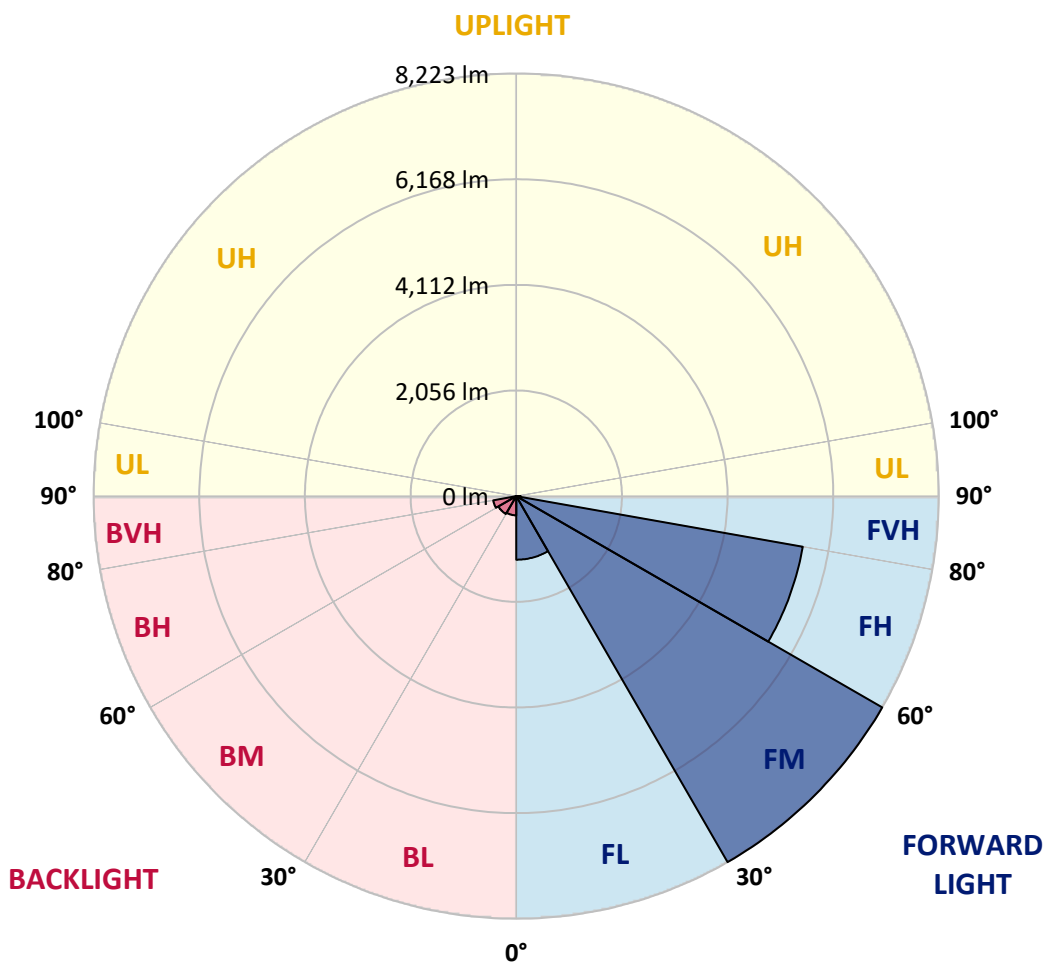
CATALOG NUMBER: IFLD-M-SA4B-740-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1237.4	7.5			
FM (30°-60°)	8223.4	50.0			
FH (60°-80°)	5661.9	34.4			G3/7500
FVH (80°-90°)	89.8	0.5			G1/100
BL (0°-30°)	373.5	2.3	B1/500		
BM (30°-60°)	401.4	2.4	B1/1000		
BH (60°-80°)	455.3	2.8	B1/500		G1/500
BVH (80°-90°)	4.8	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 II Short





REPORT NUMBER: P481687

CATALOG NUMBER: IFLD-M-SA4B-740-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3
2.5°	2317.6	2315.1	2304.9	2287.2	2264.3	2256.7	2223.8	2178.1	2152.8	2124.9	2112.2
5°	2477.3	2464.7	2495.1	2482.4	2487.5	2426.6	2386.1	2353.1	2256.7	2218.7	2157.8
7.5°	2512.8	2525.5	2523.0	2543.3	2563.5	2586.4	2558.5	2510.3	2413.9	2358.2	2292.2
10°	2512.8	2507.8	2528.0	2555.9	2614.3	2665.0	2741.0	2677.7	2604.1	2538.2	2419.0
12.5°	2467.2	2459.6	2479.9	2538.2	2642.2	2746.1	2829.8	2890.6	2786.7	2733.4	2578.8
15°	2327.7	2320.1	2403.8	2507.8	2644.7	2814.6	2989.5	3088.4	3017.4	2933.8	2761.3
17.5°	2155.3	2165.4	2254.2	2426.6	2644.7	2847.5	3070.7	3286.2	3276.1	3169.6	2989.5
20°	2097.0	2104.6	2193.3	2317.6	2566.1	2870.4	3197.5	3501.7	3562.6	3435.8	3200.0
22.5°	2208.6	2200.9	2208.6	2284.6	2512.8	2850.1	3281.1	3747.7	3856.7	3757.8	3476.4
25°	2588.9	2583.8	2520.4	2403.8	2482.4	2804.4	3324.2	3910.0	4161.0	4069.7	3699.5
27.5°	3146.7	3126.5	3027.6	2784.1	2624.4	2832.3	3395.2	4067.2	4427.3	4323.3	3899.8
30°	3745.2	3697.0	3567.7	3263.4	2992.1	2936.3	3435.8	4183.8	4723.9	4592.1	4074.8
32.5°	4158.5	4221.9	4181.3	3871.9	3456.1	3177.2	3501.7	4330.9	4997.8	4911.6	4374.0
35°	4797.5	4871.0	4701.1	4427.3	4008.9	3560.1	3641.2	4450.1	5418.7	5274.2	4652.9
37.5°	5603.8	5659.6	5537.9	5018.1	4576.9	4031.7	3927.7	4698.6	5781.3	5712.8	5010.5
40°	6009.5	6278.3	6105.9	5636.8	5162.6	4691.0	4401.9	4990.2	6412.7	6356.9	5504.9
42.5°	6569.9	6704.3	6615.5	6268.1	5773.7	5395.9	4987.6	5558.2	7178.4	7178.4	6174.3
45°	7163.2	7168.3	7163.2	6879.2	6440.6	6245.3	5778.8	6270.7	8002.5	8093.8	6975.6
47.5°	7650.1	7802.2	7789.5	7619.6	7279.9	7206.3	6569.9	7082.1	9037.1	9196.8	7756.6
50°	7901.1	8071.0	8121.7	8210.5	8195.2	8349.9	7434.5	8022.8	9929.6	10322.7	8760.7
52.5°	7832.6	7845.3	8157.2	8507.1	9065.0	9498.6	8476.7	9090.3	10974.3	11362.3	9536.6
55°	7272.3	7224.1	7865.6	8266.2	9420.0	10200.9	9919.5	10421.5	11788.3	12379.1	10337.9
57.5°	6042.5	6055.1	6648.5	7462.4	9156.3	10479.9	11461.2	12161.0	12929.3	13525.2	11463.7
60°	4171.2	4155.9	4820.3	5761.0	7607.0	9960.1	12348.6	14415.2	14455.8	15300.1	13484.6
62.5°	2345.5	2350.6	2855.1	3659.0	5322.3	8139.5	12305.5	16808.9	16636.4	17376.8	15781.9
65°	1328.7	1361.6	1709.0	2168.0	3187.3	5464.3	10583.8	17762.3	18317.6	18976.8	17176.5
66°	1123.3	1146.1	1442.8	1790.2	2543.3	4432.3	9526.5	17577.2	18845.0	19347.0	17148.6
67.5°	869.7	900.2	1148.7	1420.0	1866.2	3068.1	7667.8	16656.7	18941.3	19235.5	16664.3
70°	595.9	616.2	806.3	1077.7	1275.4	1569.6	4584.5	13771.1	17186.7	17435.2	14483.7
72.5°	418.4	428.5	565.5	816.5	981.3	897.6	2274.5	9797.8	13152.4	13636.8	11265.9
75°	301.7	311.9	388.0	585.7	765.8	588.3	1042.2	6258.0	8065.9	8446.3	6785.4
77.5°	218.1	230.7	263.7	377.8	555.3	413.3	512.2	3268.5	3803.5	3737.6	2918.5
80°	131.9	144.5	195.2	243.4	405.7	291.6	281.5	1364.2	1349.0	1280.5	917.9
82.5°	60.9	71.0	104.0	164.8	284.0	202.9	134.4	486.8	426.0	390.5	258.6
85°	17.7	22.8	60.9	124.2	144.5	98.9	81.1	167.4	175.0	149.6	86.2
87.5°	0.0	2.5	27.9	30.4	43.1	33.0	30.4	43.1	81.1	65.9	27.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P481687
 CATALOG NUMBER: IFLD-M-SA4B-740-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3
2.5°	2066.6	2048.8	2005.7	1939.8	1881.5	1851.0	1807.9	1769.9	1749.6	1747.1	1744.5
5°	2117.3	2069.1	1965.1	1846.0	1757.2	1660.9	1594.9	1546.7	1501.1	1458.0	1483.4
7.5°	2185.7	2109.7	1939.8	1785.1	1592.4	1468.1	1351.5	1283.0	1242.5	1204.4	1199.4
10°	2292.2	2195.9	1922.0	1643.1	1422.5	1239.9	1120.8	1021.9	966.1	900.2	925.5
12.5°	2436.8	2264.3	1856.1	1513.8	1229.8	1037.1	867.2	707.4	618.7	550.2	552.8
15°	2581.3	2355.6	1795.2	1356.6	1054.8	801.3	552.8	443.7	418.4	403.2	408.2
17.5°	2723.3	2429.2	1701.4	1196.8	854.5	509.7	403.2	380.3	367.7	352.5	352.5
20°	2895.7	2477.3	1584.8	1049.8	588.3	377.8	344.8	329.6	309.3	289.1	291.6
22.5°	3063.1	2517.9	1450.4	862.1	395.6	327.1	289.1	268.8	251.0	230.7	230.7
25°	3230.4	2530.6	1275.4	618.7	319.5	261.2	225.7	197.8	180.0	162.3	164.8
27.5°	3344.5	2452.0	1110.6	395.6	256.1	197.8	157.2	134.4	119.2	101.4	101.4
30°	3410.5	2307.4	933.1	278.9	192.7	134.4	93.8	71.0	55.8	43.1	40.6
32.5°	3476.4	2190.8	732.8	213.0	126.8	71.0	35.5	12.7	0.0	0.0	0.0
35°	3608.2	2059.0	491.9	119.2	43.1	2.5	0.0	0.0	0.0	0.0	0.0
37.5°	3691.9	1876.4	225.7	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3902.4	1785.1	55.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4244.7	1721.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4620.0	1696.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5119.5	1764.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5646.9	1949.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6225.0	2124.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6729.6	2335.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7657.7	2832.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9323.6	3808.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11200.0	4533.8	27.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11887.2	4516.0	48.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	11765.4	4267.5	48.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11134.1	3790.8	43.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9562.0	3131.5	43.1	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7290.0	2439.3	40.6	10.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	4399.4	1298.3	33.0	12.7	5.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1752.1	456.4	25.4	10.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	474.2	136.9	15.2	10.1	7.6	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	124.2	50.7	12.7	10.1	5.1	2.5	0.0	0.0	0.0	0.0	0.0
85°	48.2	20.3	10.1	7.6	7.6	5.1	2.5	0.0	0.0	0.0	0.0
87.5°	15.2	7.6	7.6	5.1	5.1	2.5	2.5	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)