

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: P479346

Luminaire Tested: **IFLD-M-SA4A-740-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479346
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-740-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

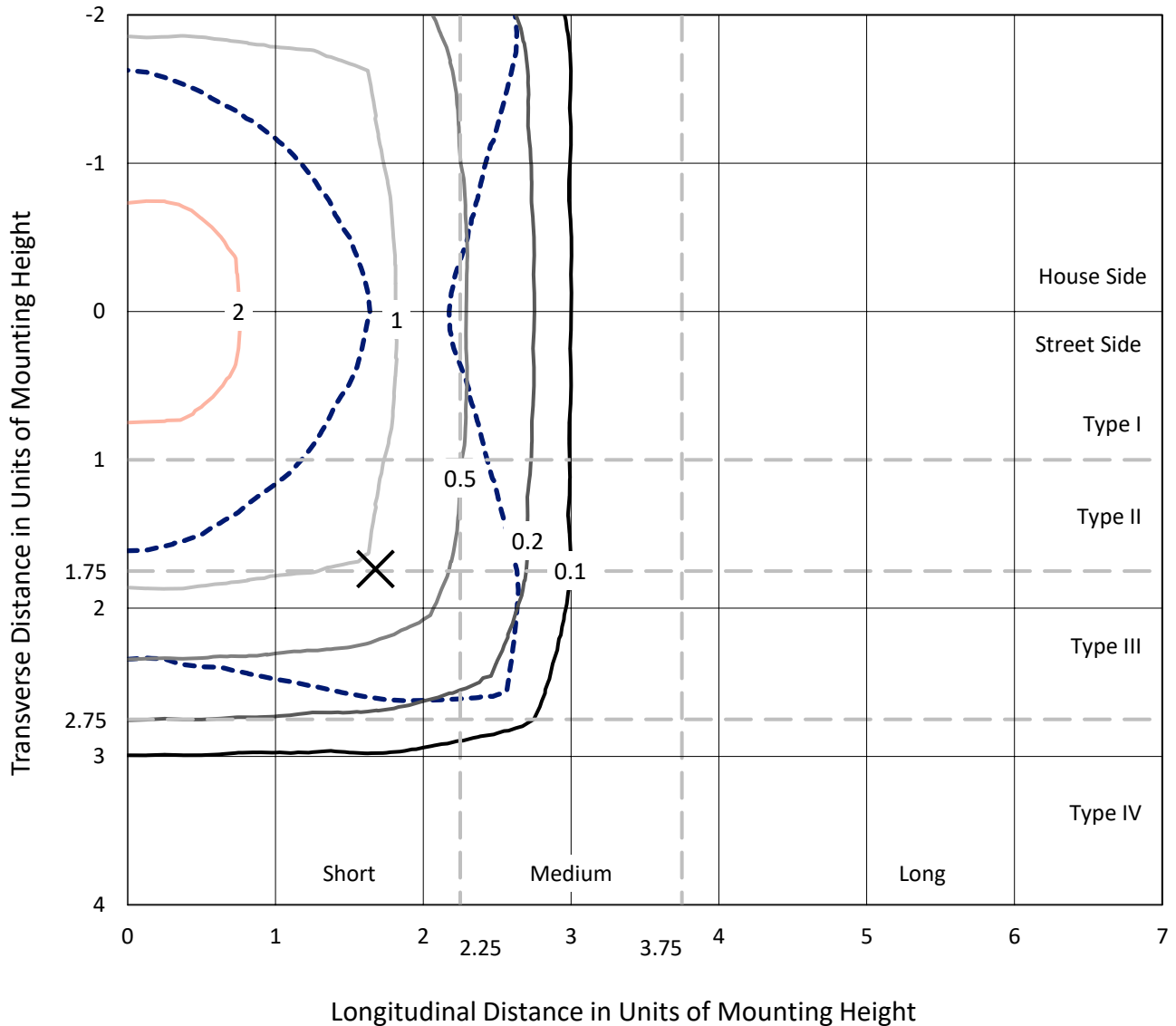
Lumens per Lamp: N/A
Luminaire Lumens: 18641.1 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 128.6
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: P479346
 CATALOG NUMBER: IFLD-M-SA4A-740-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

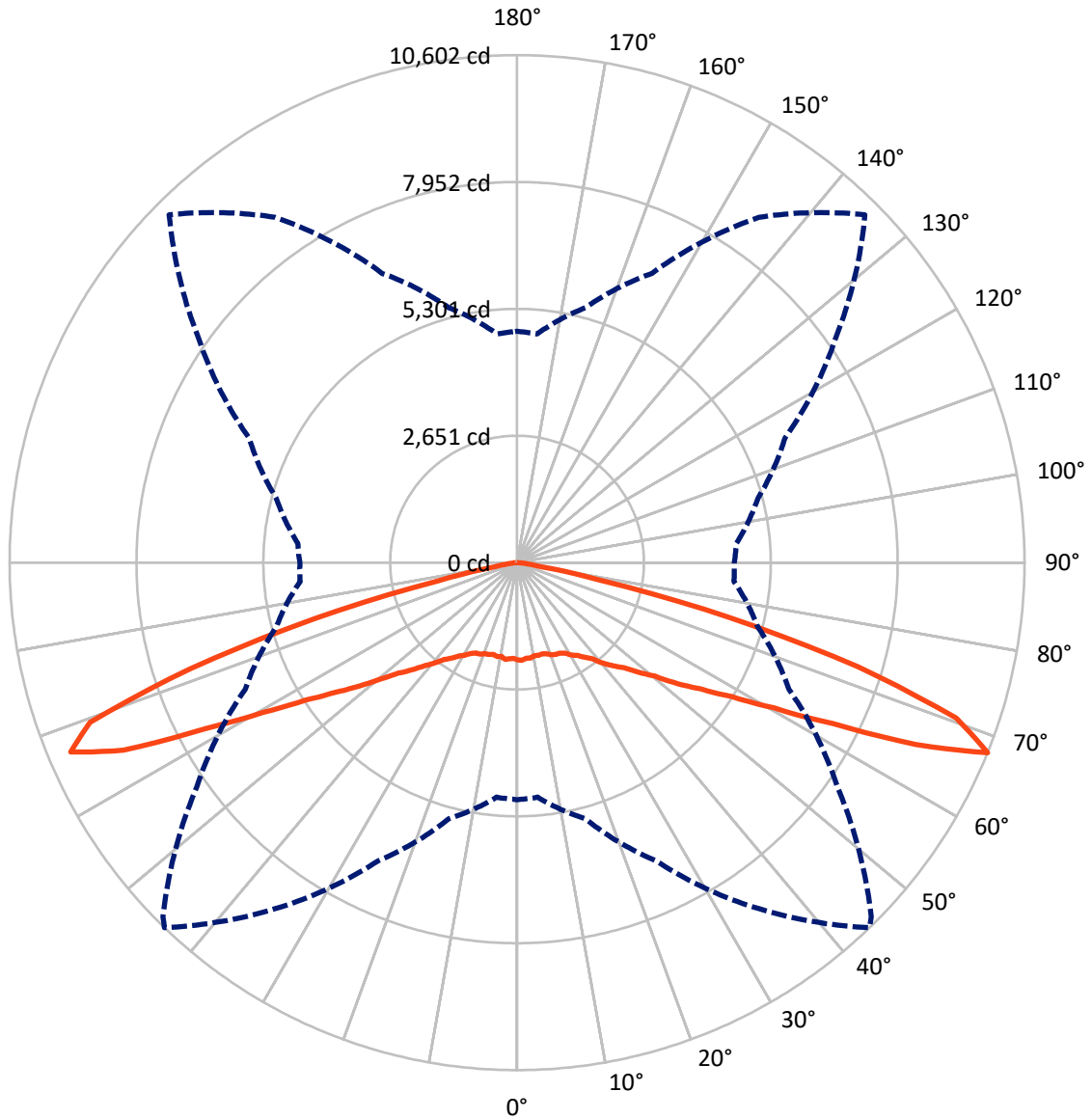
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - N/A

REPORT NUMBER: P479346
CATALOG NUMBER: IFLD-M-SA4A-740-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P479346

CATALOG NUMBER: IFLD-M-SA4A-740-U-5MQ

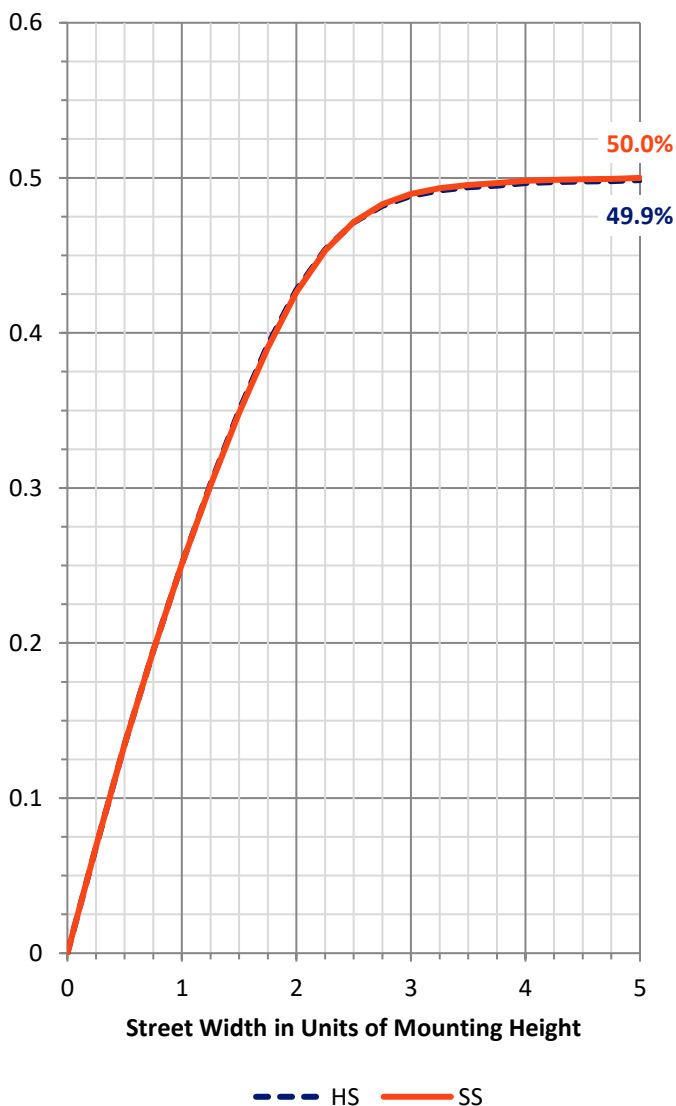
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9296.7	0.0	9296.7
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	9344.4	0.0	9344.4
	% Fixture	50.1	0.0	50.1
Total	Lumens	18641.1	0.0	18641.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.7	1.0
10°-20°	562.9	3.0
20°-30°	957.3	5.1
30°-40°	1517.8	8.1
40°-50°	2475.0	13.3
50°-60°	4226.9	22.7
60°-70°	6429.0	34.5
70°-80°	2167.0	11.6
80°-90°	112.5	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°	18641.1	100.0
0°-180°	18641.1	100.0

Coefficient of Utilization



REPORT NUMBER: P479346

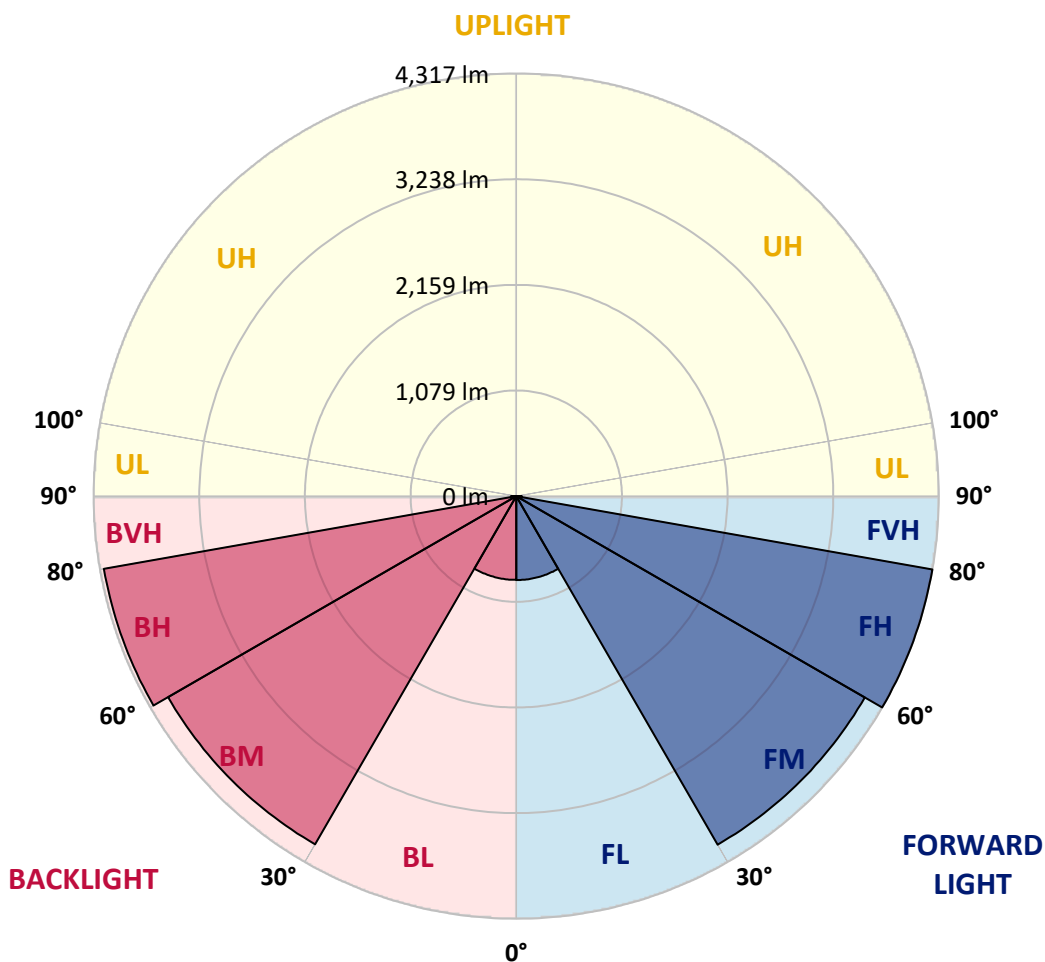
CATALOG NUMBER: IFLD-M-SA4A-740-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	857.3	4.6			
FM (30°-60°)	4112.1	22.1			
FH (60°-80°)	4317.5	23.2			G2/5000
FVH (80°-90°)	57.6	0.3			G1/100
BL (0°-30°)	855.6	4.6	B2/1000		
BM (30°-60°)	4107.6	22.0	B3/5000		
BH (60°-80°)	4278.6	23.0	B4/5000		G2/5000
BVH (80°-90°)	54.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P479346
 CATALOG NUMBER: IFLD-M-SA4A-740-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2036.2	2036.2	2036.2	2036.2	2036.2	2036.2	2036.2	2036.2	2036.2	2036.2	2036.2
2.5°	1989.4	2012.8	2029.8	2027.7	2034.1	2040.5	2032.0	2044.7	2036.2	2051.1	2059.6
5°	2027.7	2021.3	2023.5	2010.7	2040.5	2006.4	2006.4	2023.5	2044.7	2019.2	2034.1
7.5°	2004.3	2000.0	1989.4	2008.6	2014.9	2014.9	2032.0	2000.0	2036.2	2044.7	2046.9
10°	1978.8	1955.4	1987.3	2006.4	2010.7	1976.6	1991.5	2000.0	1989.4	2000.0	2006.4
12.5°	1957.5	1970.3	1970.3	1970.3	1963.9	1987.3	2002.2	2000.0	1978.8	1997.9	1963.9
15°	1955.4	1949.0	1968.1	1985.2	1974.5	1978.8	1985.2	2004.3	1963.9	1972.4	1972.4
17.5°	1953.2	1961.8	1968.1	1966.0	2002.2	2002.2	1995.8	1983.0	2014.9	1997.9	1974.5
20°	1961.8	1955.4	1972.4	1978.8	2004.3	2055.4	2036.2	2025.6	2008.6	1987.3	1987.3
22.5°	1972.4	1968.1	1991.5	2019.2	2068.1	2080.9	2078.8	2066.0	2036.2	2010.7	2006.4
25°	2010.7	1972.4	1997.9	2051.1	2068.1	2093.7	2110.7	2093.7	2053.2	2059.6	2021.3
27.5°	2068.1	2061.8	2095.8	2132.0	2117.1	2140.5	2125.6	2138.4	2140.5	2108.6	2070.3
30°	2136.2	2117.1	2138.4	2208.6	2214.9	2240.5	2214.9	2180.9	2191.5	2163.9	2144.7
32.5°	2234.1	2227.7	2268.1	2315.0	2323.5	2310.7	2297.9	2317.1	2272.4	2251.1	2217.1
35°	2297.9	2325.6	2374.5	2410.7	2438.4	2425.6	2432.0	2412.8	2423.5	2378.8	2363.9
37.5°	2487.3	2476.7	2487.3	2549.0	2555.4	2549.0	2555.4	2576.7	2561.8	2523.5	2485.2
40°	2666.0	2649.0	2674.5	2744.7	2740.5	2761.8	2719.2	2742.6	2742.6	2670.3	2655.4
42.5°	2800.1	2857.5	2887.3	2944.8	2966.0	2946.9	2938.4	2942.6	2989.4	2904.3	2872.4
45°	3076.7	3074.5	3163.9	3195.8	3136.2	3132.0	3115.0	3166.0	3198.0	3149.0	3136.2
47.5°	3376.7	3391.6	3442.6	3455.4	3491.6	3425.6	3425.6	3432.0	3544.8	3429.9	3370.3
50°	3646.9	3666.0	3768.2	3868.2	3800.1	3729.9	3757.5	3791.6	3853.3	3744.8	3693.7
52.5°	3974.6	4078.8	4146.9	4200.1	4249.0	4200.1	4136.3	4174.6	4295.9	4151.2	4087.3
55°	4446.9	4529.9	4593.7	4691.6	4732.0	4666.1	4659.7	4655.4	4723.5	4570.3	4483.1
57.5°	4974.6	4940.5	5042.7	5193.7	5340.6	5276.7	5257.6	5261.8	5278.9	5061.8	4995.9
60°	5629.9	5668.2	5789.5	5921.4	6076.7	6166.1	6040.6	5968.2	5983.1	5687.4	5585.2
62.5°	6004.4	6089.5	6364.0	6817.2	7130.0	7408.7	7427.8	6957.6	6642.7	6068.2	5634.2
65°	5823.5	5810.8	6327.8	7166.1	8351.3	9161.9	9040.7	7900.2	6800.2	5887.4	5304.4
67.5°	4953.3	4919.3	5544.8	6874.6	8832.1	10602.4	10464.1	8166.2	6268.2	5208.6	4549.0
70°	3191.6	3183.1	3861.8	5240.6	7885.3	9734.3	9785.4	7417.2	5102.3	3815.0	3161.8
72.5°	1159.6	1229.8	1623.4	2817.1	5355.5	7447.0	7478.9	5491.6	2934.1	1763.9	1300.0
75°	427.7	440.4	512.8	914.9	2440.5	4572.5	4691.6	2663.9	1042.6	574.5	468.1
77.5°	246.8	248.9	274.5	340.4	723.4	1785.2	1857.5	808.5	404.3	306.4	283.0
80°	168.1	166.0	193.6	221.3	289.4	506.4	538.3	338.3	255.3	212.8	178.7
82.5°	97.9	104.3	142.6	157.5	176.6	223.4	227.7	210.6	191.5	157.5	117.0
85°	59.6	48.9	78.7	87.2	102.1	100.0	100.0	114.9	123.4	110.6	66.0
87.5°	14.9	14.9	19.1	21.3	27.7	21.3	23.4	44.7	59.6	55.3	34.0
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: P479346
 CATALOG NUMBER: IFLD-M-SA4A-740-U-5MQ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2036.2	2036.2	2036.2	2036.2	2036.2	2036.2	2036.2	2036.2	2036.2	2036.2	2036.2
2.5°	2040.5	2034.1	2038.3	2061.8	2046.9	2002.2	2012.8	2036.2	2017.1	2006.4	2004.3
5°	2032.0	2044.7	2029.8	2034.1	2049.0	2012.8	2019.2	2049.0	2036.2	2040.5	2017.1
7.5°	2034.1	2040.5	2027.7	2008.6	2008.6	2038.3	2021.3	2025.6	2006.4	2038.3	1995.8
10°	2021.3	2004.3	1989.4	2000.0	1995.8	1987.3	1980.9	1993.7	1974.5	2002.2	1972.4
12.5°	1983.0	1987.3	1983.0	1978.8	1987.3	2008.6	1974.5	1978.8	1949.0	1953.2	1968.1
15°	1968.1	1980.9	1976.6	2000.0	2010.7	1978.8	2004.3	1978.8	1955.4	1942.6	1966.0
17.5°	1974.5	1993.7	1987.3	2004.3	1985.2	2008.6	2012.8	2002.2	1974.5	1963.9	1974.5
20°	1980.9	1974.5	1983.0	2012.8	2040.5	2017.1	2017.1	2010.7	1985.2	1970.3	1970.3
22.5°	1995.8	1985.2	1997.9	2021.3	2029.8	2066.0	2034.1	2019.2	1976.6	1938.3	1974.5
25°	2025.6	2032.0	2040.5	2032.0	2078.8	2074.5	2070.3	2059.6	1993.7	1995.8	1989.4
27.5°	2083.0	2046.9	2057.5	2108.6	2114.9	2132.0	2110.7	2129.8	2059.6	2061.8	2019.2
30°	2153.2	2114.9	2149.0	2193.7	2191.5	2223.5	2212.8	2217.1	2168.1	2140.5	2083.0
32.5°	2229.8	2225.6	2246.9	2274.5	2285.2	2302.2	2300.1	2300.1	2270.3	2197.9	2208.6
35°	2315.0	2344.7	2370.3	2400.1	2404.3	2425.6	2395.8	2400.1	2370.3	2317.1	2334.1
37.5°	2483.0	2480.9	2508.6	2544.7	2549.0	2532.0	2555.4	2544.7	2504.3	2468.1	2440.5
40°	2678.8	2636.2	2661.8	2746.9	2753.3	2723.5	2721.3	2719.2	2689.4	2610.7	2593.7
42.5°	2849.0	2904.3	2900.1	2927.7	2908.6	2893.7	2946.9	2917.1	2893.7	2810.7	2795.8
45°	3068.2	3085.2	3140.5	3229.9	3138.4	3138.4	3174.5	3151.1	3138.4	3076.7	3019.2
47.5°	3340.5	3355.4	3466.0	3472.4	3412.9	3372.4	3485.2	3489.4	3436.3	3389.4	3319.2
50°	3659.7	3666.0	3766.1	3868.2	3802.2	3725.6	3840.5	3885.2	3766.1	3702.2	3615.0
52.5°	4010.7	3991.6	4074.6	4266.1	4202.2	4178.8	4302.2	4312.9	4151.2	4051.2	4074.6
55°	4415.0	4389.5	4615.0	4744.8	4704.4	4661.8	4717.1	4742.7	4612.9	4449.0	4506.5
57.5°	4938.4	4951.2	5064.0	5191.6	5257.6	5268.2	5293.7	5268.2	5136.3	4970.3	4917.1
60°	5461.8	5500.1	5719.3	5959.7	5981.0	6168.2	6134.2	6006.5	5819.3	5583.1	5593.8
62.5°	5655.5	5623.5	5976.7	6564.0	7064.0	7406.6	7255.5	6802.3	6368.2	5938.4	5970.4
65°	5266.1	5344.8	5825.7	6744.8	7830.0	9185.3	8381.1	7127.8	6251.2	5695.9	5634.2
67.5°	4538.4	4598.0	5208.6	6178.9	8104.5	10279.0	8806.6	6668.3	5512.9	4793.7	4832.0
70°	3161.8	3191.6	3789.5	5061.8	7349.1	9700.2	7944.9	5121.4	3806.5	3034.1	3076.7
72.5°	1272.4	1344.7	1738.3	3049.0	5425.7	7370.4	5349.1	2687.3	1578.8	1174.5	1066.0
75°	470.2	472.4	555.3	1049.0	2576.7	4632.0	2412.8	863.9	504.3	412.8	393.6
77.5°	272.3	270.2	289.4	378.7	746.8	1808.6	685.1	338.3	274.5	246.8	236.2
80°	170.2	168.1	197.9	251.1	327.7	495.8	289.4	210.6	185.1	159.6	159.6
82.5°	108.5	110.6	155.3	185.1	200.0	219.2	168.1	148.9	138.3	91.5	89.4
85°	70.2	63.8	108.5	123.4	110.6	97.9	93.6	78.7	72.3	44.7	48.9
87.5°	31.9	34.0	55.3	61.7	40.4	23.4	23.4	17.0	17.0	10.6	10.6
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)