

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: P480830

Luminaire Tested: **IFLD-M-SA4C-730-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480830
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-730-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

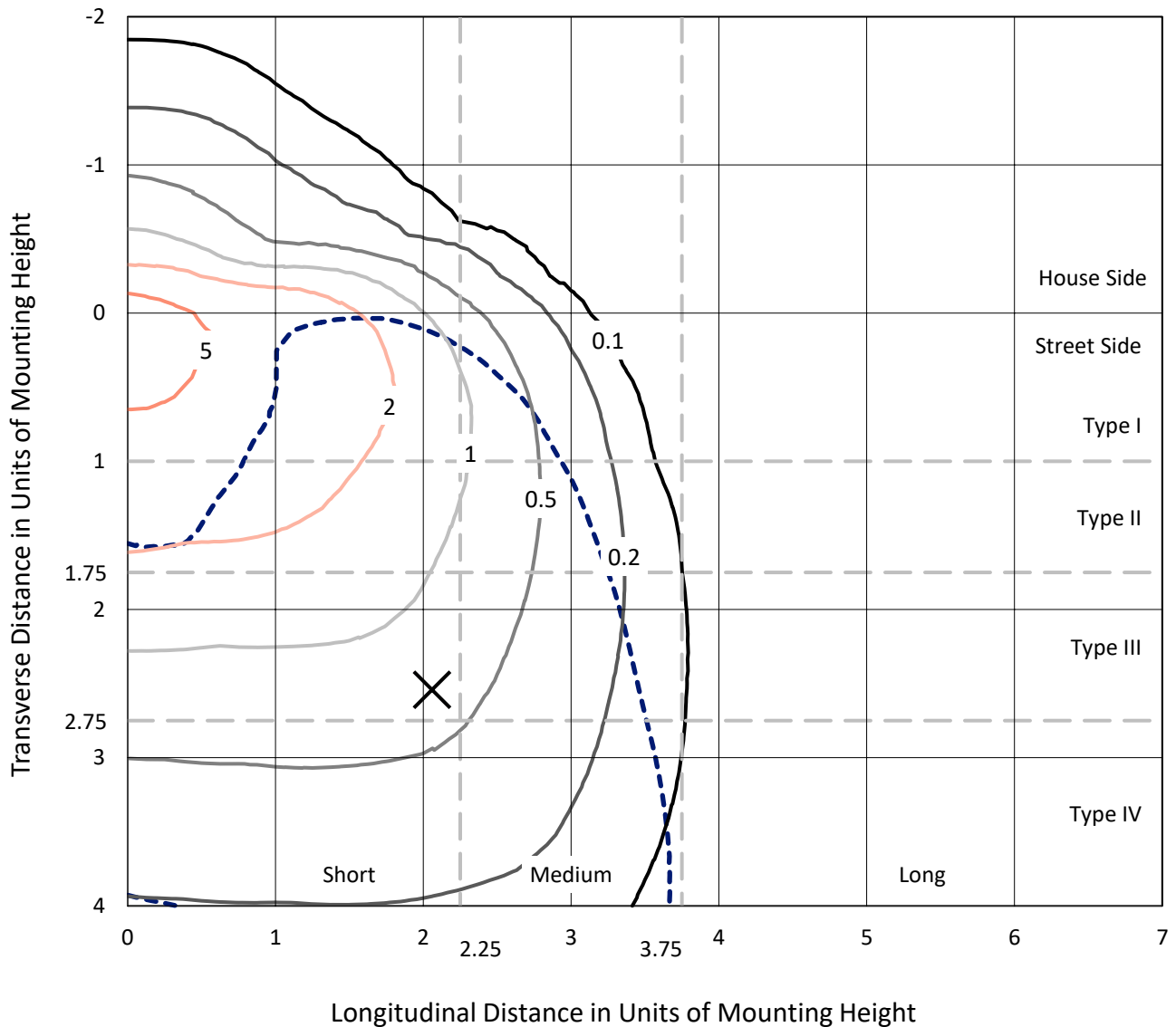
Lumens per Lamp: N/A
Luminaire Lumens: 25042.8 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 218.1
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: P480830
 CATALOG NUMBER: IFLD-M-SA4C-730-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

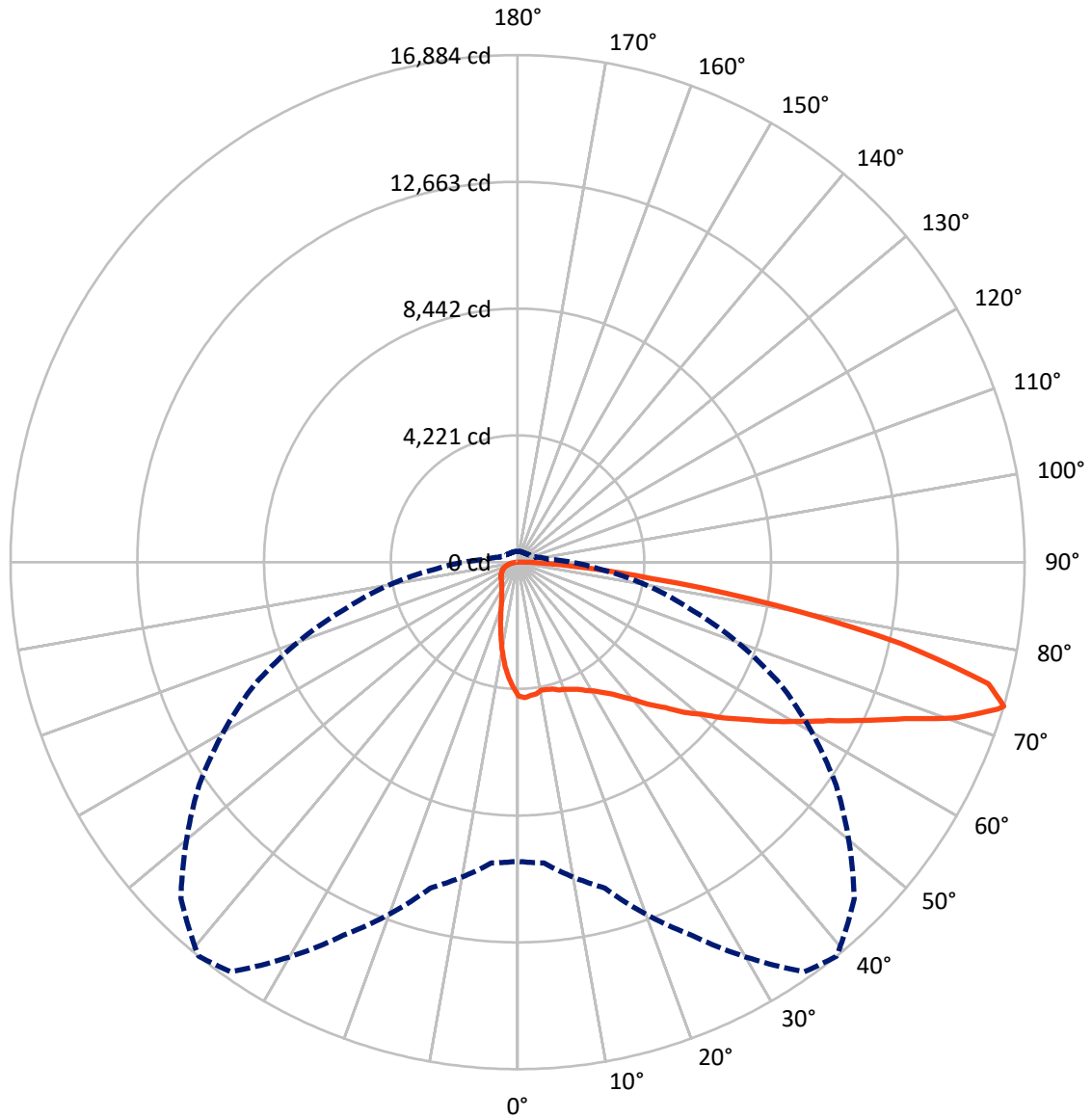
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P480830
CATALOG NUMBER: IFLD-M-SA4C-730-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P480830

CATALOG NUMBER: IFLD-M-SA4C-730-U-SL4

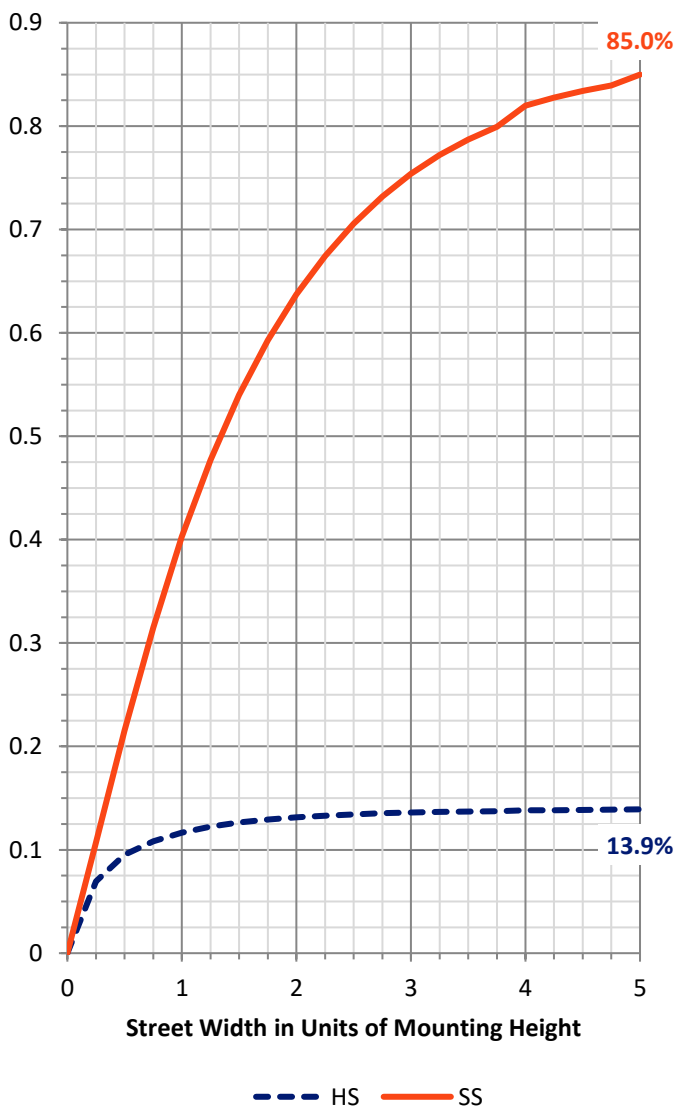
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3520.3	0.0	3520.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	21522.5	0.0	21522.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	25042.8	0.0	25042.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.0	1.5
10°-20°	983.7	3.9
20°-30°	1503.2	6.0
30°-40°	2191.8	8.8
40°-50°	3312.0	13.2
50°-60°	4796.0	19.2
60°-70°	6093.5	24.3
70°-80°	4939.7	19.7
80°-90°	835.8	3.3
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°	25042.8	100.0
0°-180°	25042.8	100.0

Coefficient of Utilization



REPORT NUMBER: P480830

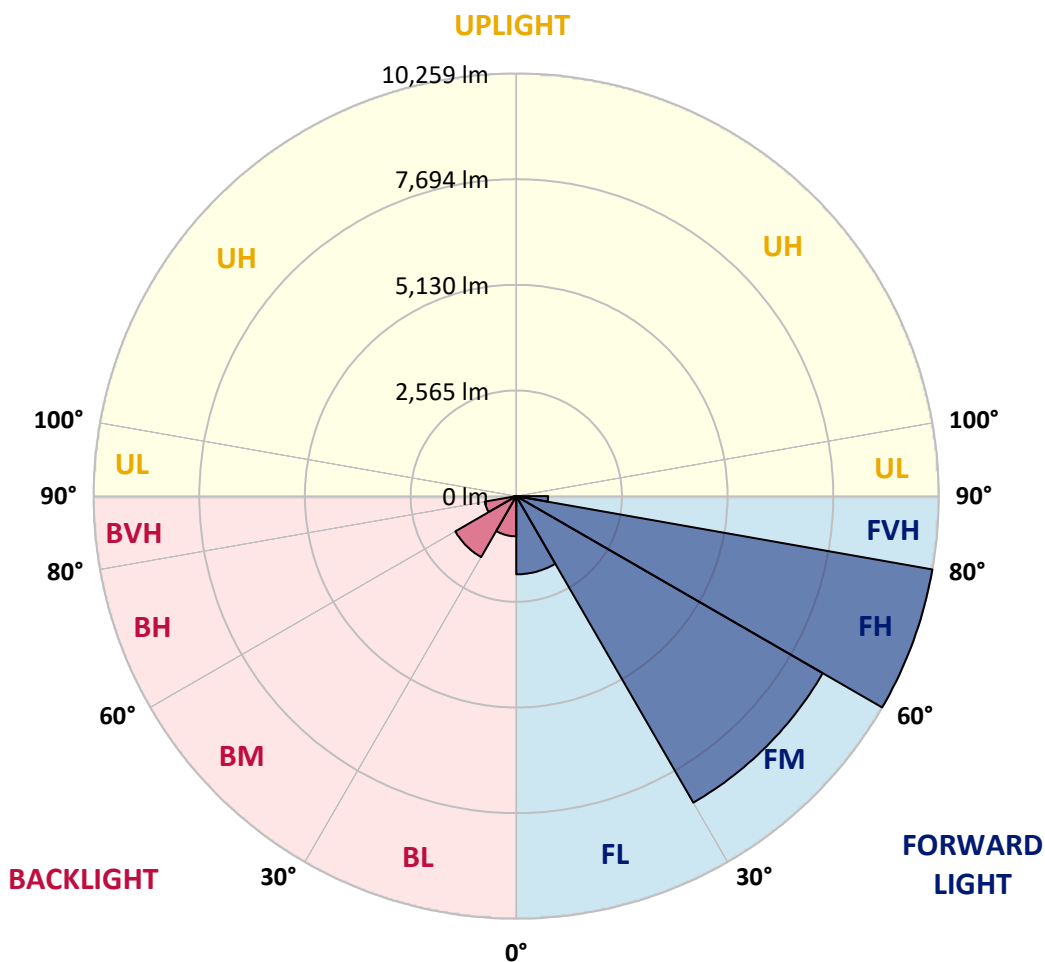
CATALOG NUMBER: IFLD-M-SA4C-730-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1897.7	7.6			
FM (30°-60°)	8591.3	34.3			
FH (60°-80°)	10259.0	41.0			G4/12000
FVH (80°-90°)	774.5	3.1			G5
BL (0°-30°)	976.3	3.9	B2/1000		
BM (30°-60°)	1708.5	6.8	B2/2500		
BH (60°-80°)	774.2	3.1	B2/1000		G2/1000
BVH (80°-90°)	61.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





REPORT NUMBER: P480830
 CATALOG NUMBER: IFLD-M-SA4C-730-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8
2.5°	4564.2	4516.6	4525.0	4508.2	4525.0	4519.4	4511.0	4469.0	4511.0	4469.0	4457.8
5°	4502.6	4502.6	4530.6	4488.6	4494.2	4466.2	4494.2	4463.4	4435.4	4365.3	4345.7
7.5°	4483.0	4480.2	4483.0	4424.1	4452.2	4435.4	4407.3	4373.7	4317.7	4272.8	4208.4
10°	4348.5	4376.5	4345.7	4362.5	4384.9	4334.5	4331.7	4323.3	4298.1	4239.2	4200.0
12.5°	4275.6	4323.3	4340.1	4326.1	4345.7	4351.3	4334.5	4323.3	4292.5	4253.2	4141.2
15°	4306.5	4250.4	4298.1	4390.5	4370.9	4384.9	4387.7	4376.5	4362.5	4289.7	4216.8
17.5°	4314.9	4281.2	4382.1	4401.7	4426.9	4477.4	4443.8	4441.0	4387.7	4337.3	4230.8
20°	4334.5	4320.5	4401.7	4505.4	4508.2	4516.6	4533.4	4491.4	4463.4	4376.5	4214.0
22.5°	4407.3	4455.0	4530.6	4575.4	4600.7	4606.3	4606.3	4522.2	4491.4	4421.3	4292.5
25°	4625.9	4575.4	4681.9	4735.2	4698.7	4690.3	4670.7	4595.1	4561.4	4499.8	4328.9
27.5°	4785.6	4782.8	4844.4	4917.3	4819.2	4838.8	4768.8	4746.4	4670.7	4637.1	4393.3
30°	5004.1	5065.8	5063.0	5085.4	4956.5	4978.9	4889.3	4847.2	4805.2	4824.8	4583.8
32.5°	5284.3	5261.9	5298.3	5281.5	5152.6	5172.2	5065.8	5001.3	5015.3	5074.2	4844.4
35°	5463.6	5441.2	5455.2	5455.2	5416.0	5393.6	5348.8	5264.7	5331.9	5441.2	5135.8
37.5°	5657.0	5685.0	5766.2	5749.4	5699.0	5699.0	5693.4	5634.5	5721.4	5990.4	5600.9
40°	5827.9	5903.5	5954.0	5987.6	6046.4	6046.4	6094.1	6060.4	6217.3	6648.8	6169.7
42.5°	6007.2	6010.0	6284.6	6309.8	6441.5	6497.5	6533.9	6562.0	6856.2	7338.1	6777.7
45°	6236.9	6251.0	6491.9	6685.2	6889.8	6909.4	7046.7	7139.1	7500.6	8091.8	7438.9
47.5°	6539.6	6522.7	6780.5	7088.7	7343.7	7478.2	7643.5	7744.4	8189.8	8909.9	8161.8
50°	6937.4	6887.0	7035.5	7520.2	7820.0	7968.5	8262.7	8430.8	8952.0	9691.6	8657.8
52.5°	7422.1	7338.1	7455.8	7985.3	8321.5	8621.3	8901.5	9089.2	9632.8	10296.9	9024.8
55°	7934.9	7761.2	7794.8	8478.4	8963.2	9246.2	9630.0	9826.1	10380.9	10840.4	9391.8
57.5°	8442.0	8332.7	8265.5	8952.0	9728.1	9999.9	10352.9	10607.9	11078.6	11322.3	9702.9
60°	8867.9	8839.9	8730.6	9686.0	10537.8	10770.4	11140.2	11297.1	11653.0	11767.8	9708.5
62.5°	9218.1	9122.9	9296.6	10277.2	11361.6	11624.9	12031.2	12045.2	12297.4	12045.2	9422.7
65°	9492.7	9498.3	9775.7	10991.7	12314.2	12703.7	13031.5	12995.0	12832.5	11879.9	8747.4
67.5°	9742.1	9848.6	10254.8	11776.2	13538.6	13905.7	14269.9	13788.0	12978.2	11106.6	7427.7
70°	9938.2	10044.7	10902.1	12731.7	14981.6	15519.5	15600.8	14101.8	12308.6	9408.7	5603.7
72.5°	9915.8	10109.1	11269.1	13493.8	16262.0	16727.1	16071.5	13219.2	10254.8	6559.2	3269.8
73°	9963.4	10058.7	11238.3	13706.7	16651.5	16884.0	15852.9	12941.8	9672.0	5883.9	2765.4
75°	9044.4	9366.6	10680.7	13359.3	16234.0	16192.0	14597.7	10784.4	6875.8	3090.5	1339.3
77.5°	6690.9	6895.4	8416.8	10986.1	13325.7	13056.7	11011.3	6892.6	3264.2	1146.0	722.9
80°	3269.8	3429.5	4460.6	6343.4	8713.8	8736.2	6833.7	3586.4	1398.1	647.2	493.1
82.5°	1633.5	1728.8	2143.4	2787.9	4286.9	4491.4	3465.9	2039.8	865.8	367.0	280.2
85°	1067.5	1134.8	1319.7	1364.5	1818.4	1919.3	1613.9	1591.5	563.2	198.9	227.0
87.5°	708.9	720.1	809.7	689.3	728.5	700.5	778.9	1003.1	165.3	84.1	61.6
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: P480830
 CATALOG NUMBER: IFLD-M-SA4C-730-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8	4457.8
2.5°	4443.8	4404.5	4362.5	4303.7	4261.6	4197.2	4138.4	4113.1	4107.5	4110.3	4082.3
5°	4328.9	4272.8	4188.8	4068.3	3998.3	3891.8	3802.1	3754.5	3704.1	3712.5	3690.1
7.5°	4169.2	4107.5	3978.6	3838.6	3664.8	3513.5	3429.5	3311.8	3244.6	3194.1	3222.1
10°	4118.7	4012.3	3818.9	3625.6	3356.6	3157.7	2964.4	2829.9	2737.4	2647.8	2687.0
12.5°	4093.5	3987.1	3718.1	3432.3	3084.9	2782.3	2510.5	2345.2	2213.5	2135.0	2165.8
15°	4071.1	3939.4	3622.8	3219.3	2829.9	2432.0	2126.6	1908.1	1782.0	1706.3	1714.7
17.5°	4101.9	3914.2	3482.7	3012.0	2549.7	2123.8	1784.8	1557.8	1429.0	1381.3	1370.1
20°	4071.1	3886.2	3345.4	2804.7	2269.5	1829.6	1504.6	1316.9	1227.2	1188.0	1179.6
22.5°	4082.3	3818.9	3202.5	2574.9	2008.9	1583.1	1316.9	1174.0	1103.9	1084.3	1089.9
25°	4135.6	3779.7	3059.6	2322.7	1751.2	1400.9	1196.4	1087.1	1036.7	1017.1	1022.7
27.5°	4174.8	3813.3	2930.7	2084.6	1532.6	1238.4	1095.5	1022.7	989.1	975.0	972.2
30°	4272.8	3832.9	2804.7	1871.6	1353.3	1132.0	1025.5	966.6	944.2	935.8	933.0
32.5°	4418.5	3869.4	2659.0	1675.5	1221.6	1031.1	969.4	919.0	913.4	905.0	907.8
35°	4656.7	3995.5	2496.5	1507.4	1095.5	963.8	910.6	877.0	877.0	877.0	885.4
37.5°	4998.5	4172.0	2350.8	1347.7	1014.3	905.0	860.2	849.0	843.4	851.8	857.4
40°	5438.4	4384.9	2233.1	1221.6	944.2	865.8	826.5	820.9	818.1	815.3	820.9
42.5°	5920.3	4656.7	2132.2	1123.5	893.8	823.7	795.7	790.1	778.9	784.5	792.9
45°	6399.5	4992.9	2042.6	1045.1	860.2	801.3	762.1	759.3	753.7	750.9	764.9
47.5°	6931.8	5323.5	2014.5	997.5	835.0	767.7	739.7	736.9	720.1	717.3	728.5
50°	7346.5	5567.3	2045.4	975.0	798.5	742.5	722.9	708.9	694.9	680.9	680.9
52.5°	7632.3	5735.4	2067.8	958.2	778.9	708.9	683.7	678.1	664.0	650.0	644.4
55°	7890.0	5836.3	2073.4	961.0	759.3	669.6	652.8	650.0	641.6	619.2	613.6
57.5°	7976.9	5794.3	1961.3	935.8	748.1	644.4	622.0	627.6	616.4	596.8	594.0
60°	7968.5	5502.9	1706.3	902.2	722.9	616.4	588.4	605.2	605.2	582.8	580.0
62.5°	7483.8	4830.4	1395.3	837.8	694.9	588.4	557.6	582.8	591.2	577.2	574.4
65°	6477.9	3933.8	1165.6	773.3	652.8	557.6	526.8	554.8	568.8	563.2	560.4
67.5°	5360.0	3009.2	969.4	689.3	599.6	515.5	490.3	509.9	518.3	521.1	523.9
70°	3788.1	2003.3	809.7	596.8	526.8	470.7	442.7	445.5	442.7	451.1	451.1
72.5°	2059.4	1154.4	658.4	507.1	453.9	409.1	389.5	375.4	375.4	372.6	372.6
73°	1762.4	1036.7	627.6	493.1	434.3	397.9	375.4	364.2	364.2	361.4	358.6
75°	989.1	759.3	538.0	423.1	375.4	347.4	330.6	313.8	311.0	311.0	311.0
77.5°	650.0	591.2	428.7	339.0	302.6	277.4	271.8	255.0	255.0	255.0	252.2
80°	487.5	465.1	330.6	257.8	232.6	212.9	207.3	196.1	193.3	182.1	184.9
82.5°	325.0	367.0	241.0	182.1	156.9	145.7	145.7	142.9	134.5	120.5	120.5
85°	257.8	299.8	173.7	112.1	92.5	78.5	81.3	78.5	75.7	61.6	58.8
87.5°	47.6	120.5	50.4	30.8	22.4	14.0	14.0	8.4	5.6	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)